

# **Kioskgifts version 1.1**

## **Operator manual**

**Revision 1.1**





## CONTENTS

1.1	DESCRIPTION.....	8
1.2	MAIN SERVICES .....	8
1.3	IMAGE RETOUCHING FUNCTIONS .....	9
1.4	KIOSK MODELS .....	9
1.5	SYSTEM USERS .....	10
1.6	TERMINOLOGY.....	10
1.7	MODES OF OPERATION.....	11
1.7.1	Stand-alone mode.....	11
1.7.2	Order Terminal (OT) mode .....	11
1.7.3	Combined mode.....	11
1.7.4	Kiosk Isle mode.....	11
2.1	LANGUAGE SELECTION FOR SET-UP AND INPUT PERIPHERALS.....	13
2.2	CONNECTIVITY – I: NETWORK SETTINGS.....	13
2.3	CONNECTIVITY – II: MODE OF OPERATION .....	14
2.4	CONNECTIVITY – III: PRODUCTION MACHINE .....	15
2.5	CONNECTIVITY – IV: CENTRALISING CONFIGURATION.....	16
2.6	SYSTEM INFORMATION – I: MACHINE NAME AND 'ALIAS'.....	16
2.7	SYSTEM INFORMATION – II: TIME, DATE AND REGIONAL SETTINGS .....	17
2.8	SYSTEM INFORMATION – III: STORE DETAILS .....	18
2.9	DELIVERY INSTRUCTIONS .....	18
2.10	FORMAT FILTER.....	19
2.11	REGISTER.....	20
2.12	CONFIGURATION AND FINISHING .....	20
4.1	GENERAL SETTINGS .....	25
4.1.1	Store details .....	25
4.1.2	General parameters .....	26
4.1.3	Languages .....	27
4.1.4	Devices .....	28
4.1.5	Users.....	34
4.1.6	Additional taxes.....	35
5.1	SCREEN SAVER .....	36
5.2	MAIN SCREEN .....	36
5.3	TERMS AND CONDITIONS .....	39
5.4	CHOOSING THE PHOTO SOURCE.....	40
5.4.1	Specific flow for photographs obtained from social networks.....	40
5.5	PHOTO LOADING OPTIONS.....	43
5.6	SERVICE PROCESSING .....	45

5.7	IMAGE RETOUCHING .....	45
5.7.1	Red eye reduction.....	46
5.7.2	Brightness and contrast .....	47
5.7.3	Sepia and black & white.....	48
5.7.4	Automatic level.....	49
5.7.5	Zoom and Crop.....	49
5.8	ORDER SUMMARY .....	50
5.9	CUSTOMER QUESTIONS .....	51
5.10	ORDER VALIDATION.....	51
5.11	ORDER PRODUCTION.....	52
5.12	REMOVING THE DEVICE .....	53
5.13	GOODBYE MESSAGE .....	54
6.1	'PRINTS' SERVICE.....	55
6.1.1	'Prints' service: work flow.....	56
6.1.2	'Prints' service administration: product creation .....	60
6.1.3	'Prints' service administration: editing prices .....	65
6.2	INSTANT PHOTO ALBUM.....	67
6.2.1	Instant Photo Album service: work flow .....	68
6.2.2	Instant Photo Album service administration: initial steps.....	78
6.2.3	Instant Photo Album service administration.....	81
6.2.4	Instant Photo Album theme management .....	84
6.3	'CALENDARS' SERVICE .....	86
6.3.1	Calendars: work flow.....	86
6.3.2	'Calendars' service administration: product creation .....	90
6.3.3	'Calendars' service administration: editing prices.....	91
6.3.4	'Calendars' service administration: Settings .....	91
6.4	EASYGIFTS ALBUM.....	92
6.4.1	EasyGifts Album Servicework flow .....	93
6.4.2	Create an EasyGifts Album in 6 steps. ....	94
6.4.3	'EasyGifts Album' service administration .....	103
6.4.4	Managing EasyGifts Album themes.....	108
6.5	DVD/CD BURNING.....	110
6.5.1	DVD/CD burning: work flow .....	110
6.5.2	'DVD/CD burning' service administration: product creation.....	111
6.5.3	'DVD/CD burning' service administration: editing prices .....	111
6.6	FRAMES AND GREETINGS CARDS.....	112
6.6.1	Frames and greetings cards: work flow .....	112
6.6.2	'Frames and Greetings' service administration: product creation.....	114
6.6.3	'Frames and Greetings' service administration: editing prices .....	114
6.6.4	'Frames and Greetings' service administration: Settings .....	114
6.7	COMPOSITIONS .....	116
6.7.1	Compositions: work flow .....	116
6.7.2	'Compositions' service administration: product creation.....	117
6.7.3	'Compositions' service administration: editing prices .....	117
6.8	COLLAGE .....	118



6.8.1	Collage: work flow .....	118
6.8.2	'Collage' service administration: product creation .....	120
6.8.3	'Collage' service administration: editing prices .....	120
6.8.4	'Collage' service administration: Settings .....	121
6.9	MOSAIC POSTER .....	122
6.9.1	Mosaic poster: work flow.....	122
6.9.2	'Mosaic Poster' service administration: product creation.....	123
6.9.3	'Mosaic Poster' service administration: editing prices .....	123
6.9.4	'Mosaic Poster' service administration: Settings .....	123
6.10	'KIOSKGIFTS ONLINE' SERVICE.....	125
6.10.1	'Kiosk gifts online' service: work flow .....	125
6.10.2	'Kiosk gifts online' service administration: product creation and price editing ....	127
6.10.3	When an order is not possible in the 'Kiosk gifts online' service: error codes ....	128
6.11	'PENDING ORDERS' SERVICE .....	130
6.11.1	'Pending orders' service: work flow .....	130
6.11.2	'Pending orders' service administration: general settings.....	132
6.12	CUSTOMISED PRODUCTS .....	133
6.12.1	Customised Service: work flow .....	134
6.12.2	'Customised' service administration: Gifts management tool. ....	136
7.1	INTRODUCTION.....	142
7.2	PHOTO ID PHOTOGRAPHS.....	142
7.2.1	'Photo ID' photographs workflow .....	143
7.2.2	'Photo ID' service administration: product creation .....	144
7.2.3	'Photo ID' service administration: editing prices .....	144
7.2.4	'Photo ID' service administration: general settings .....	144
8.1	TO REGISTER AND OBTAIN AN ACTIVATION KEY.....	146

ANNEX - Dispatcher  
ANNEX - Monitor  
ANNEX - PrintServer  
ANNEX - CD Burning  
ANNEX - DPSLab



# 1 Introduction

## 1.1 Description

Kioskgifts is the latest generation of MITSUBISHI ELECTRIC photo kiosks, offering a wide variety of digital image printing services. MITSUBISHI ELECTRIC's printing technology means its kiosks are fast, versatile and high quality.

Kioskgifts is a reliable, user-friendly system that is directly operated by the customer. The customer can order and receive the products while he or she waits when the unit is configured in stand-alone mode, although there are multiple settings and set-up options. The system also enables several Kioskgifts terminals to be connected to one or more main printing systems installed in the store or in remote labs.

The Kioskgifts applications use state-of-the-art screen presentation and interaction technologies, so the user finds the experience dynamic and easy to manage.

The customer's images can be read from varied sources, such as digital camera memory cards, mobile devices, DVD/CD, network devices, Internet, etc.

## 1.2 Main services

Kioskgifts does not only provide digital photograph development, but it also offers a range of digital photography services and functions, which are described below:

- Copies: photographs can be printed in different sizes.
- Calendars: yearly or monthly calendars, using different decorative themes as calendar backgrounds. Compatible with EasygiGifts Calendar®
- Photo books: automatic creation of photo albums. Compatible with EasyGifts Album® and Instant Photo Album.
- DVD/CD burning.
- Compositions: several printed images on one sheet, using pre-defined templates.
- Collage: several images creatively arranged on a chosen background or texture.
- Frames and greetings cards: the images are placed in decorative frames, with the option of adding text.
- Mosaic Poster: the image is cut into fragments to create a mosaic made up of several printed sheets.
- Photo ID: provides a professional print service for passport photos, IDs, etc., that should be controlled by the store operator.
- Customised Photo Products: gifts that include customer photographs.

### 1.3 Image retouching functions

- Crop: the photograph can be cropped to remove unwanted sections, or an area of the image can be selected for printing.
- Rotate: the photograph can be rotated a pre-set number of degrees so that it can be viewed better on screen.
- Red-eye reduction: the red-eye effect in photographs can automatically be removed.
- Brightness and contrast adjustment.
- Automatic level adjustments: to automatically improve dark images or ones with low contrast.
- Black & white and sepia effects.

### 1.4 Kiosk models

There are 2 hardware models that support the Kiosk gifts software. The differences between them can be seen in each product's catalogue. Specifications may vary without prior notice from the manufacturer.

- PT7000 (only versions of hardware 4 or above):
- PT6000 (only versions of hardware 4 with Intel® Celeron Dual Core processor or above):



PT7000



PT6000

## 1.5 System Users

There are different Kiosk users depending on the type of operation they require from the unit. There are 3 main types of users:

### Customer User

This is the end user who uses the Kiosk gifts self-service system to purchase its services.

### Operator User

The operator user has permission to access the unit's maintenance and can validate pending orders.

### Supervisor User

The supervisor user is one of the five operator users. He or she is an experienced operator, and has the authority to modify the system's settings, active products, prices, etc.

## 1.6 Terminology

### Service

Each of the main icons that appear on the Kiosk gifts main screen is identified as a service: calendars, prints, greetings cards, mosaic poster, etc. These are the different product groups on offer.

### Order

Every time a user accesses the Kiosk, he or she requests a series of services (prints, calendars, albums) that, in turn, generate a series of jobs (10x15 print, 13x18 print, 15x20 calendar, etc.). The services and jobs that are paid for in one single transaction make up an order.

### Service Module

This refers to any software module specialising in carrying out a specific type of job, whether it be sublimation printing, DVD/CD burning, sending to other systems via a network or Internet, etc.

The main service modules are:

- **PRINTS (DPSPrintserver).** It sends the jobs that are intended for the MITSUBISHI ELECTRIC sublimation printers, which share many features and communication protocols.
- **LABS (DPSLab).** It manages printing jobs that are intended for systems using technology that is not compatible with MITSUBISHI ELECTRIC machines, as well as any MITSUBISHI ELECTRIC unit whose features do not meet usual standards. It is also characterised by its capacity to send orders via Internet to remote production centres.
- **BURNS (DPSBurns)** It manages DVD/CD burning

### Dispatcher

Software module that centralises the following activities:

- 1) Receiving the orders generated by the applications.
- 2) Validating the orders in order to add them to the queue. This validation takes place, for instance, when the operator enters the password before processing an order, or when the end customer selects the 'Pending Orders' service on the main screen and enters the validation code.
- 3) Informing of the progress and status of orders being processed.

4) Informing of the status of the different service modules, which in turn manage the output devices (printers, DVD burner, etc.).

In the Kioskgifts, this module is transparent to the end user. The operator can access it if he or she needs to solve any problems with the orders or peripherals that are being processed.

When Kioskgifts is configured in OT mode, there is no active Dispatcher in the machine itself. All the OTs share the same Dispatcher that is located in the production machine.

## **1.7 Modes of operation**

As a terminal, the Kiosk can be configured in 4 different modes: stand-alone (with its own printers), order terminal OT (sends the jobs to a main printing system in the store), combined (a combination of the two previous modes) and Kiosk isle mode, where one of the Kiosks (the production Kiosk) is capable of producing the orders coming from all the other units.

### **1.7.1 Stand-alone mode**

A Kiosk in stand-alone mode is a machine that requires no attention from staff. It has its own printers.

### **1.7.2 Order Terminal (OT) mode**

In this mode, the machine has no means of production. These are found in a production machine within the store and networked to the terminal that enables the services to be processed exactly as with the stand-alone mode, except that there is no step for validating the order and no production phase: the terminal is left free for the next customer.

The order must be validated at the production machine, whether it be a Click5000 or a stand-alone Kioskgifts with its own production means (in isle mode).

### **1.7.3 Combined mode**

In the combined mode, the Kioskgifts basically acts as it would in the stand-alone mode but extends its output options to another additional production machine.

In this mode, the Kioskgifts machine sends its orders to 2 dispatchers at the same time: one internal and one external.

### **1.7.4 Kiosk Isle mode**

In Kiosk isle mode, all of the kiosks work as an OT terminal except one, which acts as a stand-alone terminal and a production centre for all the other units at the same time.

The installation has the following components:

- Several order terminals in the customer area.
- A stand-alone terminal in the customer area. With optional barcode reader.
- A ticket printer networked to other units and located at the payment counter, in addition to the ticket printers in each kiosk.

The work flow is as follows:

- 1) The customer goes to any of the terminals (OT or stand-alone) and creates his or her order.
- 2) When it's time to validate the order, the normal ticket is printed out at the terminal in question, with the order ID and the amount to pay, among other information. Simultaneously a

validation ticket is printed out from the printer installed at the payment counter, with an exclusive ID for that order (in numerical format and in barcode).

3) The customer goes to the counter to pay for his or her order. Once payment has been made, the customer will be given the ticket with the order ID. The customer will be told to go to the stand-alone terminal and choose the 'Pending Orders' service.

4) The customer chooses 'Pending Orders' on the production machine, and when he or she comes to the order validation stage, they can either use the barcode scanner or type in the numerical code manually.

5) The order will automatically start processing.

## **2 First boot: configuration wizard**

When the machine is switched on for the first time, the configuration wizard will start. It is important to carefully follow all the steps in order to configure all the parameters in the shortest possible period of time.

If the configuration process is irregularly interrupted, the wizard will appear again the next time the machine is switched on.

If you want to start working with the Kiosk gifts unit in stand-alone mode, i.e. working with the printers that may be connected to that machine and with a very basic configuration, all you have to do is abort the process by pressing 'Back' on the first wizard screen. In this case, if you want to configure the system parameters in detail, you can do so by using the administration screens that will be explained in the following chapters.

### **NOTE**

It is recommended to read the first sections of the manual to understand the installation and interconnection possibilities of different units, as well as other basic concepts that appear during installation.

Before configuring the machine for the first time, you should also follow the assembly and connection instructions: connecting the different printers and loading consumable material, connecting other peripherals, IP network cables where necessary, and switching on the Kiosk gifts itself.

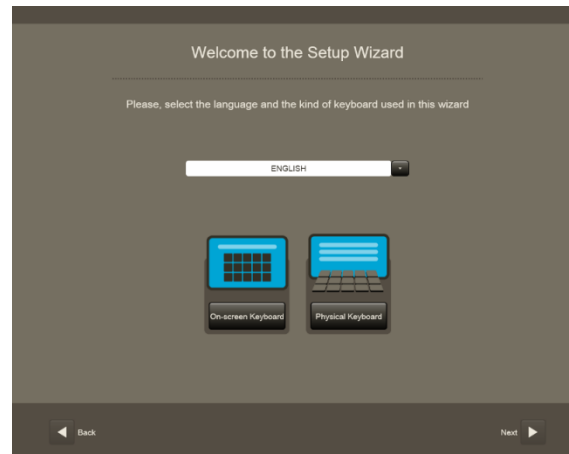
In the following sections, you will see a step-by-step explanation of how the configuration wizard works.



## 2.1 Language selection for set-up and input peripherals

In the first configuration wizard screen, you are asked to select the language you wish to use during the set-up process. This selection does not set the language in which the machine will later work; it is simply for the operator's convenience during the set-up process.

The operator will also be asked if he or she has a physical keyboard or just a touch screen, in which case a virtual keyboard will appear on screen to enable text writing where necessary.



## 2.2 Connectivity – I: network settings

In the second step, you are asked to type in the terminal number (values from 1 to N).

This value, which numerically identifies each Kiosk installed in the store, is also used for:

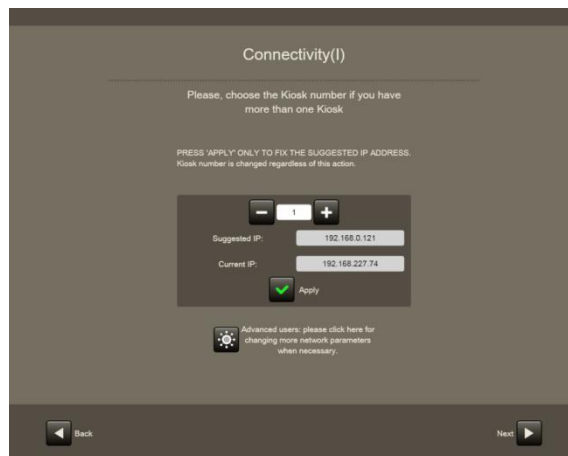
Automatically changing the fourth figure of the IP address for machines that are connected through a network. The default IP address that comes with the machines is 192.168.0.200. The IP can only be changed by pressing 'Apply'.

Automatically changing the machine's Bluetooth ID to avoid conflict with other machines in the same store.

Automatically changing the initial order number, again to avoid conflicts when orders from different machines are sent to the same central production system. So, if the Kiosk is numbered 1, 2, 3, etc., the initial order that the production system receives will be 10000, 20000, or 30000, and so on.

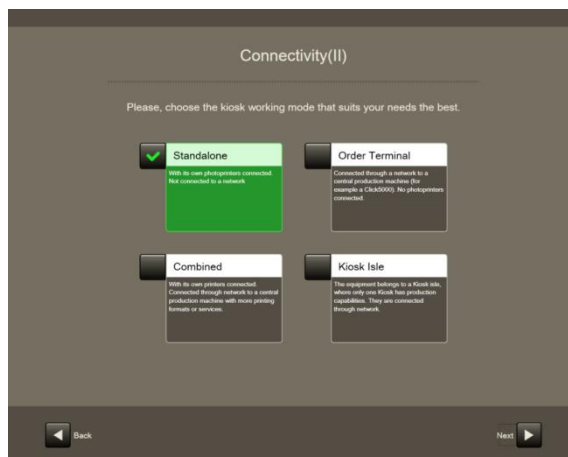
This is why it is important not to repeat this number for different Kiosks within the same store, even when they are not interconnected.

If the store's current IP installation requires more parameters to be configured, such as the netmask or the gateway, press the button indicated for changing more network parameters.



## 2.3 Connectivity – II: mode of operation

In this step, you must choose between the four possible modes of operation specified in the 'Modes of Operation' chapter in this manual.



The choice of one of them will automatically set the following, among other things:

- Which software modules have to automatically start up in the machine, according to the mode of operation.
- The default production machine for each one of the products automatically created for printing services in the wizard itself.

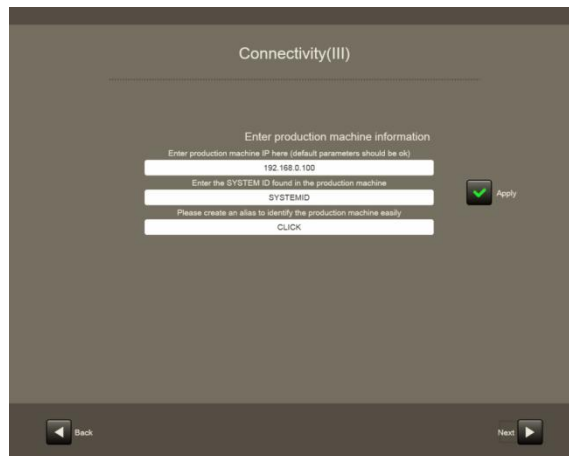
## 2.4 Connectivity – III: production machine

If the Kiosk isle mode has been chosen, we will be asked if our unit is the isle's production machine or an OT. If our machine has not been selected as the production machine, or if the Combined or OT modes have been previously chosen directly, you will now be asked to type in the production machine's connection details:

IP address for the network connection (the default setting is the usual address for a Click5000).

SYSTEMID for the production unit: it is important to type this in correctly as this is the reference that unmistakably identifies the machine.

The alias may be any name that helps to easily identify the unit. It is recommended that short names are used.



The screenshot shows a web interface titled "Connectivity(III)". Below the title is a section labeled "Enter production machine information". This section contains three input fields with the following prompts: "Enter production machine IP here (default parameters should be ok)", "Enter the SYSTEM ID found in the production machine", and "Please create an alias to identify the production machine easily". The first field contains the text "192.168.0.100", the second contains "SYSTEMID", and the third contains "CLICK". To the right of the input fields is a green checkmark icon and the word "Apply". At the bottom of the screen are two buttons: "Back" on the left and "Next" on the right.

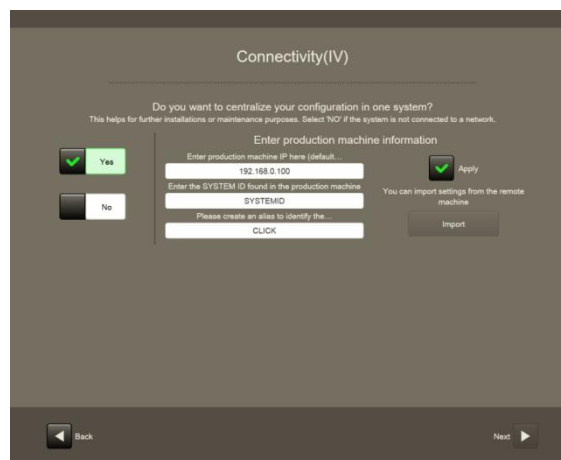
In this step, the first Dispatcher is created in the database. In the equipment configuration, you have the option to add different production machines at a later date.

## 2.5 Connectivity – IV: centralising configuration

In this step you will be asked if at some point you would like to save the system configuration (including created products and prices) in a local network machine (hereinafter, 'central repository') should you wish to connect it to the equipment in the future.

It is important to point out that the central repository does not make back-up copies of each of the units connected to the network; the content of the repository is made up of all the configuration data that is common to all of said units. For this reason, if at any time you decide to update the central repository data from one of the units in the network, this data will also change for any other unit that at any time requests updating (always manually).

Should you decide to work in this way, the necessary data will be requested in order to connect to the central repository. When you press 'Apply', a connection test will be made, verifying the existence of paths and data files in the central unit. If the verification is correct, the 'Import' button will be activated. This means that you can import the data from the central repository to the current unit (if the former already exists) at that precise moment.



## 2.6 System information – I: machine name and 'Alias'

The name of the machine must be typed in below. This will change the machine name in the operating system and it will also identify the machine in the Flexilab system (licences for software extensions, connection and register in our servers, etc.).

These instructions must be followed carefully:

Three characters are shown by default in the machine name field. You only need to add 5 digits more, which will be the serial number found on the label at the back of the unit.

The 'Alias' should be a short name that you can use to easily identify this machine in settings screens, for monitoring order production, etc.

This name will also be used to identify the unit's Bluetooth® device: It is important that each Kiosk in the store has its own ID to avoid confusion when a customer sends photographs from his or her mobile device via Bluetooth® to the Kiosk he or she is working with at that time, and not to any other Kiosk in the network.

A simple name is suggested by default followed by the Kiosk number that has been typed in at an earlier stage. The name could be maintained as 'Kiosk1', 'Kiosk2', etc.

SystemInformation(I)

Kiosk name / Machine name

Enter the kiosk name in the next field. The kiosk name is composed by the model (3 digits) + Serial Number (5 digits) (ex: KT000001 : 8 digits). You will find the serial number on the label on the back side of this kiosk.

KT000095

Kiosk alias / Bluetooth name

Please, enter Kiosk alias and Bluetooth name and be sure that it is different from the rest of your machines.  
Proposed name uses current Kiosk number, selected before in this wizard.

Kiosk1

1 2 3 4 5 6 7 8 9 0 ? ! ←  
→ q w e r t y u i o p \ "  
a s d f g h j k l / \* - \_  
aA z x c v b n m , . ; : ' " " others...

Back Next

## 2.7 System information – II: Time, date and regional settings

If the time and date settings shown are not in line with the real settings, they can be changed here.

For the regional settings (currency used, units of measurement, decimal format, etc.), you need to select the country in which the unit is operating.

System Information(II)

Time and date

(18:03) (22/10/2010) [dd/MM/yyyy]

Set

Click on "NEXT" if you want to change the time settings shown.

Regional Settings

Your system will use this language by default

English (United Kingdom)

Customize

Code: en-GB  
Date format: 22/10/2010  
Currency format: €359,875.14  
Measure: CENTIMETERS

For changing currency symbol, date format, etc., please press "Customize" button.

Back Next

## 2.8 System information – III: Store details

In this step you can register the store details.

This information is shown on the ticket. This is also used to register the unit in the MITSUBISHI ELECTRIC list of servers.

System Information(III)

Please fill carefully your shop information, since this could be used in future installations of additional systems and online registration.

Shop name	<input type="text"/>	Fiscal ID	<input type="text"/>
Address	<input type="text"/>	Country	UNITED KINGDOM
Address number	<input type="text"/>	City	<input type="text"/>
Province	<input type="text"/>	Zip code	<input type="text"/>
Owner	<input type="text"/>	Telephone number	<input type="text"/>
Distributor	<input type="text"/>	Email address	<input type="text"/>

1 2 3 4 5 6 7 8 9 0 ? ! ←  
→ q w e r t y u i o p \ " ' <br> a s d f g h j k l / \* - \_ <br> aA z x c v b n m , . ; : < > <br> others...

Back Next

## 2.9 Delivery instructions

Due to the diversity of production destinations for each product selected from the range of services, you need to give the customer some basic on-screen information regarding the pick-up point for each product.

There will be some products that the customer can pick up at the Kiosk itself, and there will be others that the customer will need to pick up at the counter or request information regarding their collection.

The general indications that are valid in most cases are shown by default.

You do not have to give detailed instructions to the operator. This so the operator to have a brief reference for each product in the lists of settings, prices, etc., and will be able to easily identify each product.

In case of doubt, you should copy the content of the phrase for the end customer in the field for the operator.

Default delivery instructions

Delivery instructions for the most common photoproducts depending on kiosk working mode (standalone, connected to a central production machine...)

Operator short description for products produced in Kiosk

KIOSK

Delivery instructions for products produced in Kiosk

KIOSK

Operator short description for products produced outside Kiosk

CLICK

Delivery instructions for products produced outside Kiosk

CLICK

Back Next

## 2.10 Format filter

When the job options that have been configured to date indicate that the unit has a production capacity in the store (e.g. stand-alone or combined mode), a form will be shown in which you can select the printer models or printing formats that you wish to offer.

What you are actually doing is directly filtering the formats published by the PRINTS service module, but you can only do this when the module to be used is the one that is installed in the unit itself. That is why this form only appears when the aforementioned conditions are met.

This helps to reduce the long list of products that will be created by default when the set-up is completed, and it also reduces the list of available formats when editing or adding a new product.

When you mark a specific format, it will remain 'visible', whereas if you unmark it, it will not be published by the PRINTS module.

Published printsizes					
Standard	CPD70/CPD707	HG	CP3800	CP3020	Plotter
<input checked="" type="checkbox"/> 10x15	<input checked="" type="checkbox"/> 10x15	<input checked="" type="checkbox"/> 10x15(x2)HG	<input checked="" type="checkbox"/> 20x10(x2)H	<input type="checkbox"/> 20x25	<input type="checkbox"/> 30x60
<input type="checkbox"/> 10x15(x2)	<input checked="" type="checkbox"/> 10x15(x2)_A5	<input checked="" type="checkbox"/> 10x15HG	<input type="checkbox"/> 20x10(x3)H	<input type="checkbox"/> 20x30	<input type="checkbox"/> 40x30
<input type="checkbox"/> 11.5x15(x2)	<input checked="" type="checkbox"/> 13x18	<input type="checkbox"/> 11.5x15(x2)HG	<input checked="" type="checkbox"/> 20x13(x2)H		<input type="checkbox"/> 40x60
<input checked="" type="checkbox"/> 13x18	<input checked="" type="checkbox"/> 15x20	<input type="checkbox"/> 13x18HG	<input type="checkbox"/> 20x13(x2)LH		
<input type="checkbox"/> 13x18W	<input checked="" type="checkbox"/> 9x13	<input type="checkbox"/> 13x18WHG	<input checked="" type="checkbox"/> 20x15(x2)H		
<input checked="" type="checkbox"/> 15x20		<input type="checkbox"/> 15x20HG	<input checked="" type="checkbox"/> 20x25H		
<input type="checkbox"/> 15x21		<input type="checkbox"/> 15x21HG	<input checked="" type="checkbox"/> 20x30H		
<input type="checkbox"/> 15x23		<input checked="" type="checkbox"/> 15x23HG			
<input type="checkbox"/> 15x30		<input type="checkbox"/> 15x30HG			
<input type="checkbox"/> 15x46		<input type="checkbox"/> 15x46HG			
<input type="checkbox"/> 15x5.1(x2)		<input type="checkbox"/> 15x5.1(x2)HG			
<input type="checkbox"/> 15x5.5(x4)		<input type="checkbox"/> 15x5.5(x4)HG			
<input type="checkbox"/> 15x7.6(x3)		<input type="checkbox"/> 15x7.6(x3)HG			
<input checked="" type="checkbox"/> 9x13		<input type="checkbox"/> 9x13HG			

Close

### NOTE

After this step you will need to give the system some time so that the PRINTS module can correctly publish the new list. For this reason it is recommended that you do not jump to the last step of the wizard after completing the aforementioned step.

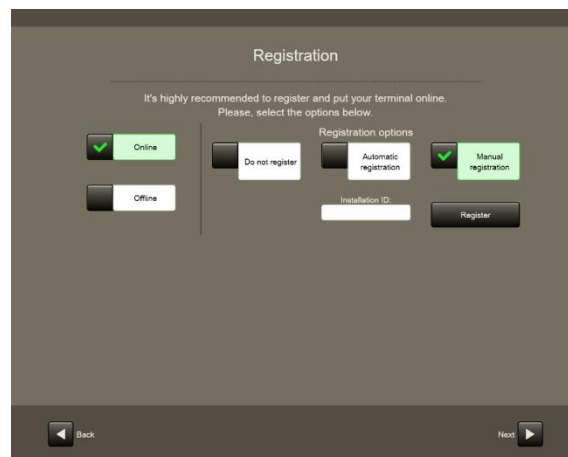
## 2.11 Register

If you decide to connect the unit to the MITSUBISHI ELECTRIC servers, it is recommended that you select the ON-LINE option.

If you also wish to centralise the production details for the different units in different locations, or register the units for new licences, etc., the simplest way is to also register the unit.

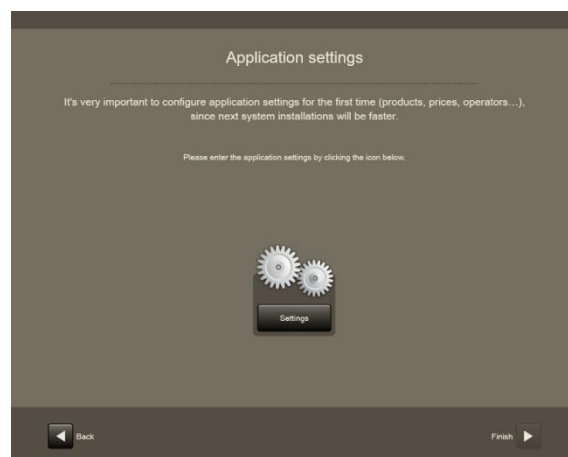
Registration can be done manually or automatically: for manual registration, a registration key is required that is facilitated by the staff installer or product supplier. This key connects the current unit with a group of units that have previously been registered in the servers.

The automatic key registers the unit in a common group that is not related to any corporation or chain.



## 2.12 Configuration and Finishing

Throughout the configuration wizard process, certain information has been introduced that is necessary for the system to work correctly, whichever the selected Kiosk gifts mode of operation.



It's possible to now start working with the unit, but it is also necessary to make a selection of all the products that have been created automatically, and, for example, set the prices for those products.

To do so, you must press the Configuration button and check anything that may need to be changed. The content of these screens is explained in detail over the following chapters.





The wizard will detect that you have entered Configuration. If you go back to the wizard screen again using the 'Back' button, you can press the 'Finish' button, even if you have not made any changes in the configuration.

When you finish, the wizard will restart the unit. Once the unit has restarted, the system will be ready to start work.

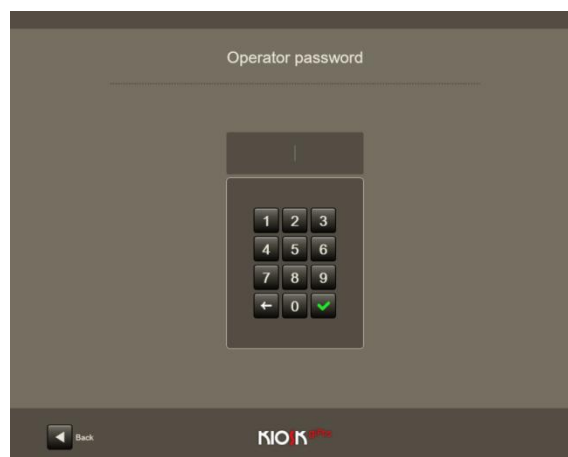
### 3 Service screen

To access the system's service functions, such as correctly switching off the unit, visualising the status of orders and the status of the service processing devices that are connected to the unit, etc., you must use the service screen.

This screen can be accessed by the supervisor user or any of the operator users, without distinction. To do so, you have to press on the upper left and upper right corners of the main screen, in this order.



A numerical keypad will appear on screen for you to type in the password.



The default password in new units is 123 for the supervisor and blank for the operators.

It is recommended that you change the operator password to prevent the end customer from accidentally accessing the service screen, and you should also change the supervisor password to increase security and prevent different users from changing the system's configuration, such as the list of active products, their prices, etc.



Depending on the identified user, access to the system configuration will also appear available on the service screen, a function that is reserved for the exclusive use of supervisor users.

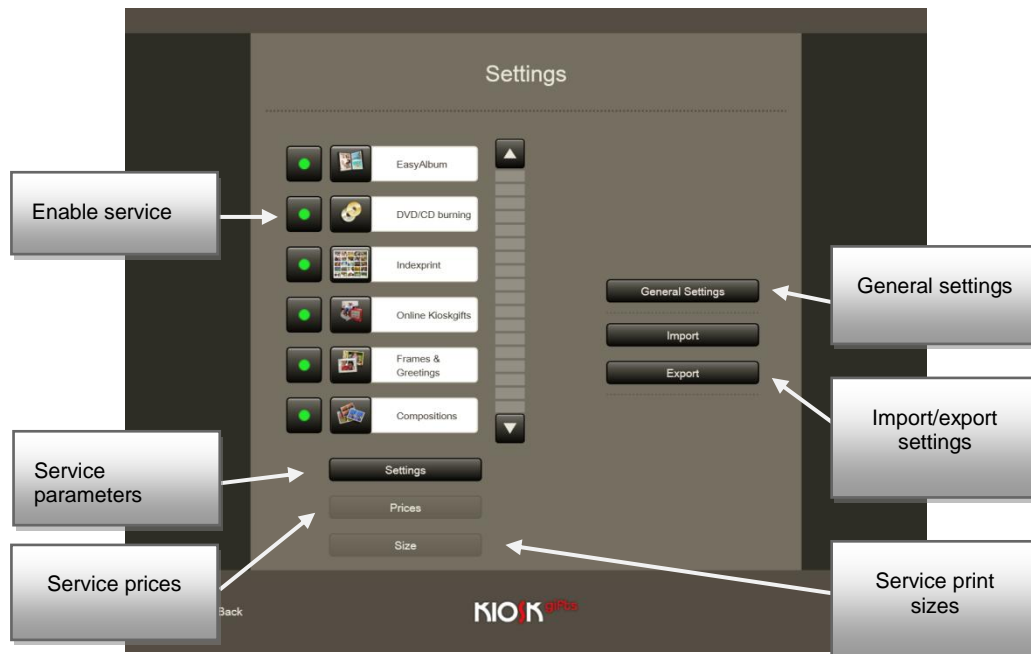
The service screen gives access to the following functions:

- Settings (only the supervisor user)
- DispatcherControl module for order production and production devices
- MonitorModule designed to start applications and other technical functions
- Statistics. Remote support. If your installation allows it, using this option will give technical support access to your machine; consult your dealer for more information.
- Operator mode. This option sets the kiosk to operator mode (see the section on Operator services for more information)
- Visualisation of the system parameters: software version, current user, SYSTEM\_ID, and Kiosk 'Alias'
- Shut-down button

#### NOTE

To switch off the system, always access this screen and press the shut-down button. Otherwise, you could damage the equipment's performance or even its operating system.

## 4 Settings screens



The Settings screen can only be accessed by the supervisor user, and includes all of these options.

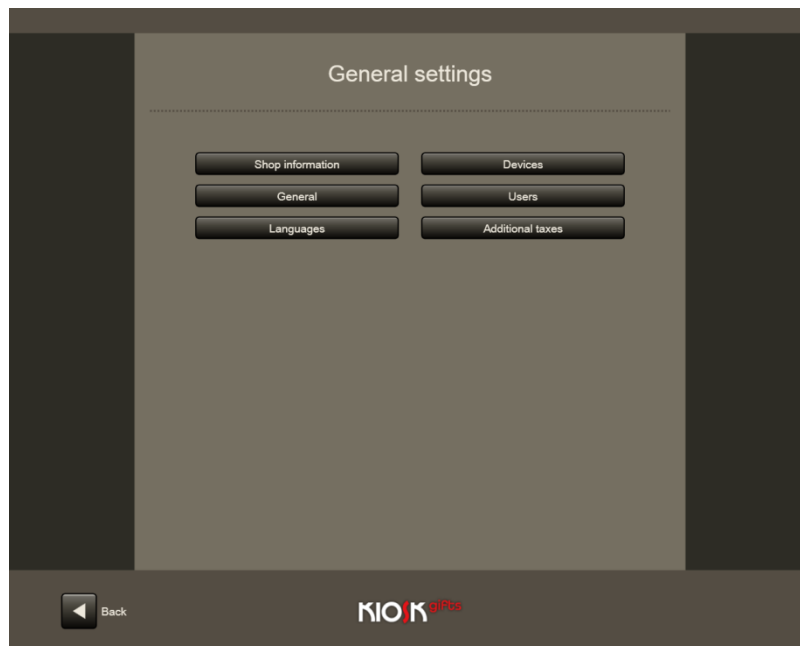
In the main panel on the left, you can enable and disable each of the services offered by the unit by pressing the button to the left of each one.

Depending on the service you have selected, you may access the particular settings for that service, the prices of the products it offers, and the settings for the associated printing sizes. Detailed information about these functions for each service is explained in the corresponding chapters in this manual.

On the right you will find access to the system's general settings and their import and export functions.

## 4.1 General settings

When you press the 'General Settings' button, the following screen will appear.



From this page you can configure:

- The store details
- Other general parameters
- Kiosk languages
- Devices connected to the Kiosk that are not production mechanisms: digital card reader, Bluetooth, network folder, DVD/CD, etc.
- System users
- Additional taxes

### 4.1.1 Store details

Here you can change the details that identify the store, such as the name, address, telephone number, fiscal ID and web page.

You can also change the Kiosk gifts logo for another that identifies the store or chain. This logo appears on the ticket that is given to the customer, on the index copy product, and on the back of the instant photo album product.

The details that appear are the system's default details or those that have been indicated during the configuration stage, except for the store logo, which can only be changed here.

### 4.1.2 General parameters

General

Inactivity time

Closing session countdown 30

Inactivity warning time 120

Taxes & discounts

Tax value 18

Order options

First order number 10000

Dynamic banner options

Refresh time 7

Kiosk idle mode ☐

Silent printing ☐

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KIOK gifts

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#### 4.1.2.1 Inactivity control.

- Inactivity warning time.

This is the maximum time the customer is allowed without touching the screen. After this time has passed, the system will assume the customer has left the unit in its current state and a message will appear on-screen requesting interaction with the Kiosk.

- Inactivity countdown.

This is the time given to the customer to respond after the inactivity time has expired. Once this time has passed, the Kiosk gifts unit will cancel the session and the order that the customer was preparing, and return to the main screen.

If the customer leaves his or her photo medium in the machine, a message will appear requesting said medium be removed. In the event there is no reply to this request, the staff may unlock the unit by pressing on the two top corners of the screen.

#### 4.1.2.2 Order options

- First order number

To avoid conflict with other terminals connected to the same production unit, it is important to set an initial order number that is different for each terminal. This way, the orders in each terminal will belong to a different range: 10000, 20000, 30000, etc.

The order numbers will be generated cyclically: once they reach 99999 they will go back to 000001.

#### 4.1.2.3 Kiosk isle mode

This option must be marked if the unit forms part of a Kiosk isle. This way, the unit will print the order validation code on the shared printer located at the payment counter.

#### 4.1.2.4 Taxes and discounts

- Tax value

The additional tax values (VAT) that appear on the ticket are entered here. This value is not used in calculating the ticket: the prices must include their relevant taxes.

#### 4.1.2.5 Dynamic banner options

- Refresh time.

This option enables you to vary the time interval for displaying the images belonging to the advertising banner that is shown in the longer Kiosk gifts processes. It may not be set below a given value.

#### 4.1.2.6 Silent printing mode

If this mode is activated, the services in stand-alone mode take place in the background. So, for example, while one customer's services are being printed out, the next customer can be using the Kiosk to create his or her orders.

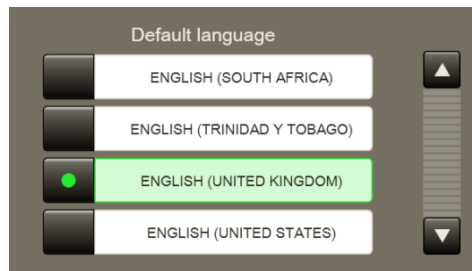
This mode requires physical installation that meets certain parameters. It is recommended that the products that are being printed should be directed towards the operator zone when they come out in order to respect each customer's privacy and ensure a smooth work flow in the store.

### 4.1.3 Languages



This screen enables you to set the languages to be used in Kiosk gifts. It is split into two parts to differentiate the language Kiosk gifts will use at an operator level (for the administration screens, default system language, etc.) and the languages available to the customer.

- Top section: The language Kioskgifts will use for the contents of the operator screens and for printing tickets will be defined here.

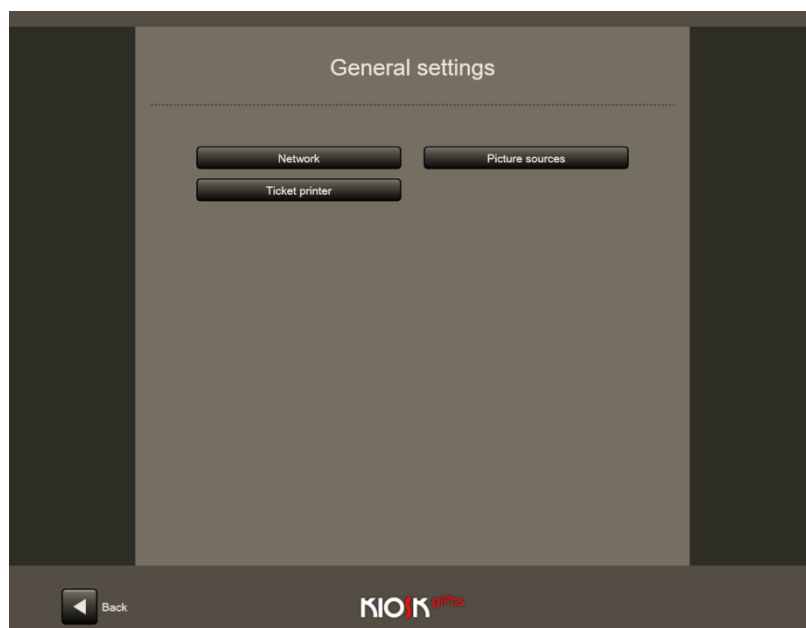


- Bottom section: Here you will find a list of the languages that are available to the customers. The button shown next to the language name enables or disables that language.

The languages can be listed according to the administrator's preferences when displayed on the Kioskgifts start screen. To do so, select the language that you want to move by pressing directly onto the name, and then move it up or down by using the arrows on the left. The language that is placed highest will be the first on the left of the main screen.



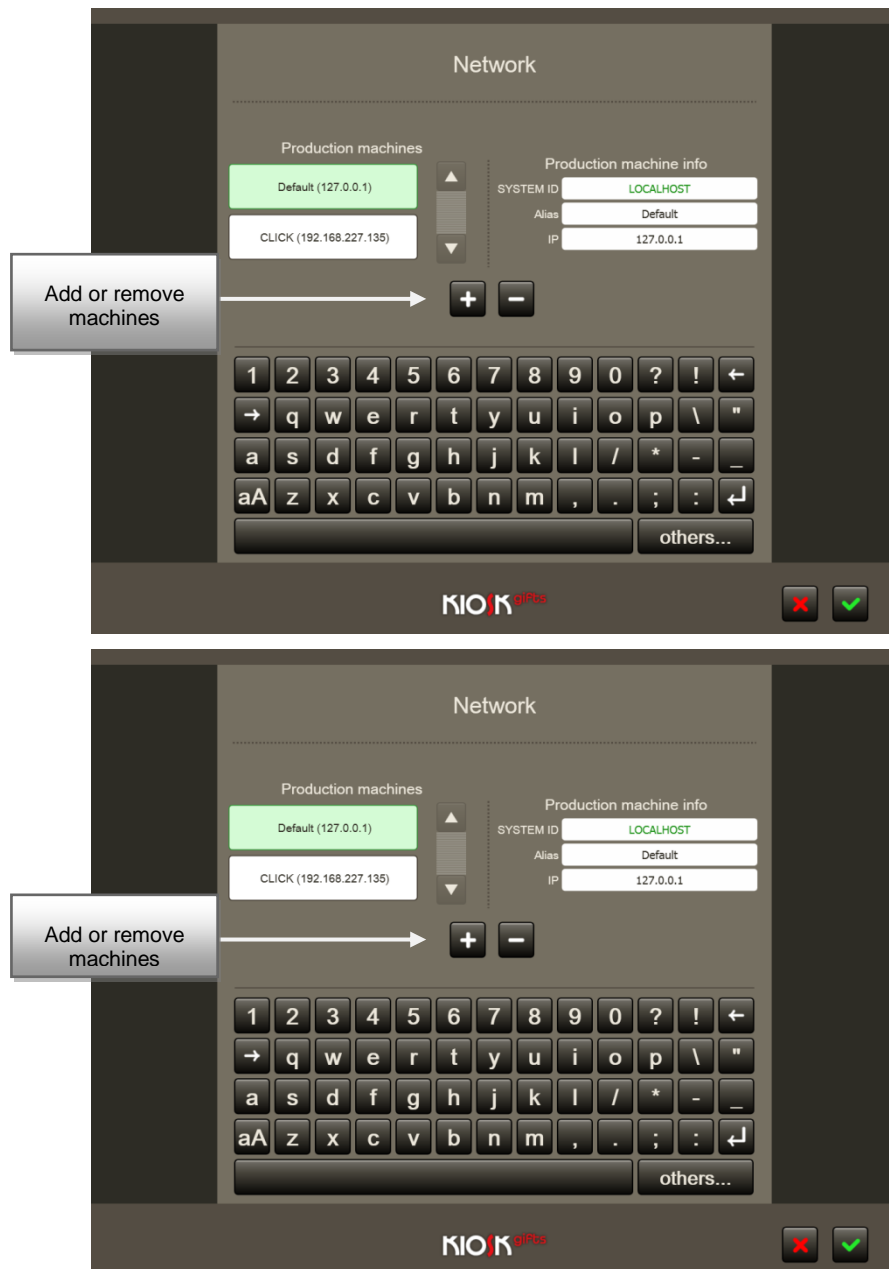
#### 4.1.4 Devices



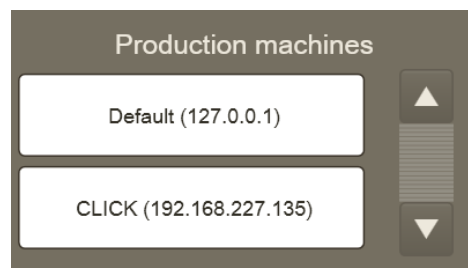
This is the screen where all the devices that may be personalised by the user can be configured: network connection, digital photo input sources and ticket printer.



#### 4.1.4.1 Network



In this section you can configure any possible production machines that are going to be used in KioskglRbs.



On the left of the screen there is a list of KioskglRbs production machines. If you click on any of them you will see the details on the right of the screen: SYSTEM ID, alias and IP address

Production machine info

SYSTEM ID	LOCALHOST
Alias	Default
IP	127.0.0.1

By using the '+'/'-' buttons, you can add a new production machine from the list, or remove the currently selected production machine.

#### 4.1.4.2 Digital photo sources



The photo sources configuration screen allows you to enable or disable sources, and where necessary, you can set the relative system path.



The disabled photo sources are not shown on the source selection screen in the Kiosk gifts flow.

There are also certain applications that may decide whether or not to accept all the sources or just some of them.

The system automatically searches for removable devices, but in the case of USB devices, certain devices are not detected as such, and are listed as local disk drives. So, an alternative path is specified by default when a removable device is not found, ('F:\'). You may find that in certain equipment, the system uses a different letter in these circumstances. In this case, you should change the default letter for the one allocated by the system.

#### 4.1.4.3 Ticket printer

The screenshot shows the 'Ticket printer' configuration window. It includes fields for 'Ticket type' (ProductBarcode), 'Barcode type' (EAN13), 'Additional copies' (0), and 'Ticket Printer' (Star TSP100 Cutter (TSP143)). There are also buttons for 'Barcode Settings', 'Ticket preview', 'Status checking', 'Validation ticket', and 'Validation Ticket Printer'. A full QWERTY keyboard is displayed for input, along with a status bar at the bottom showing the KIOIK logo and error/success indicators.

##### 4.1.4.3.1 Ticket type

You can choose the type of ticket you want to use.

NoBarcode: It includes the standard ticket content without showing any kind of barcode.

OrderBarcode: A barcode is added to the basic ticket content, with the order details included.

- Application reference
- Customisable digits
- Amount: Total € order

ProductBarcode: A barcode for each product is added to the Order Barcode content, made up of:

- Product reference
- Application reference
- Customisable digits
- Amount: Total € order

Product Reference: A reference for each product is added to the OrderBarcode content.

- It should make up the length of the product reference.

##### 4.1.4.3.2 Additional copies

Number of receipt copies desired, regardless of obligatory printing.

##### 4.1.4.3.3 Ticket printer

Selection of the printer where order receipt will be printed. Leave blank in order to not print receipts.

#### 4.1.4.3.4 Validation ticket

Option to enable/disable print-out of the validation ticket

When you enable this option, the ticket will be sent with a secret validation code to a printer located at the store counter or checkout.

#### 4.1.4.3.5 Validation ticket printer

Select the printer where you want to print the validation ticket.

#### 4.1.4.3.6 Barcode settings

The screenshot shows the 'Barcode Settings' interface. It is divided into two main sections: 'Order Barcode' and 'Product Barcode'. Each section has a table for defining the barcode structure. The 'Order Barcode' table has columns for 'App. Reference', 'Size', and 'Order'. The 'Product Barcode' table has columns for 'Product Reference', 'Size', and 'Order'. Below these tables are fields for 'Custom digits' and 'App. Reference'. At the bottom, there is a numeric keypad and a status bar with the 'KIOK' logo and a green checkmark button.

Order Barcode			Product Barcode		
	Size	Order		Size	Order
App. Reference	2	1	Product Reference	6	3
Digits	0	3	App. Reference	2	1
Amount	10	2	Digits	1	0
Custom digits			Amount	3	2
			Custom digits	0	

App. Reference: 99

1 2 3  
4 5 6  
7 8 9  
← 0 .

KIOK allRts

#### Definition of columns

- Size: this defines the number of digits required in the specified field.
- Order: You must give each field a number to set the order of appearance in the barcode. From lowest to highest, they will be shown from left to right on the barcode.

#### Definition of fields

- Application reference: Reference set for all printed order barcodes. The value of the application reference is defined in the bottom field.
- Digits: Customisable digits that you want to add to the barcode.
- Amount: Barcode digits that you want to use to show the monetary value.
- Customisable digits: Value of customisable digits.
- Product reference: A reference may be included for each product barcode; the position and number of digits to be used in the barcode can be defined on this screen.

#### 4.1.4.3.7 Ticket preview



Screen showing the ticket preview, exactly as it will appear when printed. The information on this ticket will vary according to the defined parameters.

#### 4.1.5 Users

On this screen, you can enable and disable users and modify their properties.



#### 4.1.5.1 Modify users

User data

Username: SUPERVISOR

Password:

User level: SUPERVISOR

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The 'modify user' screen allows you to name the user, change the password and select the user level of security (Supervisor, Operator).

#### 4.1.6 Additional taxes

In this screen, taxes can be set to be applied globally for an order. You can set the tax in the Service Module that will complete the order (PRINTS/LABS) or at the media type/service level of DPSLAB. Never do both at the same time. The table below shows an example.

Service Module	Service Module Tax enabled/value	PServer Media Type/LABS Service	Mediatype Tax /LABS Service Tax enabled/value
DPS PRINTSERVER	Yes: 3€	10x15H	No
DPS PRINTSERVER	Yes: 3€	13x18	No
DPS PRINTSERVER	Yes: 3€	15x20_A5	No
DPSLAB	No: 0€	Labs1: MITGEN protocol	Yes: 2€
DPSLAB	No: 0€	Labs2: MITGEN protocol	Yes: 1€
DPSLAB	No: 0€	Labs3: MAP (MITPBM) protocol	Yes: 0€

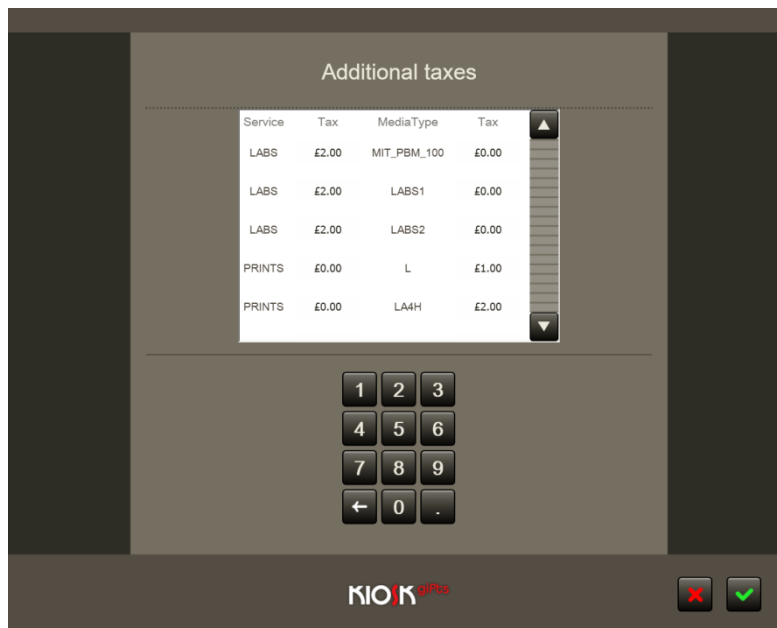
The customer orders:

In this case, if the user requests, for example:

2 calendars 10x15H (x2 sheets)  
1 print 10x15H (x1 sheet)  
1 Mosaic Poster 15x20\_A5(x8 sheets)  
40 prints to Labs1 (x40 sheets)

The order will apply the following taxes: 3 € for instant printing and 2 € for shipment to the laboratory by the Service Labs1 LABS (DPSLAB).

The settings screen shows the matrix of possible combinations.



## 5 Common work flow for the end customer

Although Kiosk gifts offers a wide variety of photographic services, and each of those services can have specific features regarding options and work flow, there are a number of steps that are common to most services that the end customer may select.

### 5.1 Screen saver

When the Kiosk is not being used, an animated screen will continually show the basic services offered, for advertising purposes.

As soon as the screen is touched, the animation will disappear and the main screen will appear.

### 5.2 Main screen

This screen shows the user all the services available from the Kiosk gifts.



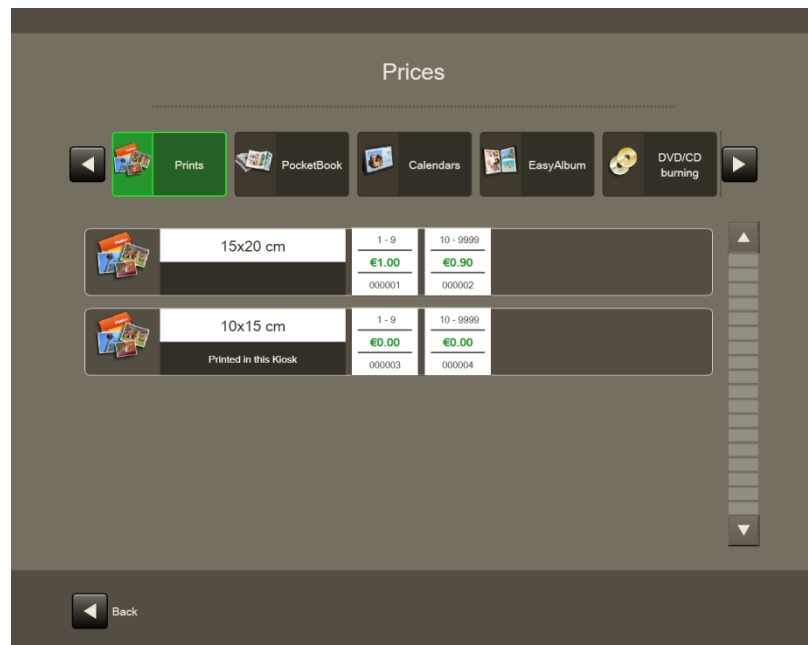


If more than 8 services are installed, the 4 that appear in the top row are permanent, while the bottom row can be shown in rotation: the user can move the icons using the slide bar below to see all the available options, and this will also move automatically on a regular basis to show the availability of other services.

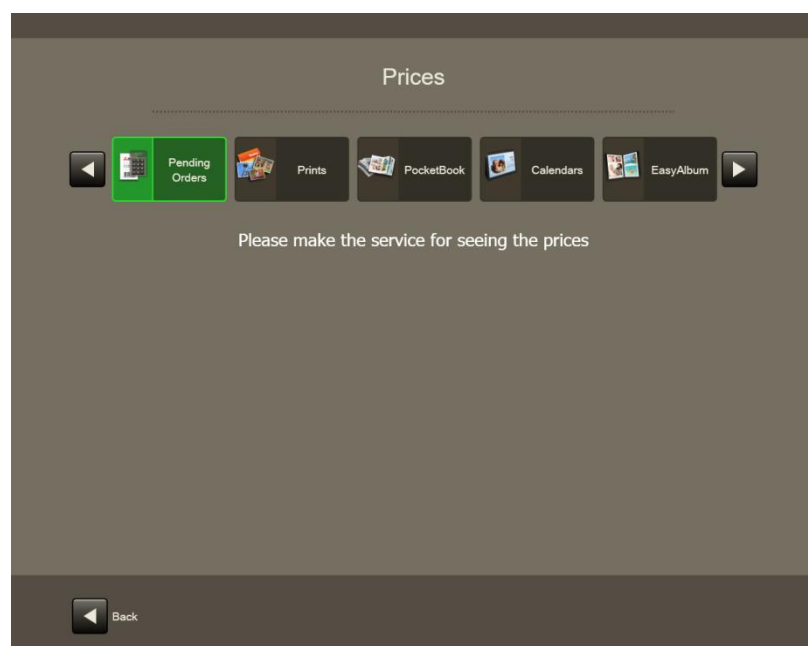
The available languages are shown in the bottom left, represented by flags. The Kiosk gifts default language is shown first.

The price information button appears in the bottom right of the screen. When you press the price button, a screen will appear where you can select each service and find price information for each product. Depending on the service you select, a price grid may appear, showing the prices according to the product and different price ranges according to quantity.

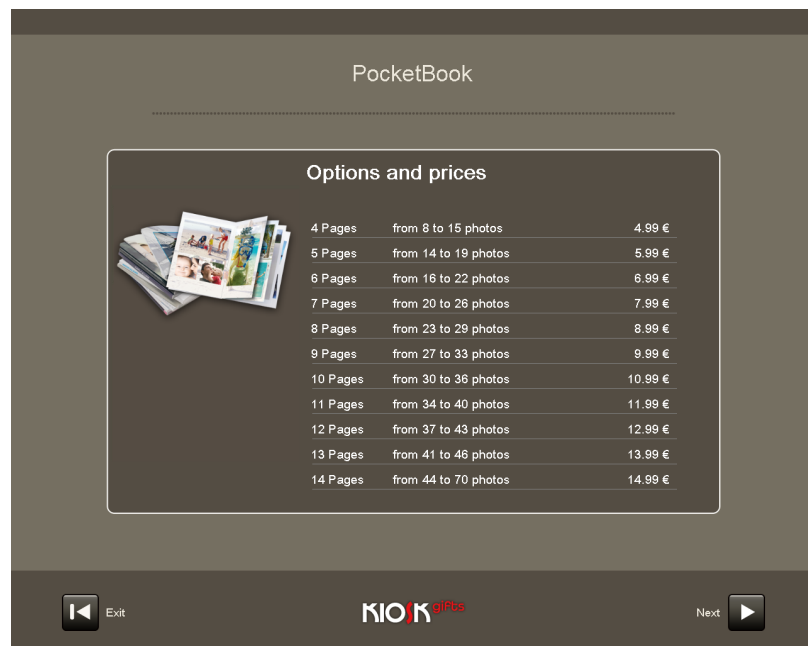
In the example given, for the Print service, the prices vary depending on whether you choose more or less than 10 copies of the selected print size.



In some services, price information is not given until the user starts the service, and then the customer will be informed. The example shows the information given when checking prices for the 'Instant Photo album' (Pocketbook).



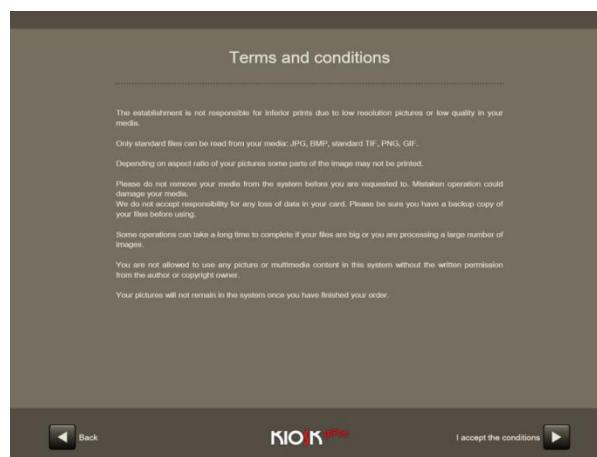
In the image below, the price information is shown for the “instant photo album/pocketbook” service.



## 5.3 Terms and conditions

On this screen, the customer can read and accept the terms and conditions of use.

Simultaneously, the application related to the selected service is starting up, and is transparent to the user. The “I accept the conditions” button will not appear active until the application has started



## 5.4 Choosing the photo source

This screen asks the customer to specify the data source from which the pictures will come. Depending on the chosen source, the flow of the following screens and the on-screen instructions may vary.



It is possible to identify two different streams marked by the choice of data source.

- Standard origins. Each of the possible physical origins in the Kiosk.
- Social networks (Facebook, Picasa). The user's photographs are obtained from the Internet.

### 5.4.1 Specific flow for photographs obtained from social networks.

To obtain photos from a social network, you must enter the correct user name and password for the selected source. The following image shows an example of photographs obtained from Facebook.



The pictures obtained from the social network are shown in folders according to the groups established at the source. At this point, select the folders containing the photos to be used in this service.



As it is a photo source which depends on an internet connection, it is recommended to optimise the selection of photos; to do this, an image selection screen is displayed with the contents of the folders selected in the previous step.



In the next step, all selected photos are downloaded in the original size as they are stored on the network. In the case that a large number of photos is selected, the download process may take some time. In order to keep users informed, a progress bar indicating the number of photos downloaded up to that point is displayed.

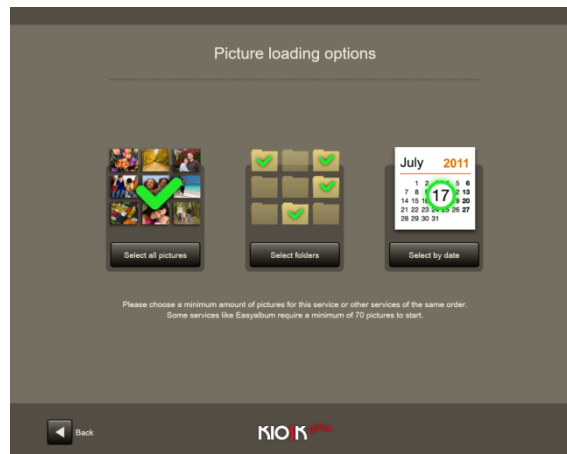


If this process is too slow, either due to an excessive number of images or slow internet connection problems, it is possible to cancel the download from standard access of the operator screen (by clicking on the two top corners).

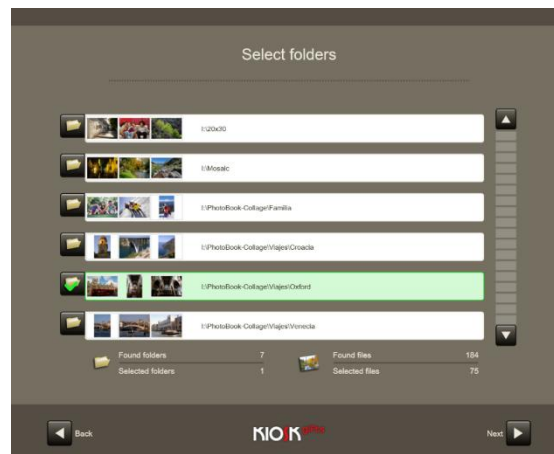
## 5.5 Photo loading options

The file source filter will save you reading and selecting time when you are working with digital camera cards, USB drives, DVD/CDs or other sources where access to large files can slow down the process.

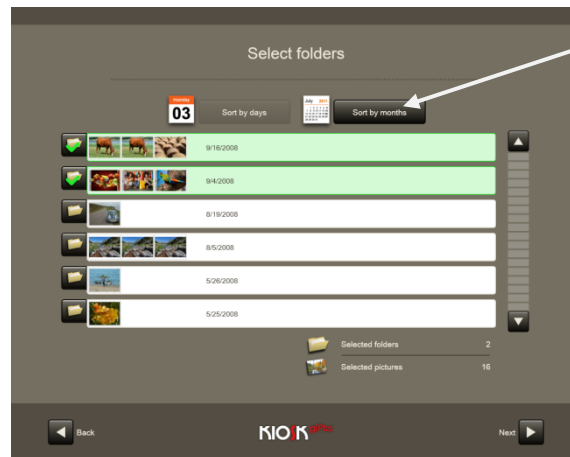
First, the option will be given to read all the photos found on the device, select folders from the device, and even select photos grouped by the date they were taken.



If the folder selection option is chosen, a summary of folders found and a sample of their content will be displayed. The user must select the folders containing the photos that he or she requires.



If the option to select by date is chosen, a summary of the photos modified on the same day will be displayed with a sample of content. The user must select the folders containing the photos that he or she requires. It is also possible to group photos that were taken in the same month by clicking the month option.

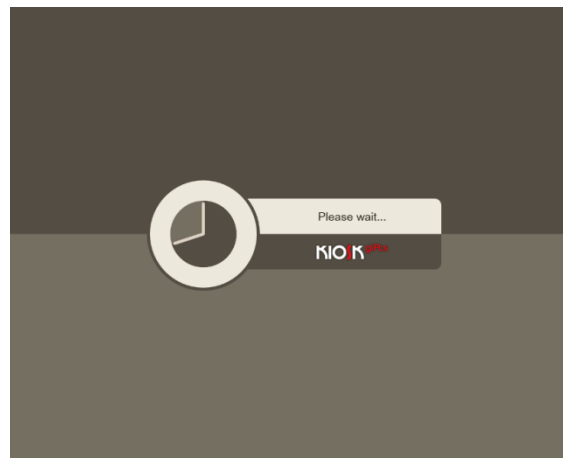


Order by month



## 5.6 Service processing

When the user has selected the folders that he or she needs, the following screen will appear. The application related to the service selected by the customer is now starting.

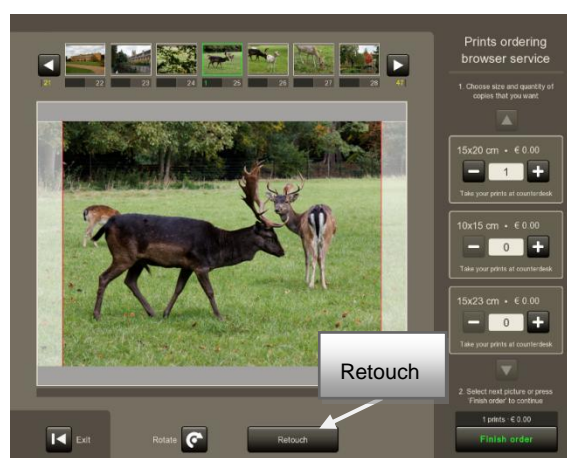


Depending on the service selected, different screens that are directly related to the processing of the different products will start appearing.

In order to know the flow of each service, you should access the corresponding chapters for each individual service in this manual.

## 5.7 Image retouching

Depending on the type of service selected, you can retouch some of the images that you have selected.



1. Press 'Retouch' to edit the image.

Once you have pressed 'Retouch' you will see the following screen in which you can select the different retouching options.



#### NOTE

Some applications have a limit to the number of images that can be modified using the retouch functions, depending on the size of the image. When the customer reaches the limit, he or she will see a warning message under the main image on the 'Order' screen.

### 5.7.1 Red eye reduction

When you press 'Red eye reduction', the following screen will appear:



To remove red eye effects:

1. Continue pressing the 'Remove' button until you achieve the desired result.
  - ▶ Press the 'Keep pressed to compare' button to show the original unchanged image.
2. Click on the green tick to save the changes.
- Press on the red cross to leave the image as it was and exit the screen.

## 5.7.2 Brightness and contrast

When you press 'Brightness and contrast', the following screen will appear:



To increase or reduce the effects of brightness and contrast:

1. Press the '-/+ brightness' button.
2. Press the '-/+ contrast' button.
  - ▶ Press the 'Keep pressed to compare' button to show the original unchanged image.

3. Click on the green tick to save the changes.
- Click on the red cross to leave the image as it was and exit the screen.

### 5.7.3 Sepia and black & white

When you press 'Sepia, black & white', the following screen will appear:



To convert an image into a black & white picture:

1. Press the 'Black and white' button.
  - ▶ Press the 'Keep pressed to compare' button to show the original unchanged image.
2. Click on the green tick to save the changes.
- Click on the red cross to leave the image as it was and exit the screen.

To change an image to sepia:

1. Press the 'Sepia' button.
  - ▶ Press the 'Keep pressed to compare' button to show the original unchanged image.
2. Click on the green tick to save the changes.
- Click on the red cross to leave the image as it was and exit the screen.

## 5.7.4 Automatic level

When you press 'Automatic level', the following screen will appear:



To automatically improve the image:

1. Press the 'Auto' button.
  - ▶ Press the 'Keep pressed to compare' button to show the original unchanged image.
2. Click on the green tick to save the changes.
- Click on the red cross to leave the image as it was and exit the screen.

## 5.7.5 Zoom and Crop.

When you press 'Zoom and crop', the following screen will appear:



To make the image larger or smaller:

1. Use the arrows to select the part of the image you are interested in.
2. Press the '-/+ zoom control' buttons.
3. Click on the green tick to save the changes.

You can crop the images in two formats:

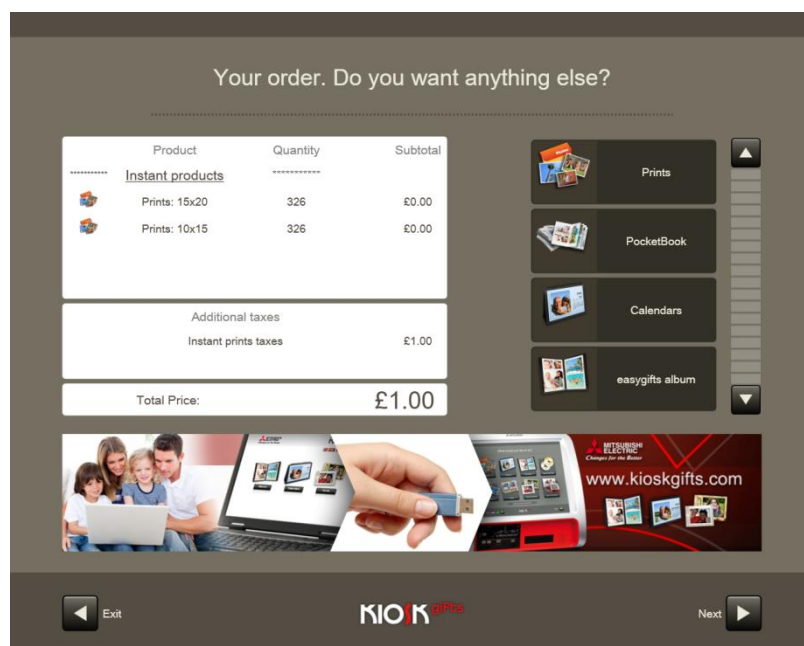
- Portrait.
- Landscape.

To crop the image:

1. Use the arrows to select the part of the image you wish to crop.
2. Press the 'Portrait/Landscape' buttons.
3. Click on the green tick to save the changes.
- Click on the red cross to leave the image as it was and exit the screen.

## 5.8 Order summary

Following definition of the service, a summary of the details of the products accumulated is shown on a screen with their cost and the taxes charged.



This screen informs customer of the active services in the machine so that he or she may select them for the images that have previously been selected.

When you click on any of these services, Kioskgifts will initiate the new service with the folders that the customer selected at the beginning.

If the customer decides to select new folders with new images for this service, he or she should finish the current service and then open a new one.



#### NOTE

The customer may repeat this cycle as many times as he or she needs, although each time he or she uses a product from a specific service, this product will no longer be available in the next round.

To finish the current service, press 'Next'.

At the bottom of the screen you will see the advertising area that appears at other points of the program. The time interval between the different adverts can be changed in the equipment configuration area.

## 5.9 Customer questions

Depending on the service, after the summary screen, the customer questions screen may appear. These questions can be configured using certain services and serve to provide a more personalised user experience.

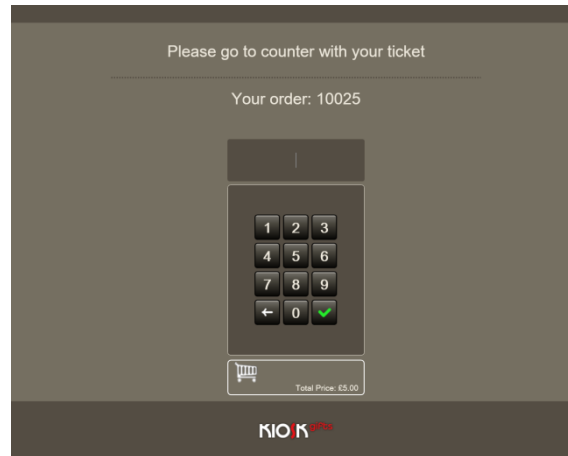


Answers are entered by the on-screen keyboard, by pressing the arrow '→' and tab to move to the following question, or by clicking on the desired text box.

After completing the questions, click 'Next' to continue.

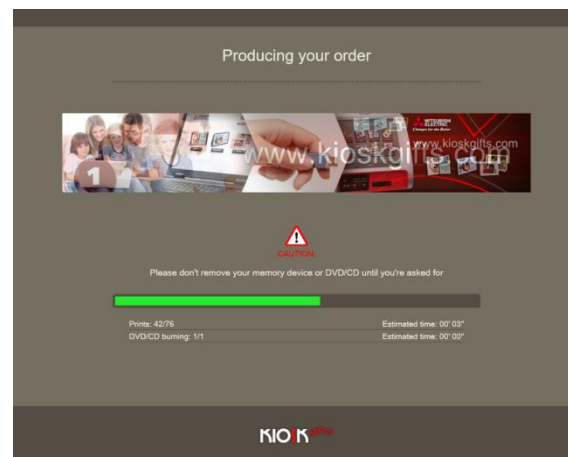
## 5.10 Order validation

When the order is to be performed on the same unit, an operator password screen is displayed. With the ticket that is printed out at this point, the customer must go to the checkout to pay for the order, and the operator will validate it on the unit itself.



## 5.11 Order production

In stand-alone mode, the unit will start all the pending processes and inform the end customer of their progress, as well as providing an estimated time of completion.



If the services involve printing on the premises, the prints will appear consecutively at the printer outlets.

In the case of DVD/CD burning, the user will be asked to insert a blank DVD/CD to be burned.

If some kind of error occurs, a message is displayed warning of potential problems. When this happens, the Kioskgifts operator should click on the white triangle displayed on the centre of the screen.



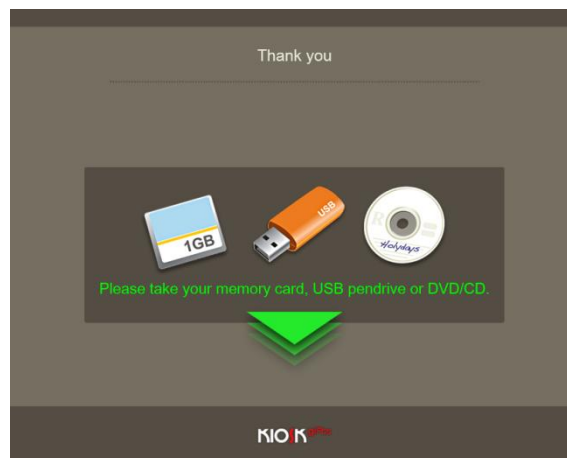


The operator will then be asked for his or her password. Once entered, this displays a dialogue where you can choose to access the 'Dispatcher' to check the real status of the order or terminate the session to release the unit for another customer.



## 5.12 Removing the device

Before showing the final screen, the customer is reminded to remove the digital image source (where applicable), such as a memory card, USB drive, DVD/CD, etc. The system will wait until there is no device inserted before it moves on to the next screen.



### 5.13 Goodbye message

The final screen thanks the customer for using the Kiosk, and in some cases it will indicate how to collect the services that have been processed.

To go back and start again, you must push the bottom right button, or wait a few seconds.



## 6 Available services

### 6.1 'Prints' service



This service enables the customer to print photographs in a wide variety of formats. The pictures can be printed at the Kiosk gifts itself, if it has a built-in printer, at a local production centre on the premises, or at a remote lab.

#### NOTE

The laboratory delivery service from 'copies' requires the use of an additional license. Please refer to the chapter on additional licenses or consult your dealer for more information.

These are some of the possible paper formats that Kiosk gifts offers:

- 10x15 cm (4"x6") The most commonly used format for standard prints
- 7.5x10 cm (3"x4"). Recommended size for low resolution photographs
- 9x12 cm (3.5"x4.7"). Alternative size for low resolution photographs
- 13x18 cm (5"x7"). Intermediate size for portraits
- 15x20 cm (6"x8"). Used for enlargements or portraits
- 15x21 cm (6"x8.5"). Used for enlargements or portraits
- 15x23 cm (6"x9"). Used for enlargements or portraits
- 11.5x15 cm (4.5"x6"). Recommended format for digital cameras Maintains the 4:3 image format as seen on the digital camera screen.
- 20x25 / 20x30. The largest format offered by MITSUBISHI ELECTRIC printers

### 6.1.1 'Prints' service: work flow

After the customer has chosen the folders with the photos, he or she will move on to the following steps:

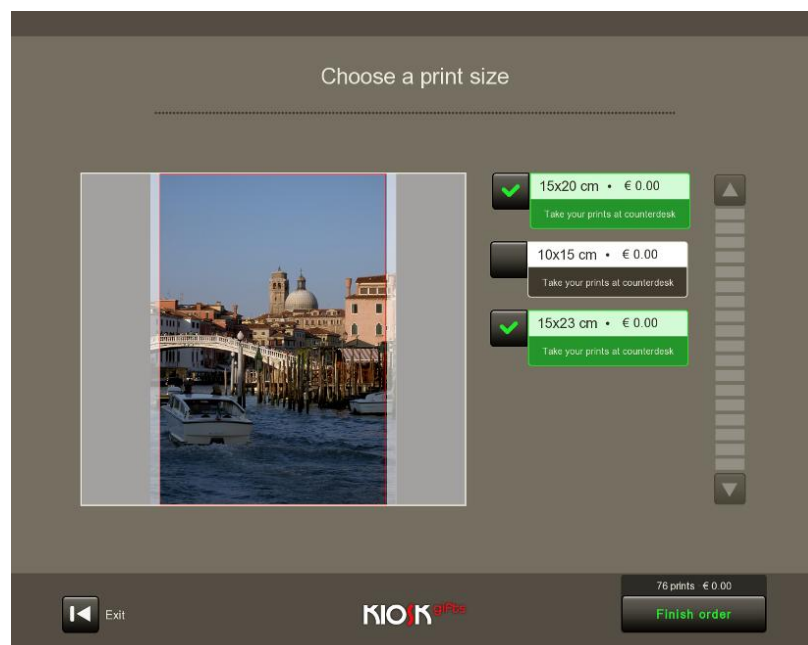
- a) The customer chooses between printing one copy of all the photos, 2 copies of all the photos, or a manual selection.



- b.1) For 1 or 2 prints of all the photos, the following screen is shown.

On the left you see an image from the selection. On the right, the customer chooses the print size, and can select several at the same time. For each print size, the price and pick-up point is shown (at the Kioskgifts itself or any other production locations).

The photo margins are clearly visible (the lighter section outside the red line), but will not be printed. The size depends on the difference between the aspect ratio for the print area and the photo itself. When several print sizes have been marked, the most restrictive case is always shown.



b.2) If the customer chooses the manual selection in point a), the following screen will be shown.

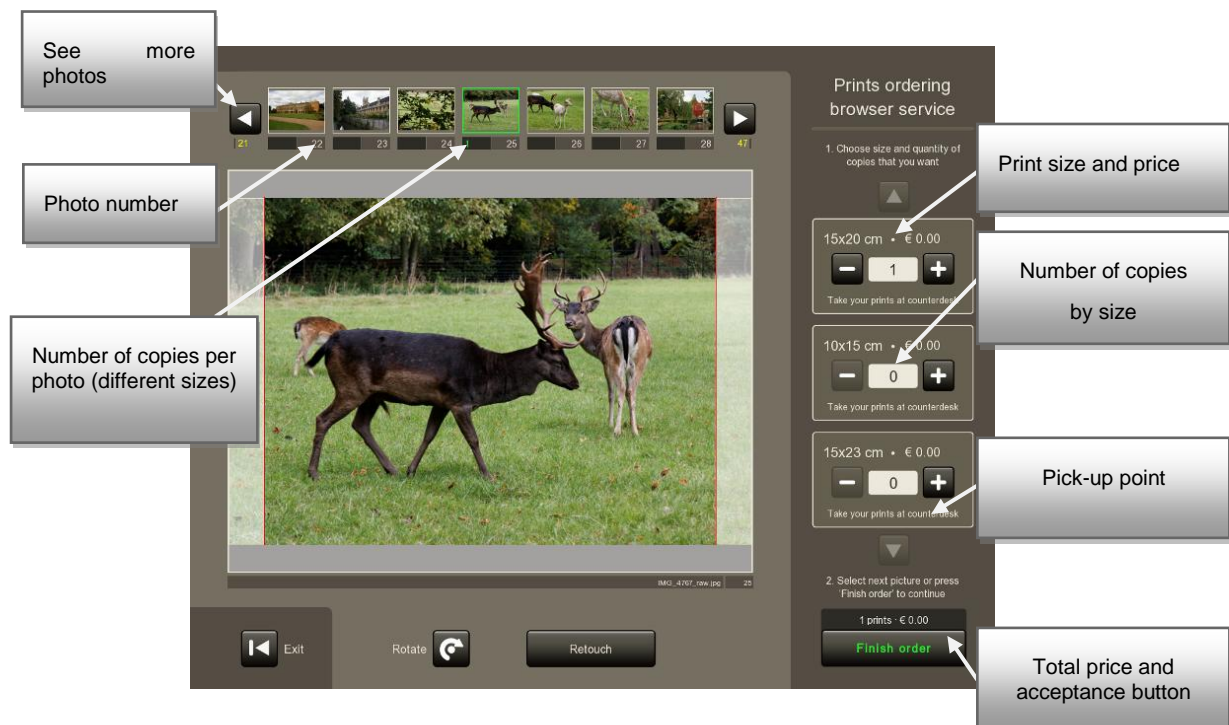
In this screen, the customer can look at all the photos that have been filtered, and order different print sizes for each photo, rotate them (merely to view them better, but the result will not be kept permanently in the original file), edit the brightness and contrast, apply black & white or sepia effects, adjust the colour, etc. by pressing the 'Retouch' button.

The photos will appear in miniature and in chronological order at the top of the screen. The selected photo (marked green) will also appear as the main image.

In the panels to the right of the main photo, the customer can add the copies required for each different printing format. In each print size box, the price per unit, number of copies and pick-up point are also shown.

The total number of copies for each photo, including the different printing formats, is shown below each miniature on the top panel.

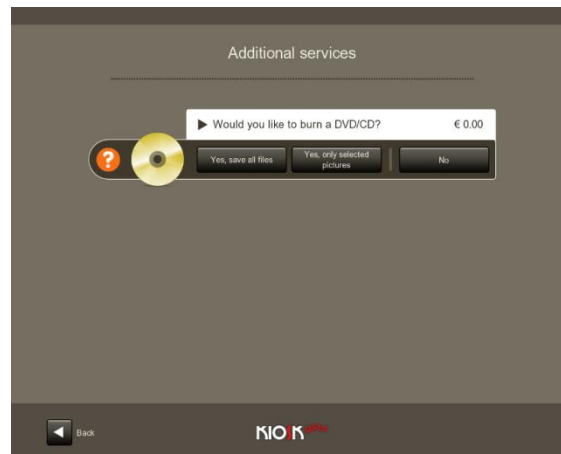
The accumulated price for this service is shown on the bottom right button. Press this button to confirm selection and continue the flow.



c) After points b.1 or b.2, you will be asked if you wish to add a DVD burning service or index print:

- DVD burning

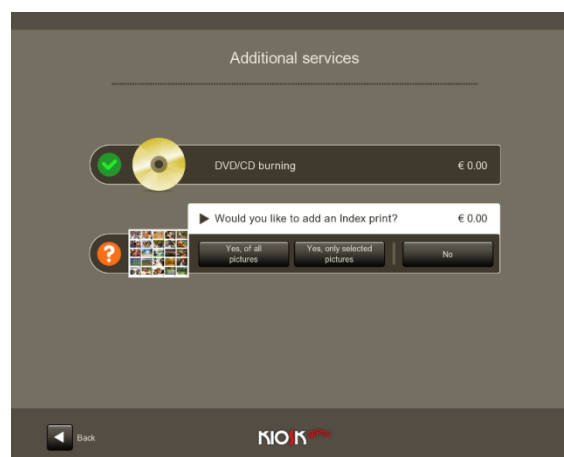
You can choose to burn all the photos in the folders selected at the beginning, or only those chosen for the current service. These questions will not appear again in any other services that the customer may add to the same order. In any case, DVD burning is always available as a service whenever the customer has the option to choose from all the services.



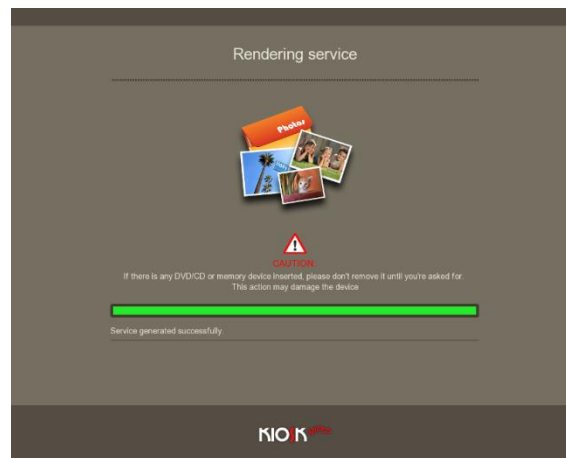
- Index print

Next you will be asked if you wish to make an index print of all the photos contained in the folders, or only the selected photos.

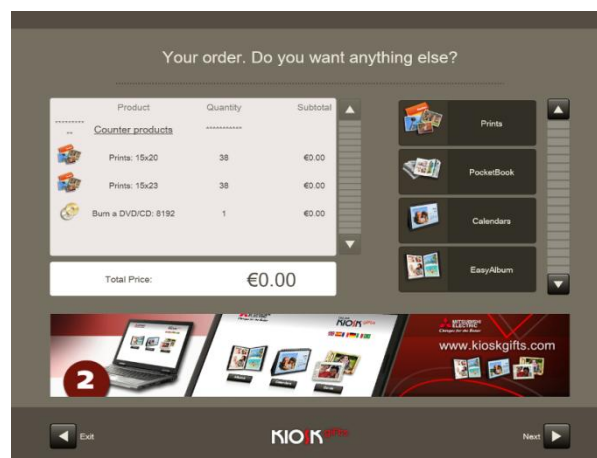
The index print will always occupy a single sheet, the size of which is specified in the configuration section (usually 10x15 by default), and contains an automatic selection of all the photographs.



d) Finally, the service compiles all the necessary information to create the files needed for production. Depending on the type of service, this may take a few seconds or several minutes (as is the case of an album with several pages and a considerable amount of photos).



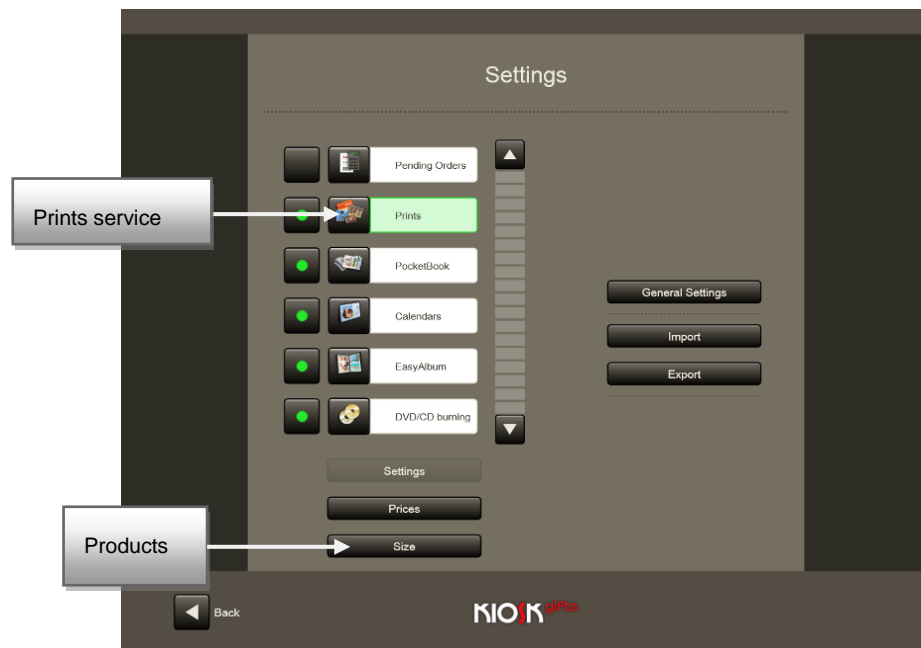
e) The service closes and Kiosk gifts is once again active, so that the customer can add more services or finish the current order, as seen in the relevant chapter.



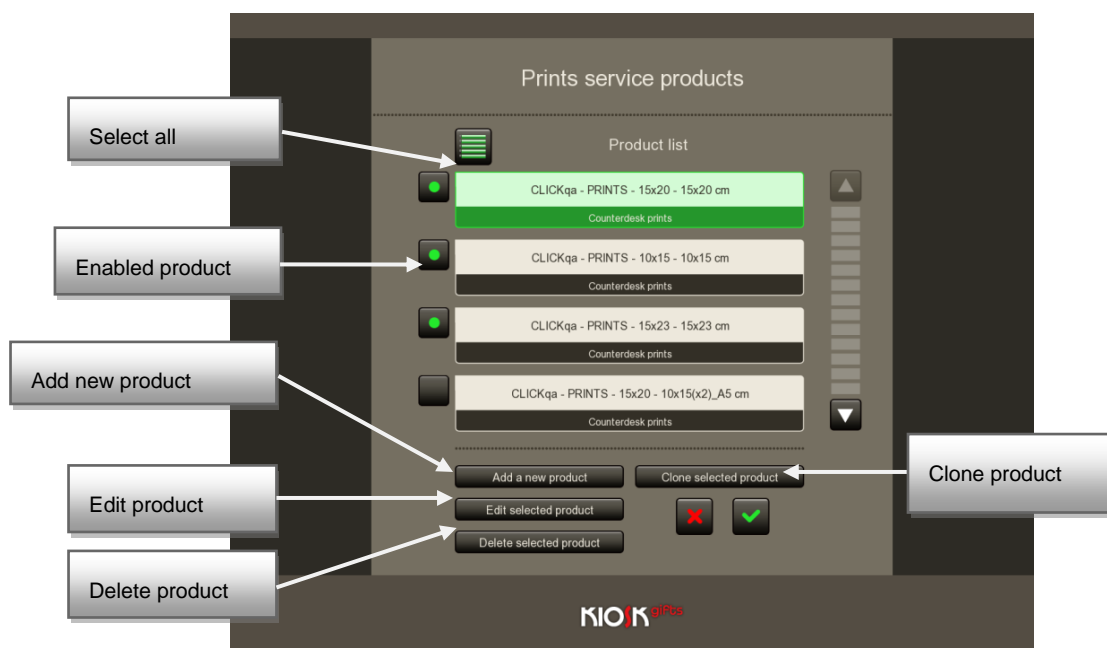
### 6.1.2 'Prints' service administration: product creation

Due to the vast array of options offered by the Kiosk gifts, you need to configure a set of parameters for each product in each service. So, for the Prints service, for every print size you must specify the production machine, output module, the consumable paper size, and the final print format (there may be several for each consumable size).

To configure the print service products, select the 'Prints' service on the settings screen. Next, press the 'Products' button.



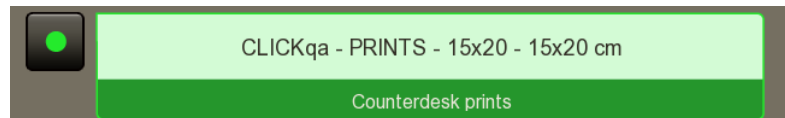
The list of current products will appear. On the left of each product, marked with a green dot, those products that are activated, and consequently available to the Kiosk gifts user, will be shown.





The following information is shown for each product on the list:

- Product ID, including:
  - name of the destination machine
  - type of output module (PRINTS, LABS, BURNS)
  - type of consumable
  - print format



In the example, the name of the destination machine is *CLICKqa*, the service module is *PRINTS* (therefore we know it is a product that can be printed instantly using MITSUBISHI sublimation printers), the type of consumable is 15x20 and the print format is also 15x20.

In some cases, the type of consumable and the print format may differ, as is the case, for example, when printing 2 copies of 10x15 photos on a 15x23 consumable sheet. In that case, the type of consumable would be 15x23 and the print format would be 2x10x15.

- Description of the pick-up point

Due to the fact that different production destinations can be configured for each product, it is important to make it clear to the operator which pick-up point is used for each one.

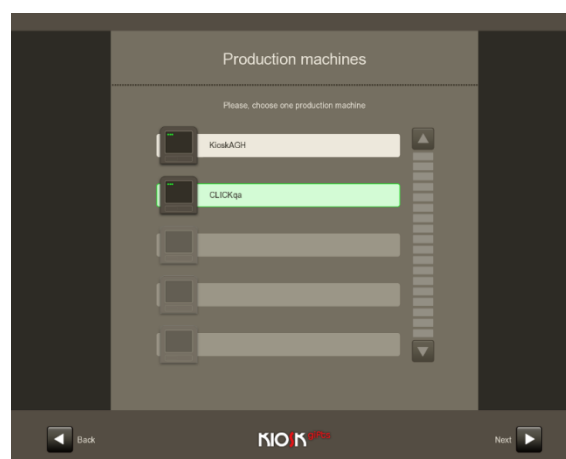
This description may be the same as that shown to the end customer, or it may be a shorter description. This is explained in detail further on in this section of the manual.

When you press the 'Add product' or 'Edit product' buttons, the product configuration wizard will start. The following sections will explain the steps in detail.

### 6.1.2.1 Production machine

The first step is to select the production machine to which the product will be sent.

According to the system settings, more than one option may appear. These could be the Kiosk gifts itself (in stand-alone mode), another Kiosk gifts machine (as is the case in a Kiosk isle), or a Click5000.



### 6.1.2.2 Service module

You need to select a module for production. This could be PRINTS or LABS. It would be pointless to select BURNS (which burns DVD/CDs) for a printing service.

#### NOTE

It may be that not all the output options are available, depending on the selected service and/or additional licences required.

The available output modules are those offered by the selected production machine in the previous step.

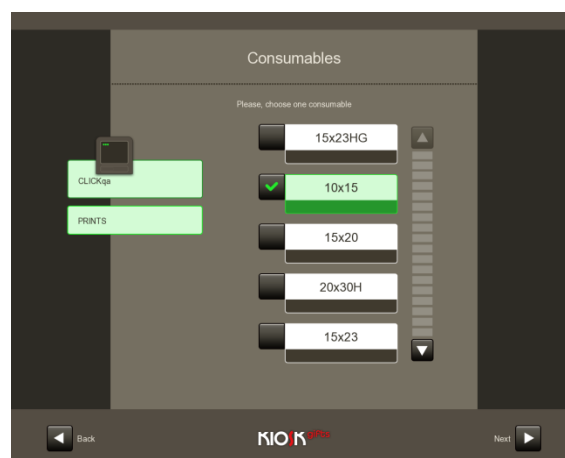


### 6.1.2.3 Consumable/Output channel.

Depending on which module was selected in the previous step, different options will appear on this screen.

For example, if you chose 'PRINTS', you will now be required to select your preferred consumable size. The sizes shown here are those announced by the PRINTS service module of the production machine that was chosen in the first step.

The example shows how the '15x23HG' and 15x23 consumables appear at the same time. It is important to know which of these is available in the production machines. Otherwise, if you set an unavailable consumable, the jobs you have ordered will go into 'ERROR' status after being validated, instead of starting production.



If you chose 'LABS', you must now select the output channel from the different channels this module may offer. The output channels are normally associated with a different production machine or remote centre.

#### 6.1.2.4 Print size

In the case of PRINTS, after choosing the consumable size, you also have to set the print format.

For example, if you chose 15x23HG as your consumable, you can choose between the following print formats: 15x23, 15x21, 15x20, (10x15)x2, (11.5x15)x2



In the case of LABS, you have to choose an element from the list given by the previously selected channel. It may also include print formats, but depending on the type of products offered by the machine or lab for the selected channel, print sizes or other types of elements will appear (photogifts, etc.).

#### 6.1.2.5 Delivery instructions

In order to give the customer information about the delivery options for each product, you can insert a short text message, such as 'Product printed instantly', 'Pick up your order at the photography counter', 'Receive your photos at home', etc.

By default, the text messages that were inserted in the Kiosk installation wizard will be shown, although you can edit these to be more specific for each product. These texts do not admit translation, so they will not vary even though the language selected by the end customer is changed.

You can insert one text for the end customer and another for the operator, although it is simpler to first insert the customer text and then copy it to the operator text using the 'Copy text' button.

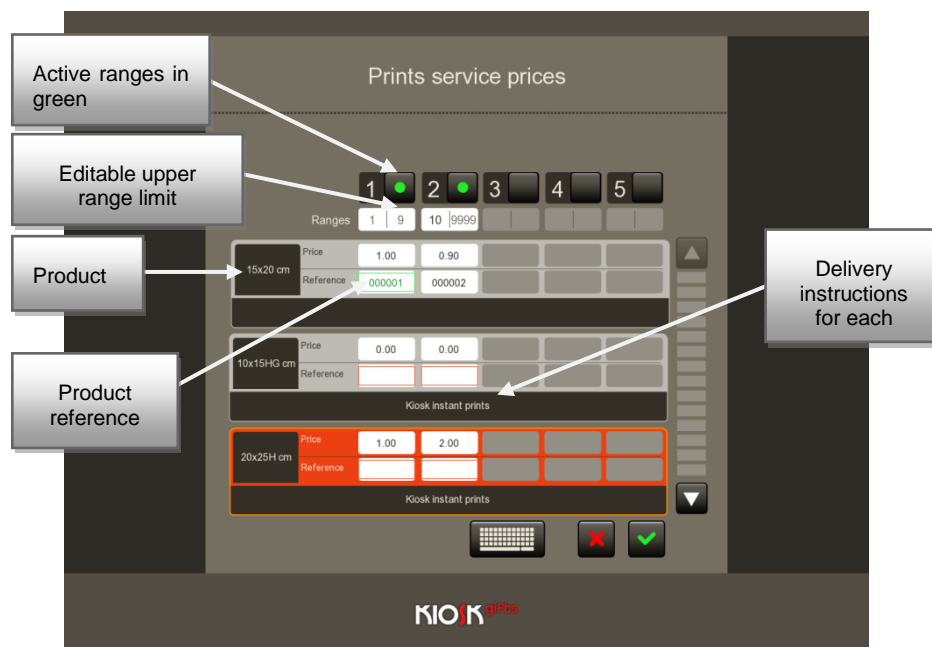


### 6.1.3 'Prints' service administration: editing prices

To configure the print service product prices, select the 'Prints' service on the settings screen. Next, press the 'Prices' button.



A screen will appear in which you can activate up to 5 different price ranges and set a price for each product in each range, as well as the product code for ticket printing (optional).



The recommended steps would be as follows:

- Decide how many ranges you want and set the upper limit for each one, consecutively. For example, from 1 to 9 prints for the first range, from 10 to 99 prints for the second, etc.
- Type in the price of each product and for each different range.

- c) Type in the product reference. This step is optional: it is only useful in those cases where you are using barcodes or a different numerical code for each product that appears on the customer ticket.

According to the barcode configuration, the figure will have a set length. If the figure you type in does not match this specific length, a red square will appear around the figure.

## 6.2 Instant Photo Album



Instant Photo Album is a software application that allows you to easily create instant MITSUBISHI photo albums.

The product created by the Instant Photo Album application will be ready to be sent to the MITSUBISHI MAP to be made, and the resulting product will be a completely finished instant photo album.

Please ask your distributor for more information about the MITSUBISHI Instant Photo Album option.



The Instant Photo Album application contains a wide variety of pre-defined templates for each page, with a range of decorative backgrounds that are randomly allocated to facilitate the automatic creation and customisation of each album.

## 6.2.1 Instant Photo Album service: work flow

After the customer has chosen the folders with the photos, and by following the application's instructions, they can create an automatic album in just a few steps. This chapter describes the different screens and what they mean.


### 6.2.1.1 Product selection

In the Instant Photo Album service, the product is selected automatically according to the number of images chosen by the customer.

The first screen that we see is the price list, where the price for the Instant Photo Album is shown, according to number of pages.


PocketBook

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### Options and prices

4 Pages	from 8 to 15 photos	4.99 €
5 Pages	from 14 to 19 photos	5.99 €
6 Pages	from 16 to 22 photos	6.99 €
7 Pages	from 20 to 26 photos	7.99 €
8 Pages	from 23 to 29 photos	8.99 €
9 Pages	from 27 to 33 photos	9.99 €
10 Pages	from 30 to 36 photos	10.99 €
11 Pages	from 34 to 40 photos	11.99 €
12 Pages	from 37 to 43 photos	12.99 €
13 Pages	from 41 to 46 photos	13.99 €
14 Pages	from 44 to 70 photos	14.99 €

 Exit

**KIOX** gifts

Next 



## Create an Instant Photo Album in 6 steps.

### 6.2.1.2 Step 1. Select theme

Each theme has several backgrounds that will be applied at random to each page of the selected product.



### 6.2.1.3 Step 2. Select photographs

Once you have selected the folders that you are going to process, the following screen will appear:



► A verification mark in the corner of the selected pictures will be visible.  
To preview the selected picture in full screen mode:

#### NOTE

You cannot continue unless you select a minimum number of pictures within the established limits. The 'Next' button will be displayed as de-activated.

#### 6.2.1.4 Step 3. Write a title for the album

Once you have selected the pictures and activated the 'Cover' option, the following screen will appear:

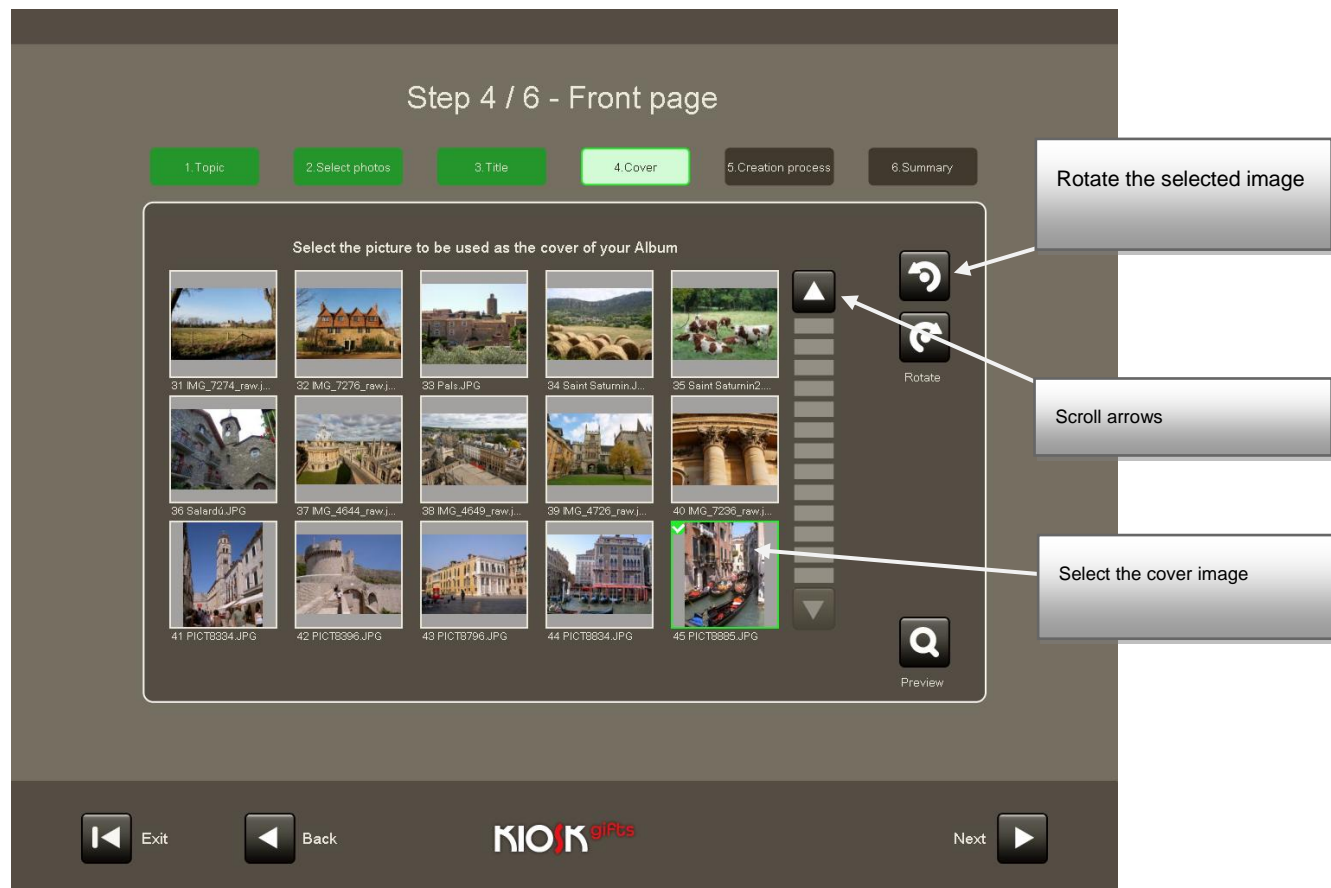


When you press a key, a panel of key options will appear on the top left of the keyboard. The options will look something like 'AaáÄÀâäâÄÄ'.

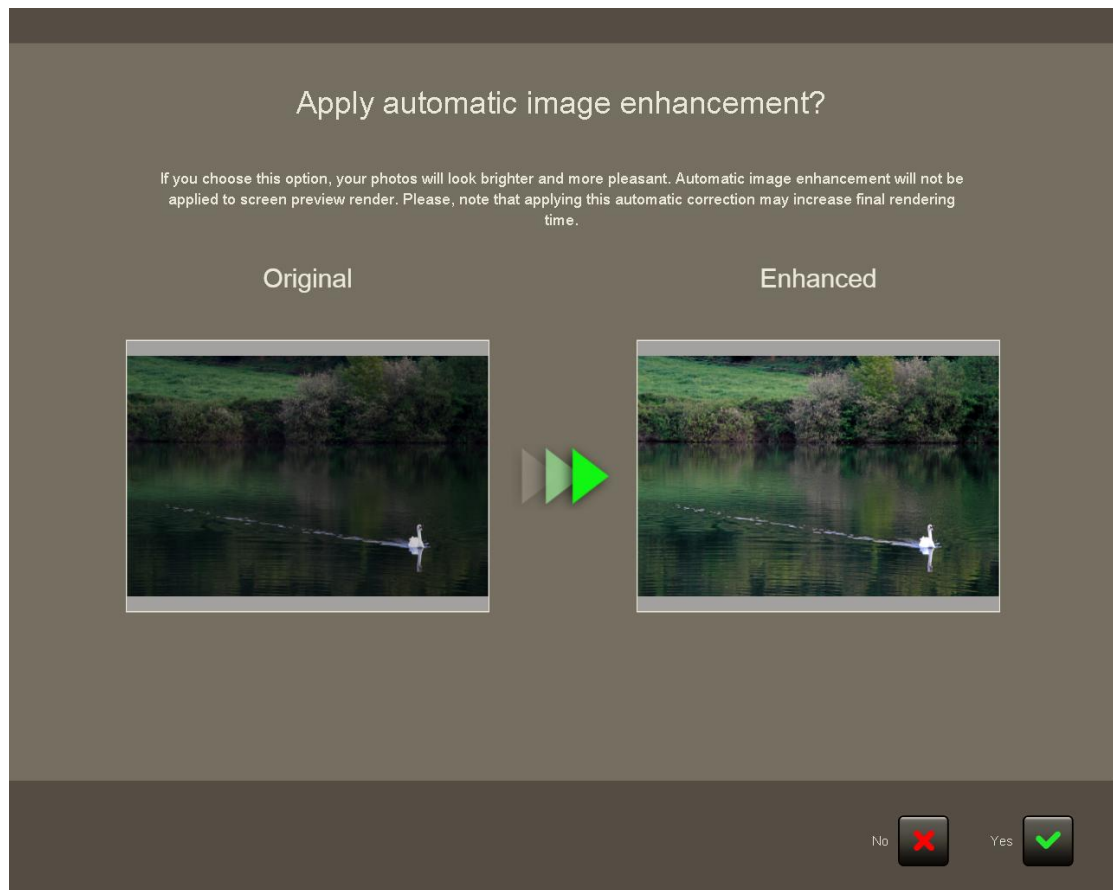
It will continue to the next character by pressing the same key again and again.

### 6.2.1.5 Step 4. Cover selection

Once you have chosen a title, the following screen will appear:



Depending on the settings, the following screen will be displayed before proceeding to the next step.



It will ask if you want to apply an automatic enhancement of the images in the album. This option corrects dark photographs by making them lighter and enhances low contrast images.

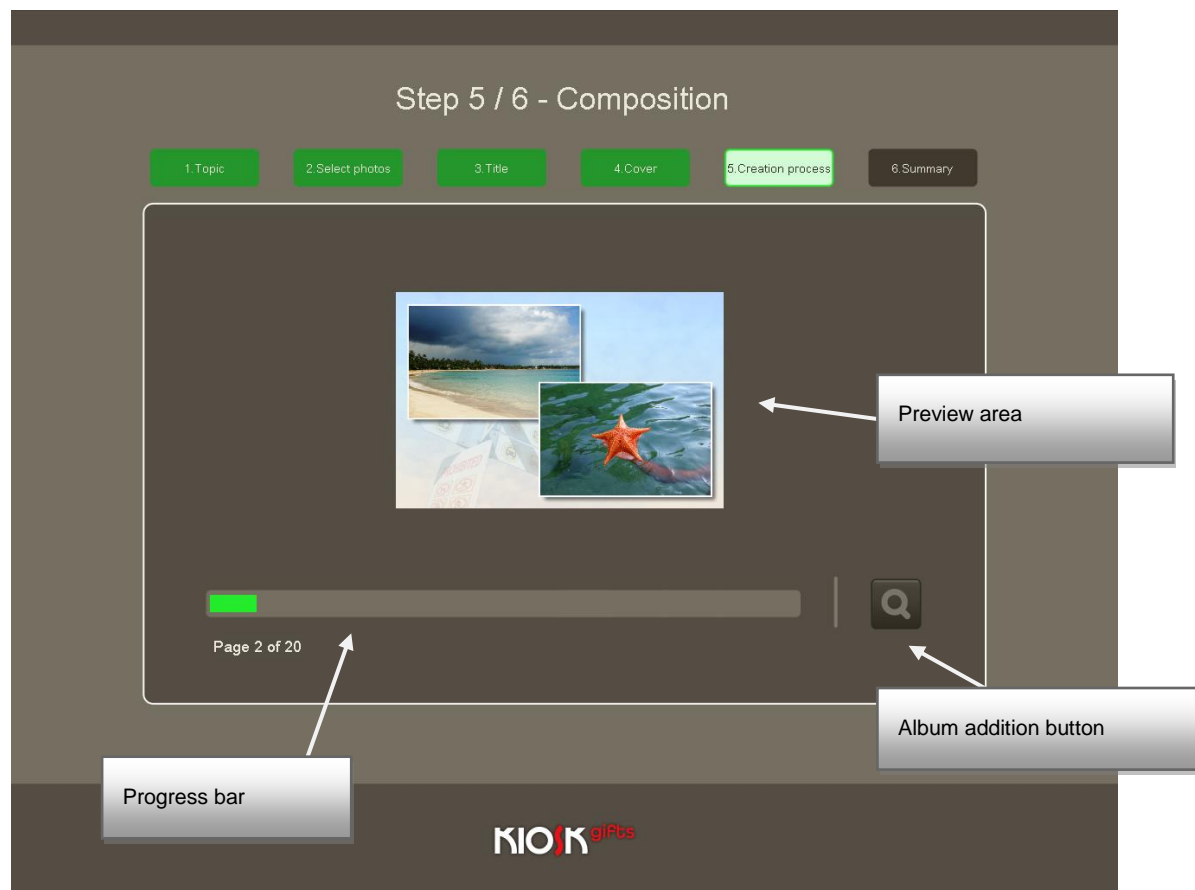
The screen can display a selected sample of the user's own images.

Keep in mind that this process is fully compatible with the image adjustments made during the preview step and product edit, but will only be applied during the final composition of the album and, therefore, will not be reflected in screen.

Press 'Yes' or 'No' depending on user preference.

#### **6.2.1.6 Step 5. Composition**

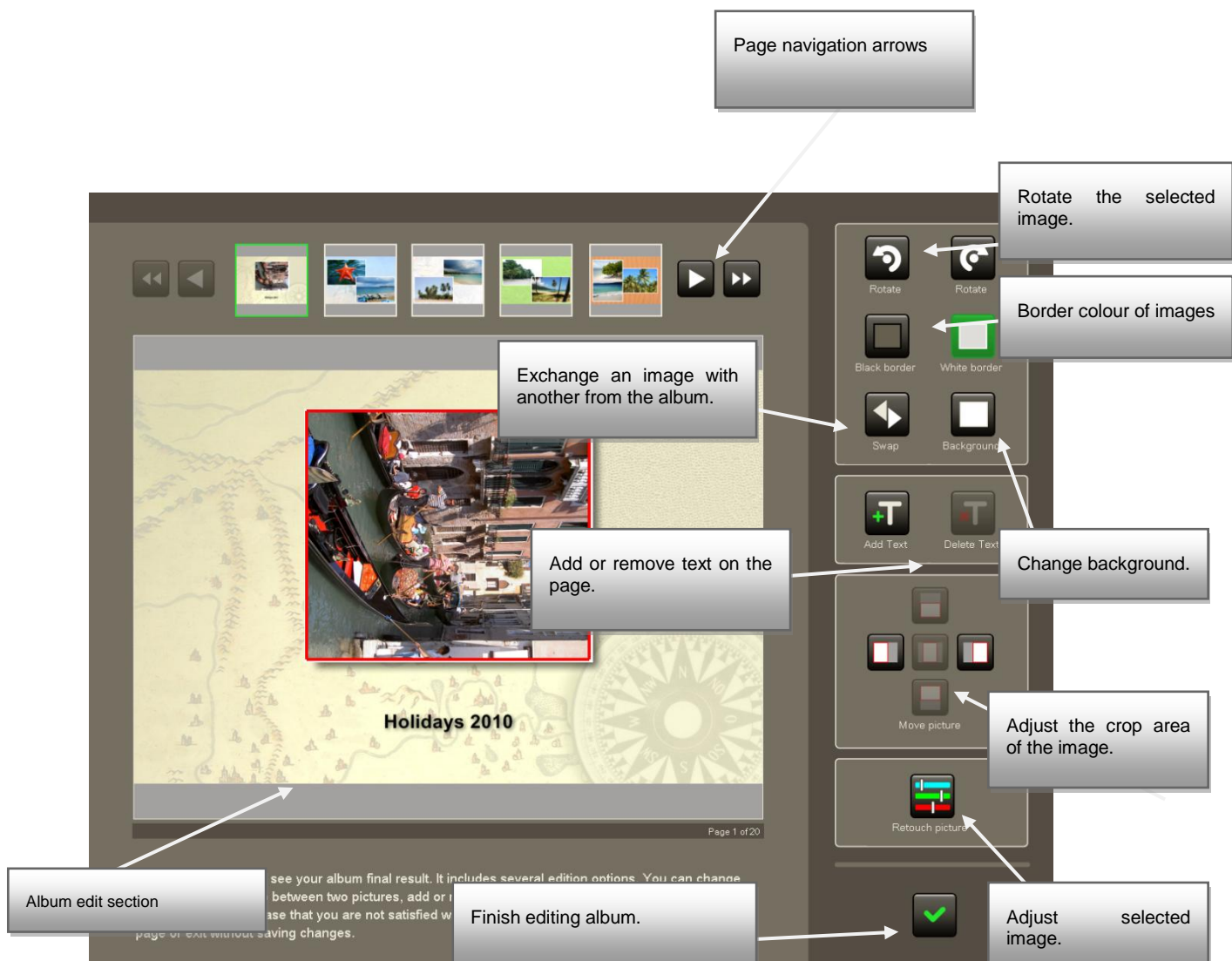
This function will create the composition of the chosen product, with all the information provided during the work flow.



If you do not wish to make any modifications, press 'Next' to continue.

### 6.2.1.7 Preview and product editing

Once you have selected the 'Preview and edit' option, the following screen will appear:

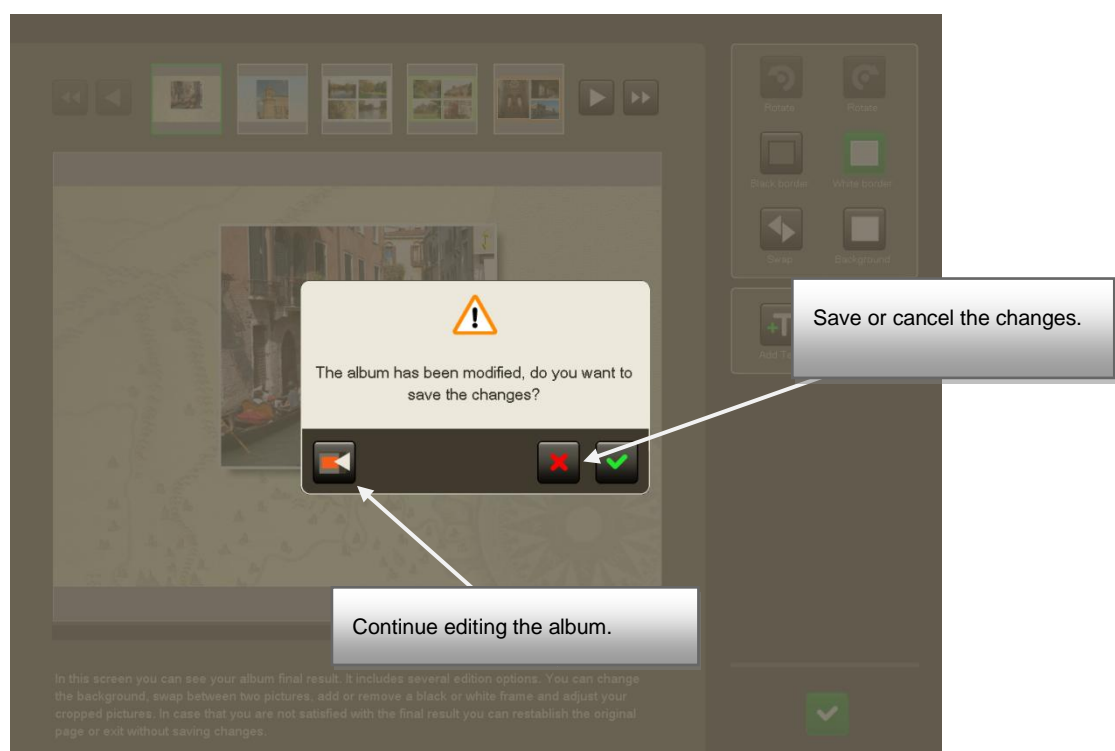




#### 6.2.1.7.1 Save changes

When the product is finished, press 'OK' to continue.

- The following screen will appear:





### 6.2.1.8 Step 6. Order summary

Once you have approved the product changes, the following screen will appear:

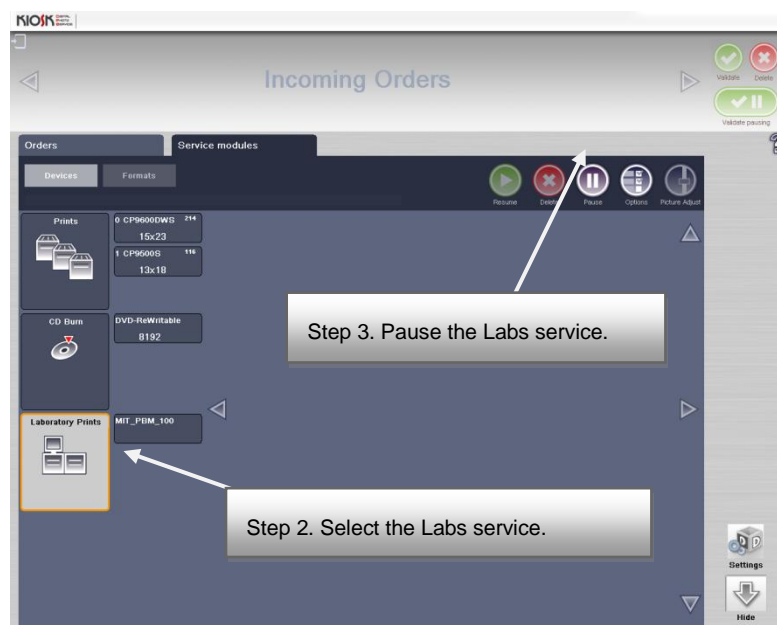


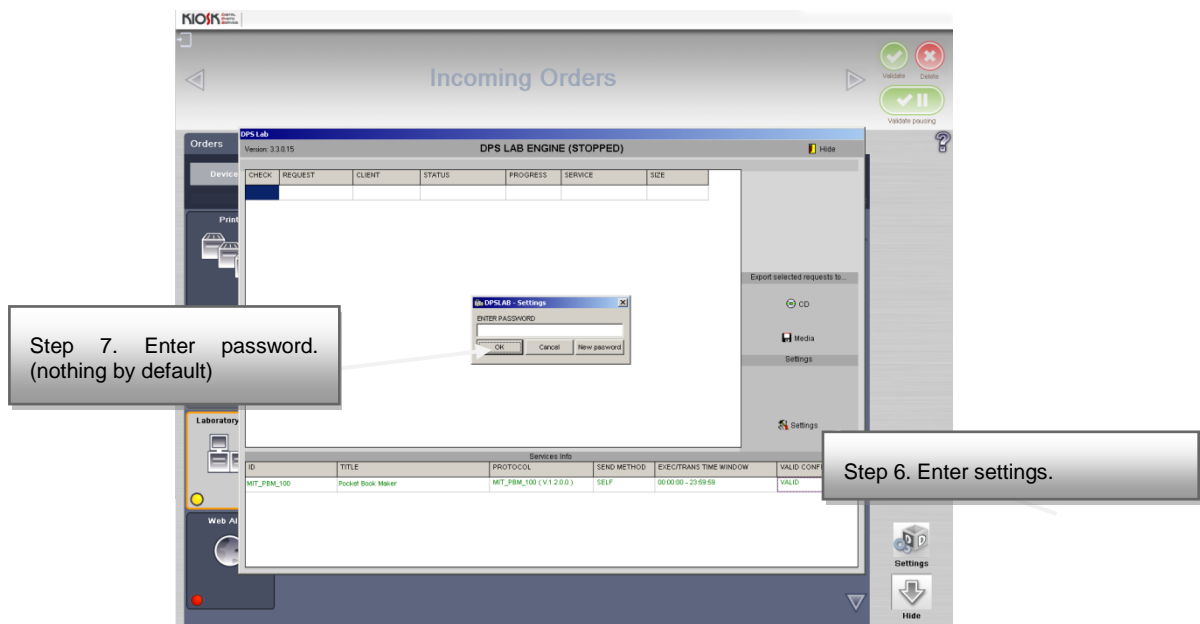
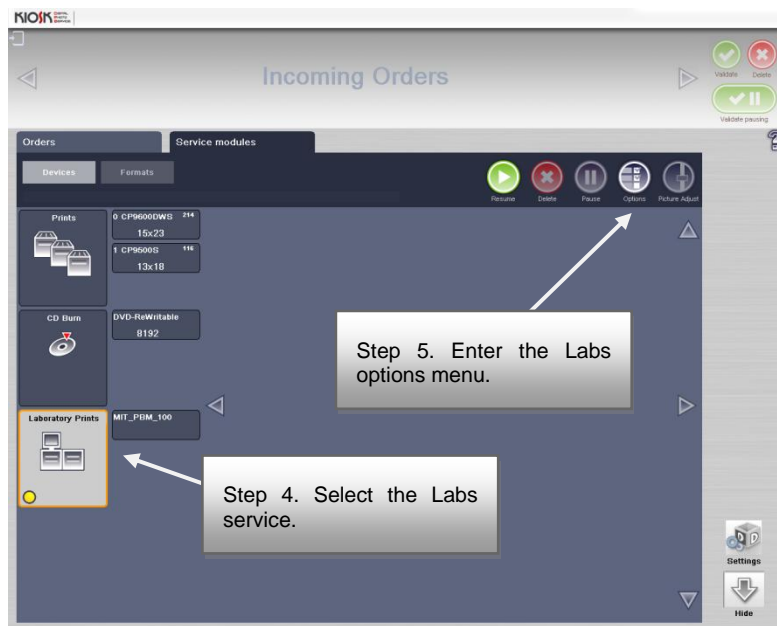
If you have installed a ticket printer, a note will be printed out with the order details.

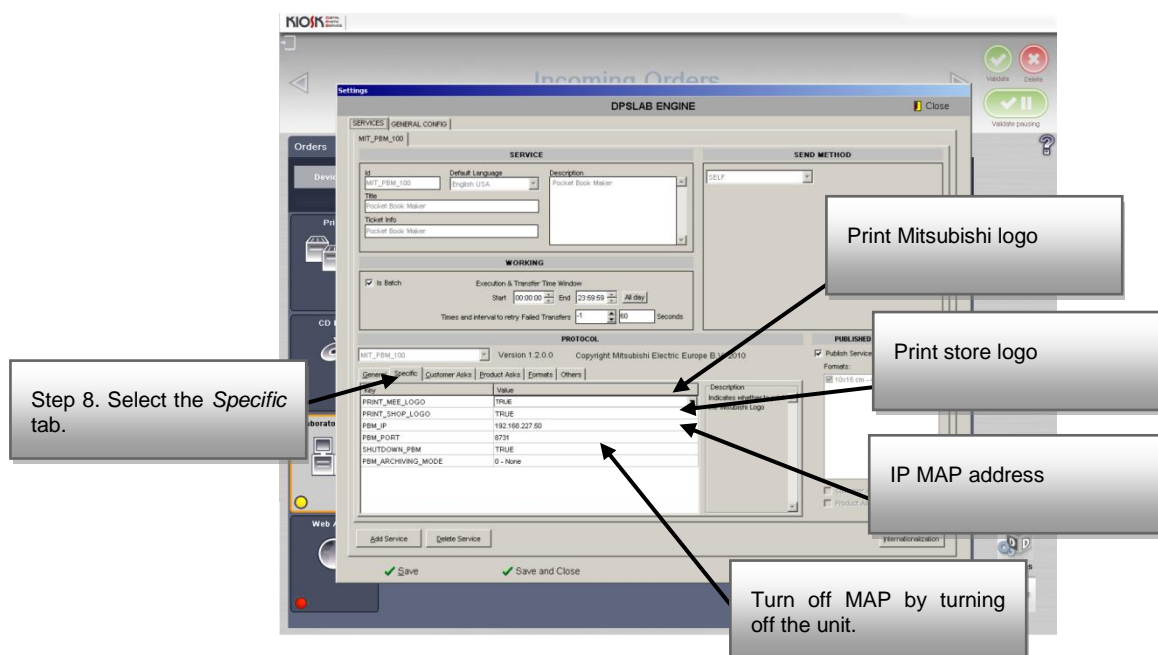
The next screen shows the selection of additional products so that the customer can add any other services or finish the current order, as seen in the relevant chapter.

## 6.2.2 Instant Photo Album service administration: initial steps

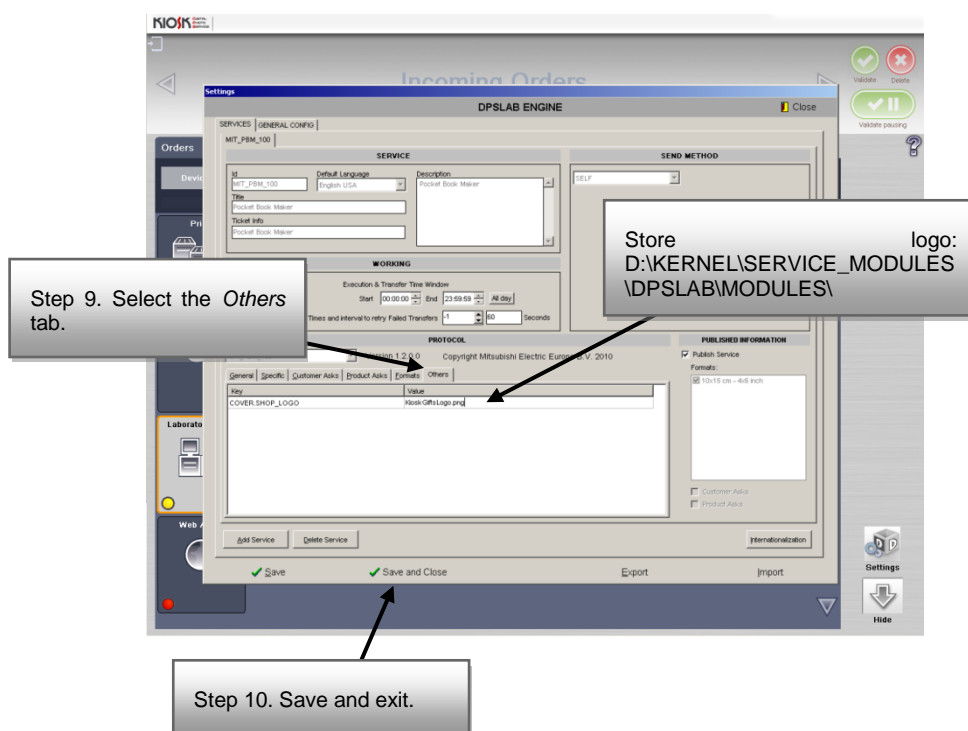
Before using the 'Instant Photo Album', review the laboratory shipping module settings, DPSLab. To do so, follow the steps below.







The system comes preconfigured for the Instant Photo Album service function without any need to change settings. The IP address of its Mitsubishi MAP is 192.168.0.50 by default.



## NOTE

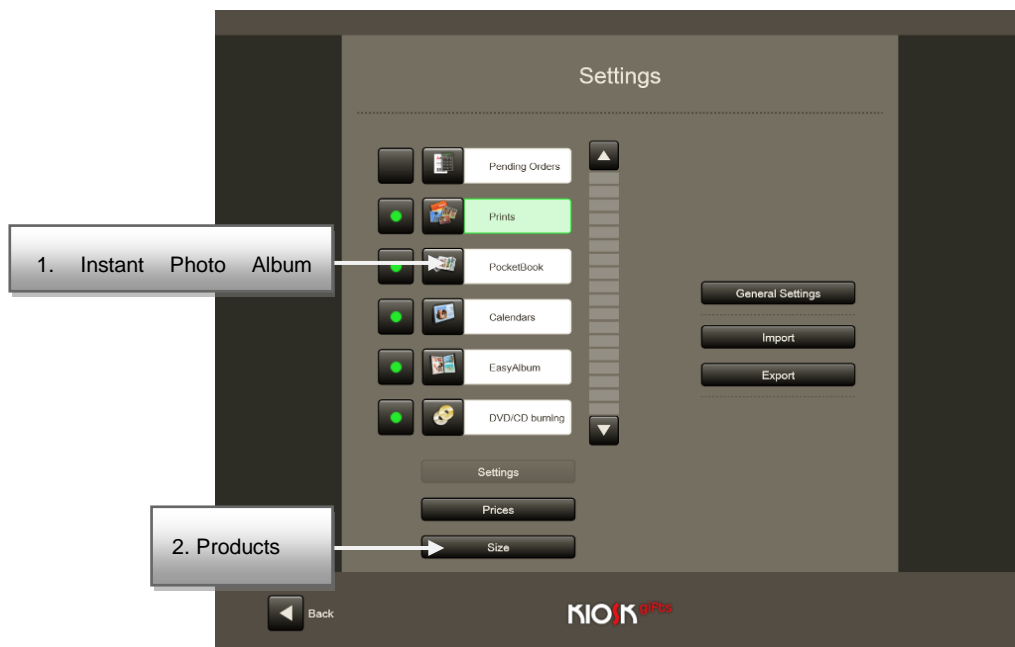
To change these settings, a minimum technical knowledge of the unit is required. Contact your dealer or authorised service centre.



### 6.2.3 Instant Photo Album service administration

Due to the vast array of options offered by the Kiosk gifts, you need to configure a set of parameters for each product in each service. For the Instant Photo Album service, you must specify the production machine, output module and consumable paper size for each product, among other parameters that will be shown below.

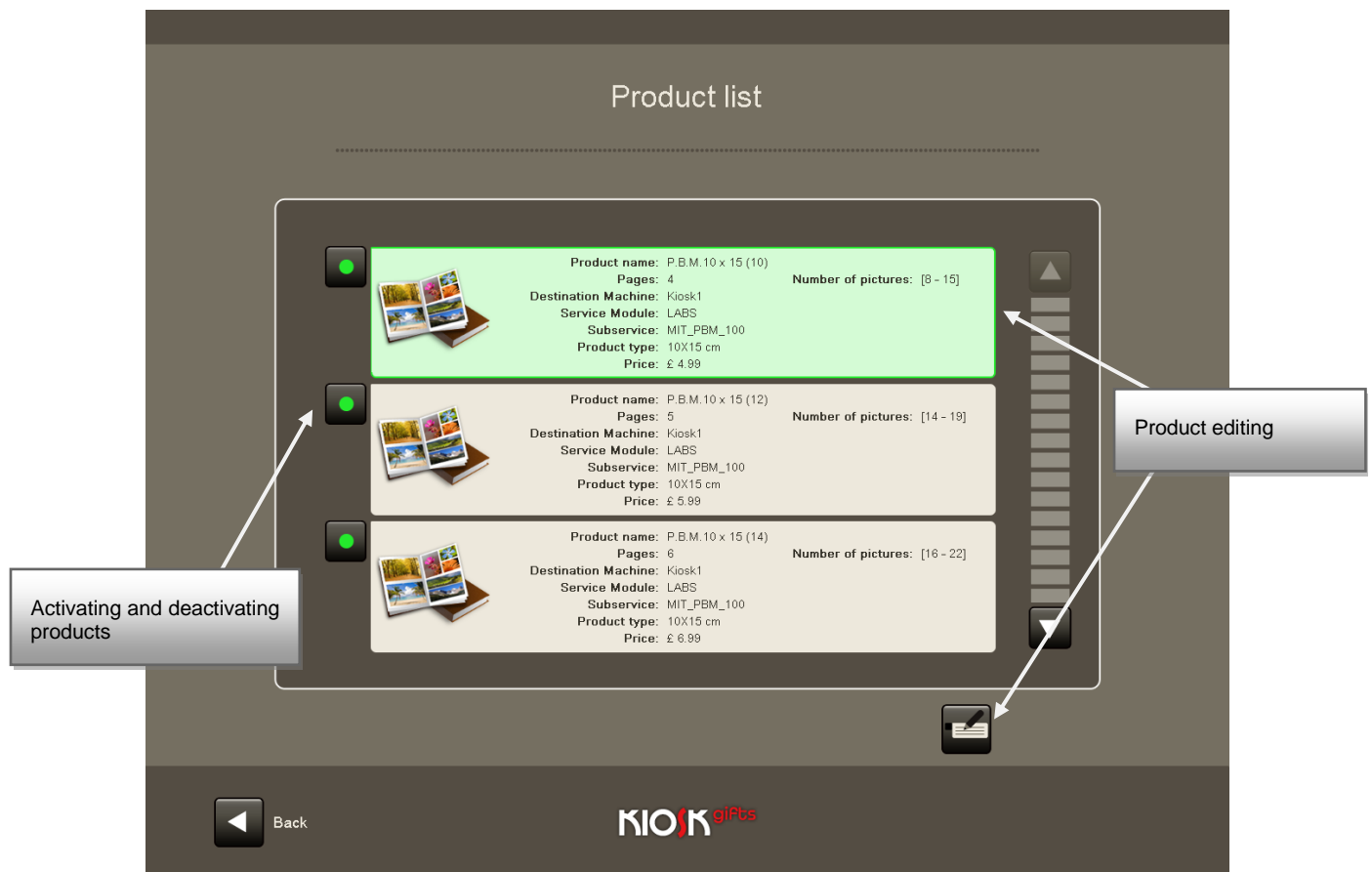
To configure the Instant Photo Album service products, select the 'Instant Photo Album' service on the settings screen and then press the 'Products' button.



The list of current products will appear. On the left of each product, marked with a green dot, those products that are activated, and consequently available to the Kiosk gifts user, will be shown.

### 6.2.3.1 Product selection

The next screen to appear shows all the existing products.



The software is configured by default with several sample products that contain the approximate price and quantity of the recommended images. The supervisor can modify the size, price and product format.

### 6.2.3.2 Product editing

Once you have chosen a theme to edit, the following screen will appear:

The screenshot shows the 'Edit products' interface. Annotations point to specific fields:

- Product icon**: Points to the 'Product icon/picture' field.
- Product price**: Points to the 'Price' field.
- Destination machine that has DPS Labs connected to a MAP**: Points to the 'Destination Machine' dropdown menu.
- On-screen button**: Points to a button with a grid icon.
- Save changes.**: Points to a green checkmark button.

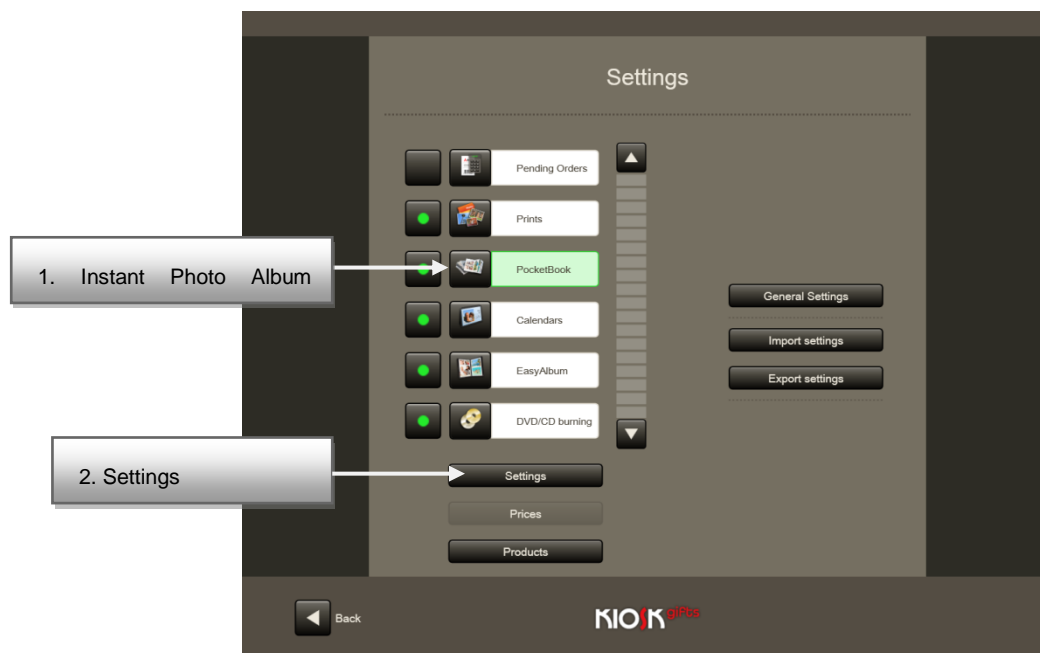
The form contains the following fields and values:

Field	Value
Reference	000000000001
Product name	P.B.M.10 x 15 (10)
Order	1
Product icon/picture	D:\MITSUBISHI\DPSPHOTOBOOK\configurations\ProductImages\Album...
Layouts path	...
Topics path	...
Number of pages	4
Price	4.99
Minimum number of pictures	8
Maximum number of pictures	15
Destination Machine	Kiosk1
Service Module	LABS
Consumable/Sub-service	MIT_PBM_100
Print size/Product type	10X15
Frame type	Normal
Frame color	White
Binding position	No binding
Binding size (%)	0
Cover	Yes
ORIENTATION	HORIZONTAL
One photo pages number	0
Text Shadow	No
Detail delivery instructions	

At the bottom, there are two buttons: a red 'X' button and a green checkmark button.

## 6.2.4 Instant Photo Album theme management

To access the theme management menu, first select the main Instant Photo Album settings menu and then click on the Settings button.



### 6.2.4.1 Enable or disable a theme

The next screen shows a list of the installed themes, and you can enable or disable them by pressing the selection button next to the theme title. If the theme is enabled, a green mark will appear before the theme; if it is not enabled, this mark will not be visible.

### 6.2.4.2 Deleting a theme

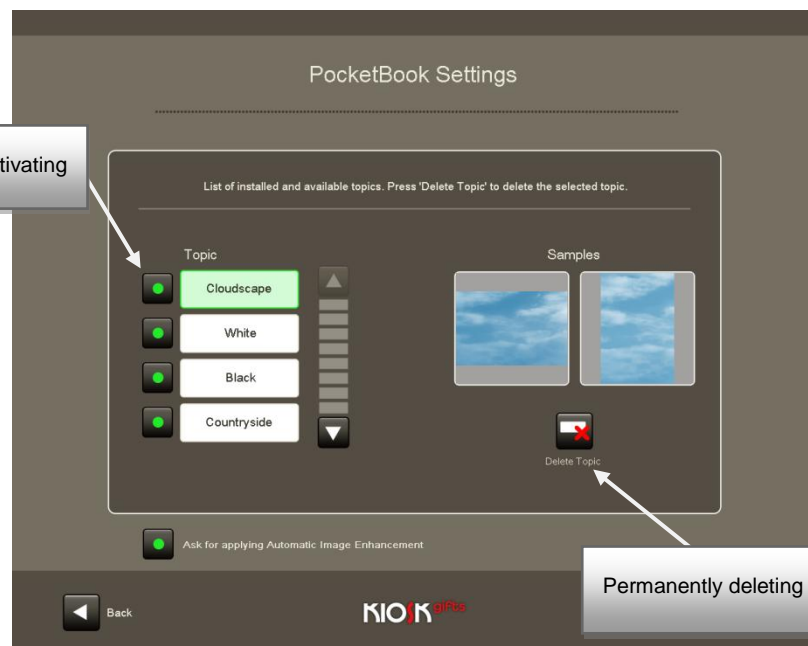
You also have the option of deleting a theme. To do so, you must select the theme to delete and then press the 'delete theme' button.

### 6.2.4.3 Enable/Disable automatic image enhancement prompt

It is possible to enable or disable the prompt asking the user whether or not to apply an automatic enhancement of images. It is recommended to leave this option checked, as the final outcome of the album is much more striking.



Activating or deactivating themes



Permanently deleting a theme

## 6.3 'Calendars' service



This service allows the customer to print his or her photographs in calendars of different sizes and formats.

### 6.3.1 Calendars: work flow

When you press the "Calendars" button on the main screen, this service will open.



Firstly, you need to select a year for the calendar. On the same screen you can also choose the type of calendar ('Full year' or 'Monthly').

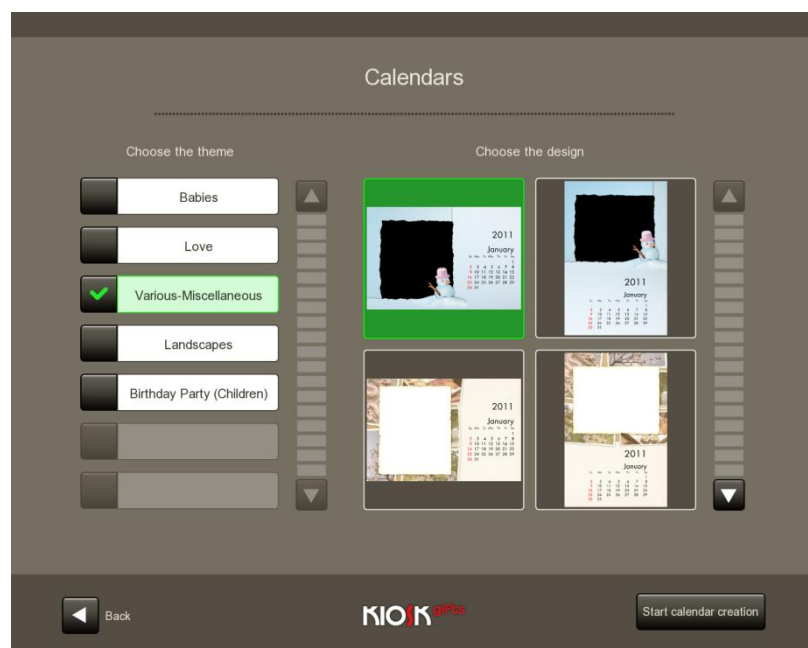
### 6.3.1.1 Monthly calendars



This option allows you to create a 12-page calendar, one page per month.

First you must select the year. Should you wish to create a monthly calendar for a period covering 2 different years, select the start year and also specify the start month. The system will then calculate the following 12 months.

To continue the process, press 'Next'. Next you can choose the theme and design of your calendar from several options. Each theme also allows you to choose a design.



Press 'Start calendar creation' to start the monthly calendar creation process. On the right of the screen you will see a help panel.



You have to select an image at the top of the screen to combine it with the calendar shown in the centre.

The monthly option uses twelve different photographs, one for each month. After selecting the image for the first month of the year, use the arrow buttons in part 3 of the help panel to move onto the next month, and add the next image of the customer's choice.

We recommend you follow the process in the given order, month by month, to avoid leaving any month 'empty' when the operator completes the whole year calendar (you cannot use the same photograph for two different months). In any case, if a month is left without a picture, a warning message will appear on screen when you press 'Next' to continue. The standard work flow then initiates.

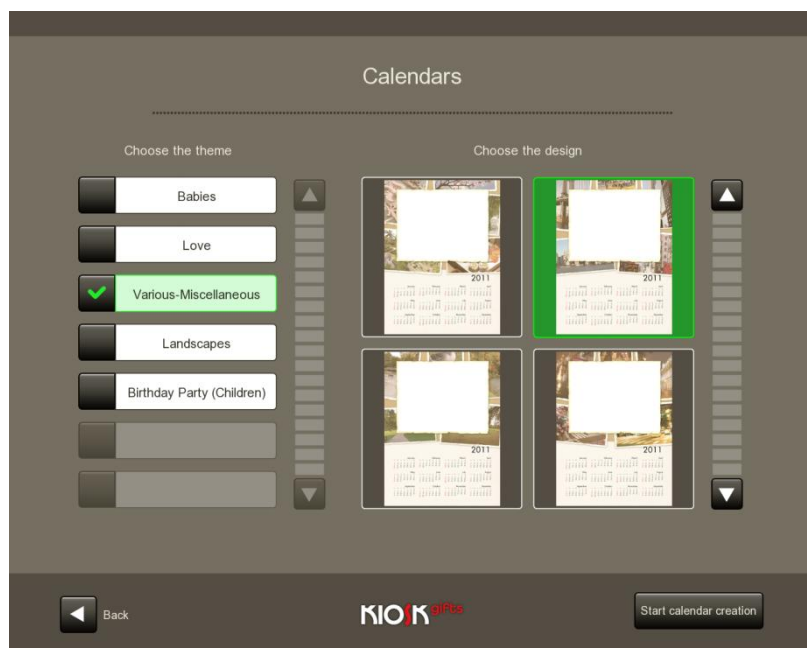
Before confirming the order, the user is asked to choose the print size and number of copies for each print size.

### 6.3.1.2 Full year calendars

You can make a calendar for a specific year, using just one page. To do so, select 'Full year calendar' and specify the required year.



Press 'Next' to choose the theme and design of your calendar from several options.



Press 'Start calendar creation' to start the full year calendar creation process.

You have to select an image at the top of the screen to combine it with the calendar shown in the centre, as with the monthly calendars.



The 'Full year calendar' option only uses one photograph for the whole year, and it is printed out on one sheet of paper.

After selecting the picture and adjusting the position on the calendar, press 'Next' to continue.

Lastly, select the sizes and number of copies required. Press 'Finish order' to continue.



### 6.3.2 'Calendars' service administration: product creation

The administration of the different products in this service is the same as the administration of the 'Prints' service, which has already been explained in this manual.

### 6.3.3 'Calendars' service administration: editing prices

The administration of the different prices for each product in this service is the same as the 'Prints' service, which has already been explained in this manual.

### 6.3.4 'Calendars' service administration: Settings

The function of this section is to keep the calendar designs library available for each year.

Each item in the list displayed on the screen belongs to a different language, displaying the first and final year of the designs available for that language.

When this service is configured, shown in the image below, the following parameters can be changed:



1. **Delete calendars.** This option will delete all the calendars on your system. This does not take into account the selected language.
2. **Delete to the previous year.** This option will delete all calendars installed until the previous year, maintaining the current year's calendars and future years. This does not take into account the selected language.
3. **Selecting the default language.** The selected language will be set as the default language. If the system language or the language selected by the end user does not match any of the calendar languages installed, the calendars defined by the default language will be displayed.

## 6.4 EasyGifts Album

EasyGifts Album is a software application that allows you to easily create instant MITSUBISHI photo albums. The product generated by the EasyGifts Album application is a collection of pages designed to create an 'EasyGifts Album' photo book.

The 'EasyGifts Album' is an instant and customised photo album, available in different sizes. Please ask your distributor for more information about it and the product reference of the MITSUBISHI EasyGifts Album solution.



10x15cm, 20 pages



20x25cm, 20 pages



15x23cm, 20 pages

The EasyGifts Album application contains a wide variety of pre-defined templates for each page (up to 8 photographs per page) with a range of decorative backgrounds that are randomly allocated to facilitate the automatic creation and customisation of each album.



## 6.4.1 EasyGifts Album Servicework flow

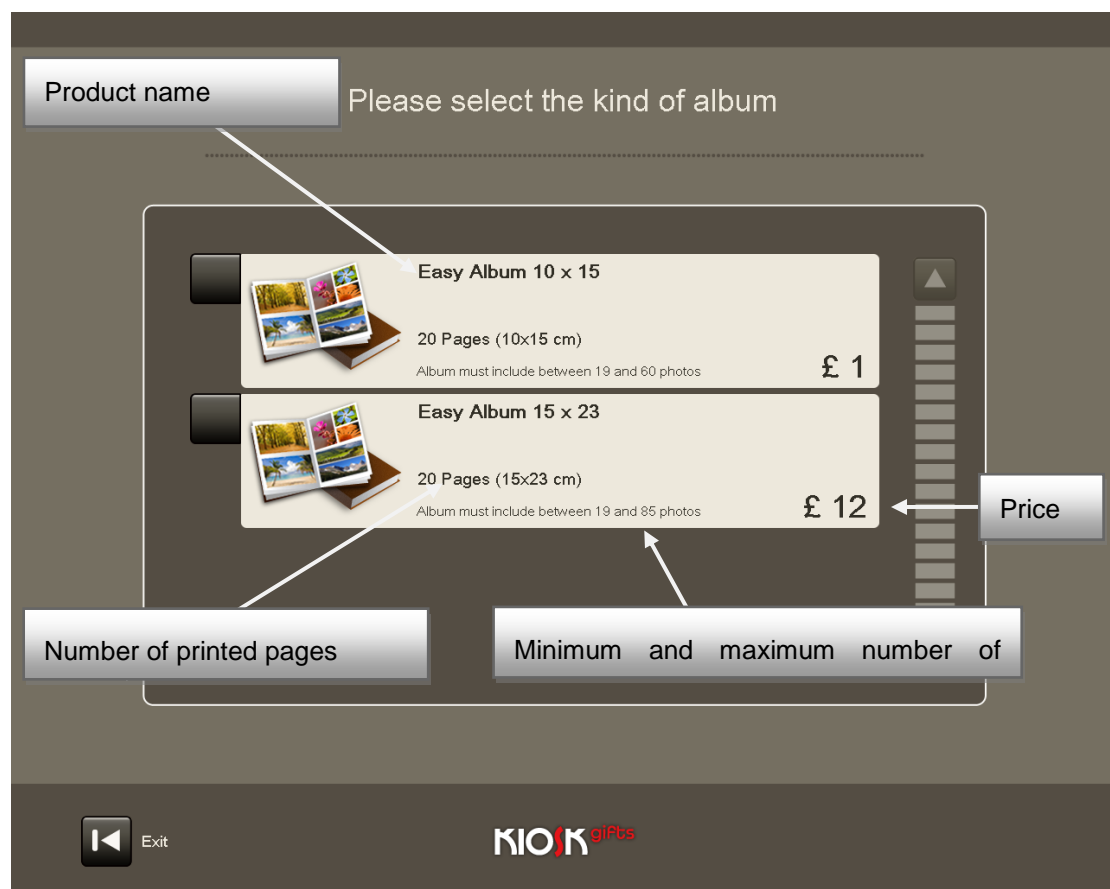
First the customer chooses the photographs to be used.

After the customer has chosen the folders with the photos, and by following the application's instructions, they can create an automatic album in just a few steps.

This chapter describes the different screens and what they mean.

### 6.4.1.1 Product selection

For printing, different products can be chosen. These are defined by the store operator and may have different settings, such as the number of pages, format, etc. Your Kiosk gifts system is configured by default with the most commonly used EasyGifts Album products, so that minimum configuration is required; for more information refer to the chapter on the EasyGifts Album product configuration.



If more than three products are defined, a scroll bar will be shown on the right.

Press the arrow keys to view all albums.

Touch the album you want to select and the unit will automatically navigate to the next option.

## 6.4.2 Create an EasyGifts Album in 6 steps.

### 6.4.2.1 Step 1. Select theme

Each theme has several backgrounds that will be applied at random to each page of the selected product.



### 6.4.2.2 Step 2. Select photographs

Once you have selected the folders that you are going to process, the following screen will appear:



#### NOTE

The screen will show the number of images that have been selected.

If you still have not selected the minimum number of images required, a message will appear to tell you how many pictures you still need. A message will also appear if you select too many images.

You cannot continue unless you select a minimum number of pictures within the established limits.

### 6.4.2.3 Step 3. Write a title for your book (optional, depending on the product settings)

Once you have selected the pictures and activated the 'Cover' option, the following screen will appear:



#### 6.4.2.4 Step 4. Select the cover (optional, depending on the product settings)

##### NOTE

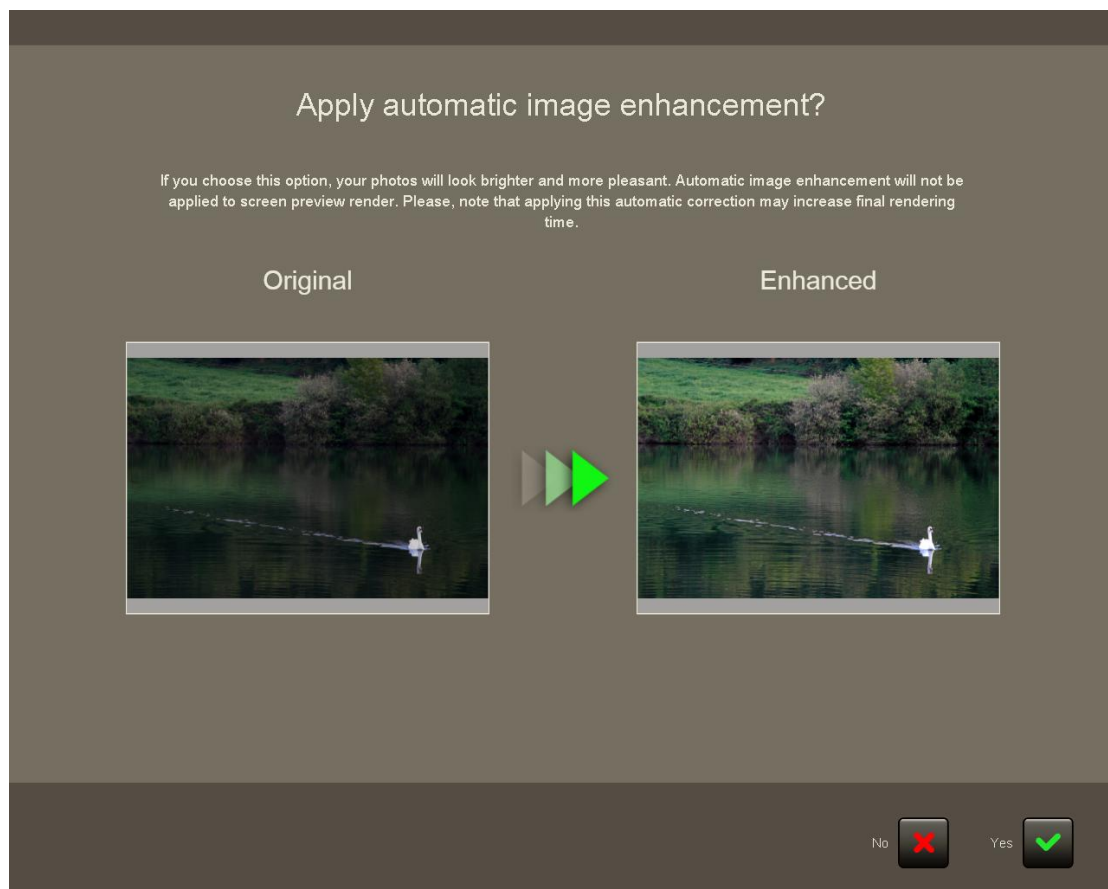
- Configuring a cover or front page is optional. It depends on the product settings that are available through the operator/supervisor's configuration.

To enable this option, please see chapter 3.2.13.

Once you have chosen a title, the following screen will appear:



Before proceeding to the next step, this screen will be displayed, or depending on the settings, the following screen.



You are asked if you want to apply the automatic enhancement of images in the album. This option corrects dark photographs by making them lighter and enhances low contrast images.

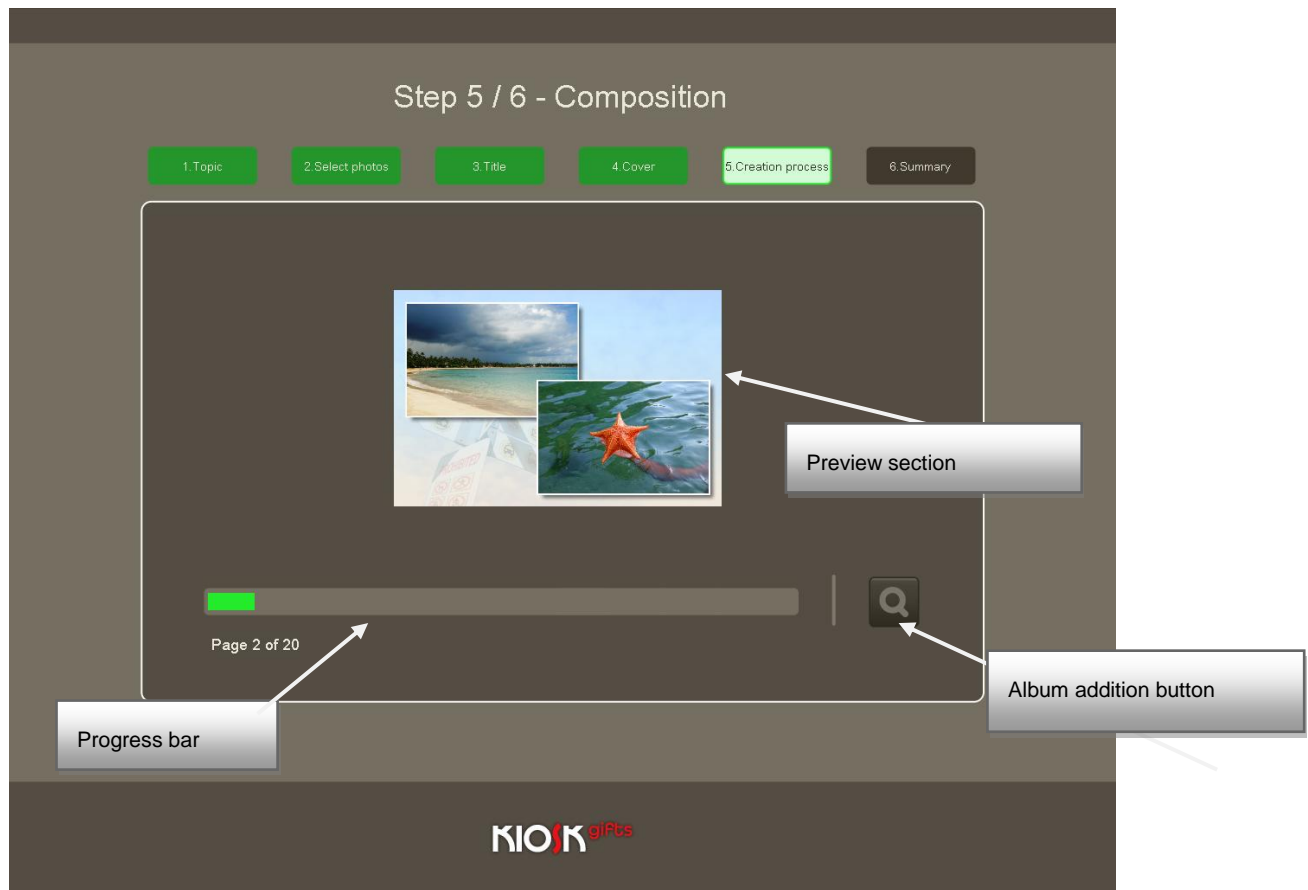
On the screen, you can see a selected sample of the user's own images displayed as an example.

Keep in mind that this process is fully compatible with the image adjustments made during the preview step and product edit, but will only be applied during the final composition of the album and, therefore, will not be reflected on the screen.

Press 'Yes' or 'No' depending on user preference.

#### **6.4.2.5 Step 5. Composition**

This function will create the composition of the chosen product, with all the information provided during the work flow.



While this is being processed, you will see a preview of the album with a progress bar. Once the process is completed, you can edit the album by pressing the 'preview album' button to adjust the position of the pictures and other parameters.

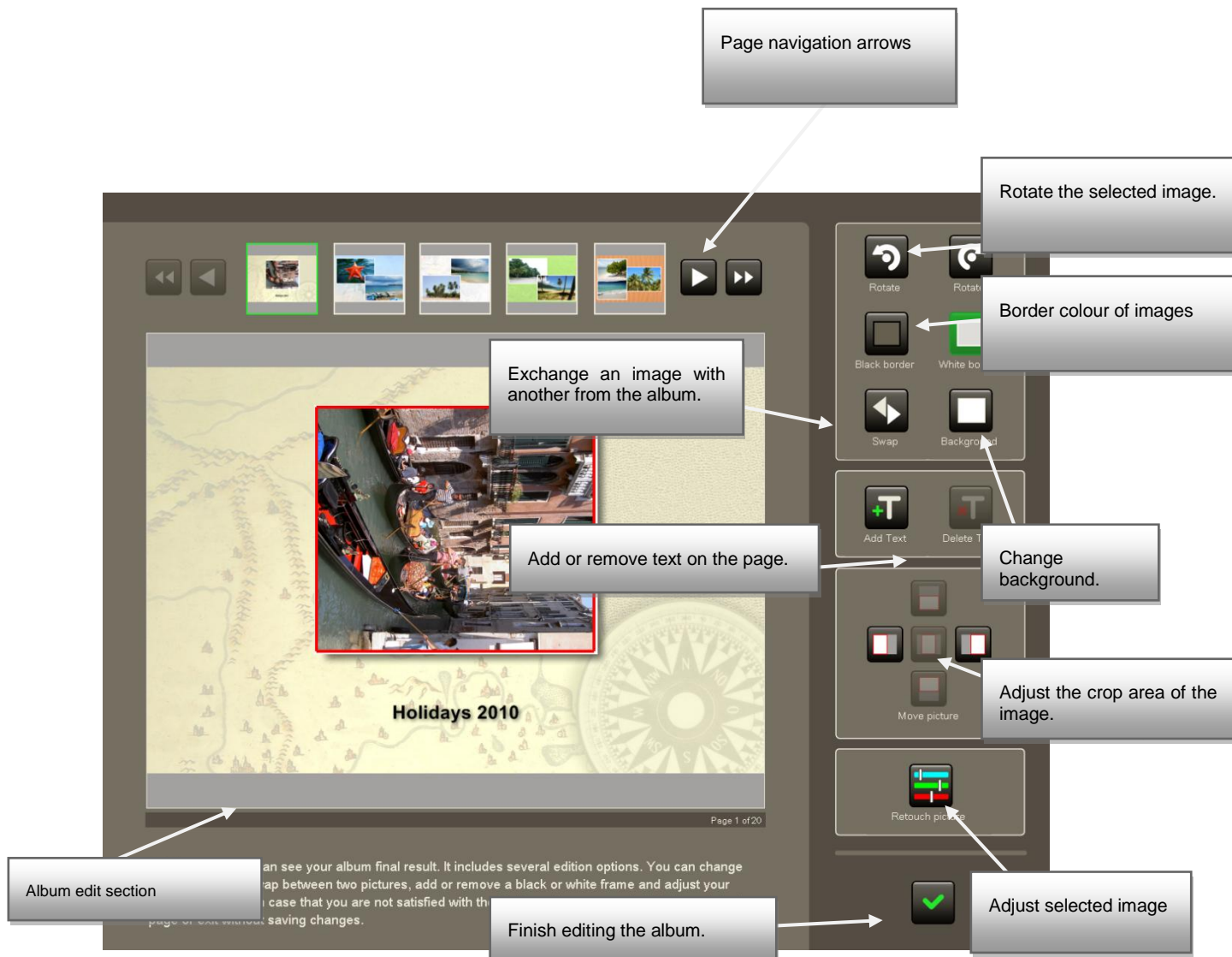
#### NOTE

- We recommend you check the product preview. You can modify the product before printing.

If you do not wish to make any modifications, press 'Next'. To continue

#### 6.4.2.6 Preview and product editing

Once you have selected the 'Preview and edit' option, the following screen will appear:

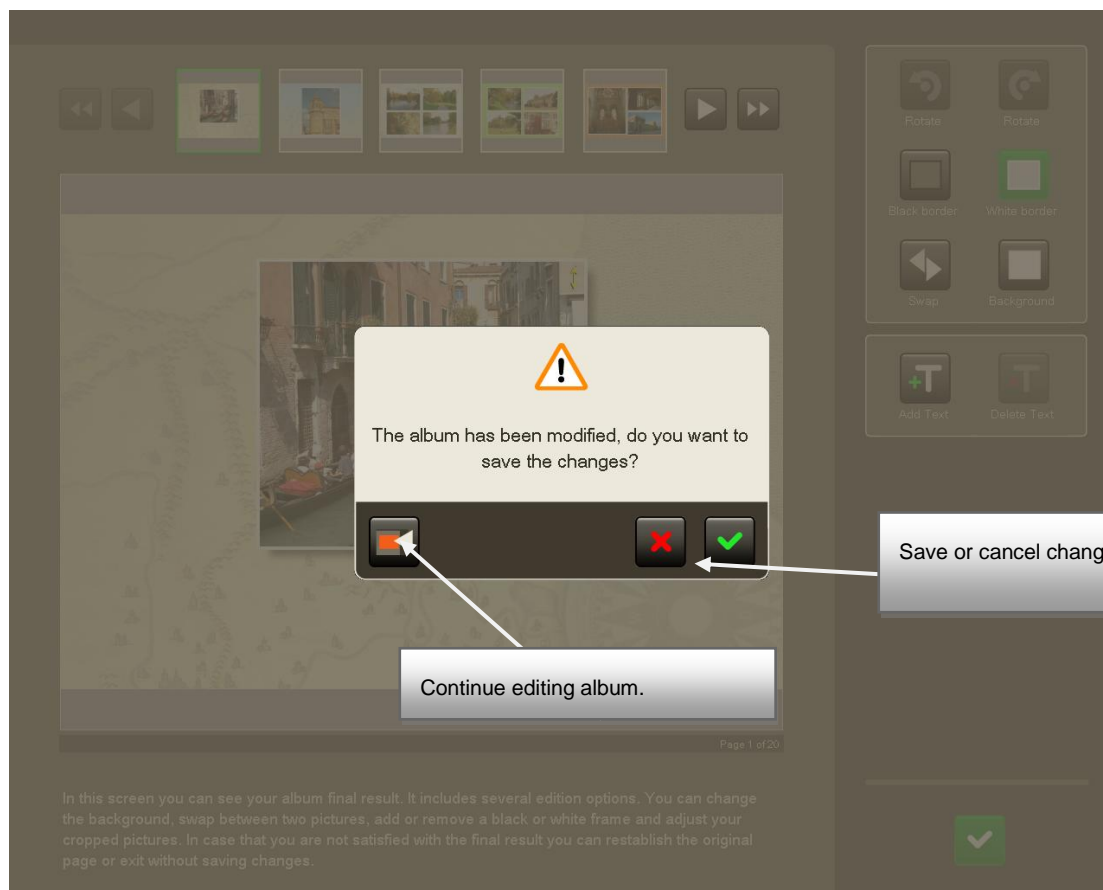


##### 6.4.2.6.1 Save changes

When the product is finished, press 'OK' to continue.

- ▶ The following screen will appear:





### 6.4.2.7 Step 6. Order summary

Once you have approved the product changes, the following screen will appear:

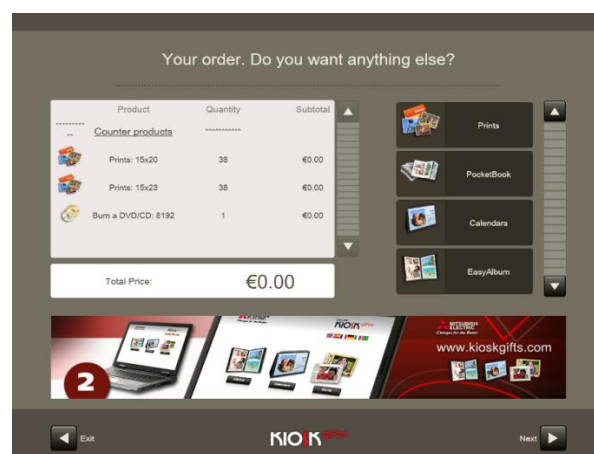


To cancel the order:  
Press 'Exit'.

To confirm the order:  
Press 'Next'.

If you have installed a ticket printer, a note will be printed out with the order details.

The next screen shows the selection of additional products so that the customer can add any other services or finish the current order, as seen in the relevant chapter.



### 6.4.3 'EasyGifts Album' service administration

Due to the vast array of options offered by the Kiosk gifts, you need to configure a set of parameters for each product in each service. Therefore, for the EasyGifts Album service, the production machine, output module and paper size must be specified for each product, among other parameters are shown below.

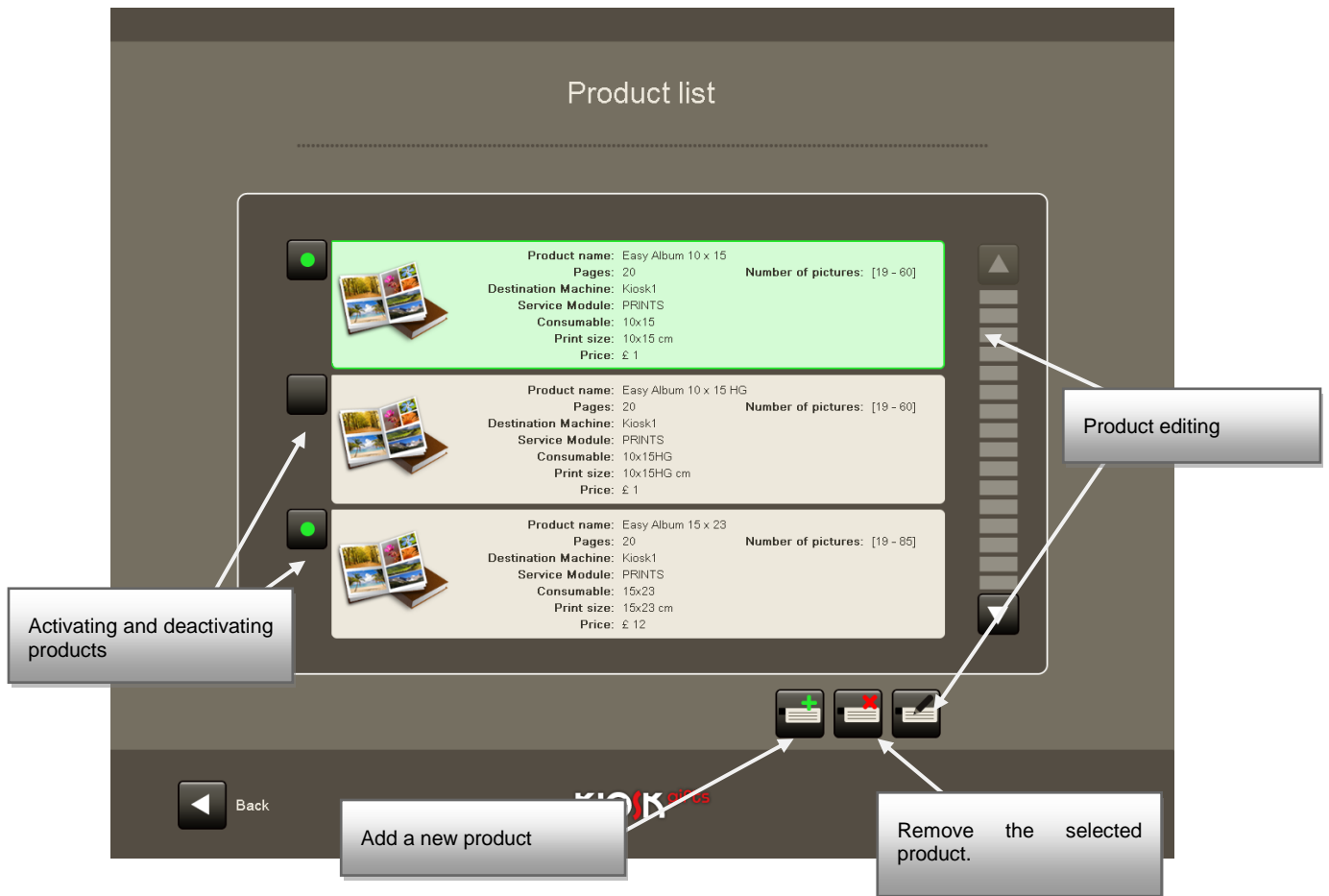
To configure the EasyGifts Album service products, select the 'EasyGifts Album' service on the settings screen and then press the 'Products' button.



The list of current products will appear. On the left of each product, marked with a green dot, those products that are activated, and consequently available to the Kiosk gifts user, will be shown.

#### 6.4.3.1 Product selection

The next screen to appear shows all the existing products.



The software is configured by default with several sample products that contain the approximate price and quantity of images recommended. The supervisor can modify the size, price and product format.

#### 6.4.3.2 Creating or editing a product

To edit an EasyGifts Album product, first select a product and then press the edit button for products mentioned above.

**Edit products**

Modify the product reference shown in the barcode.

Order in which each product is displayed

Product price

Production machine that has Dispatcher, either a kiosk or a Click.

Album printing format

On-screen button

Save changes.

Reference: 000001

Product name: Easy Album 10 x 15

Order: 1

Product icon/picture: D:\AMITSUBISHI\DPSPHOTOBOOK\configurations\ProductImages\AlbumIcon.jpg

Layouts path: ...

Topics path: ...

Number of pages: 20

Price: 1

Minimum number of pictures: 19

Maximum number of pictures: 60

Destination Machine: Kiosk1

Service Module: PRINTS

Consumable/Subservice: 10x15

Print size/Product type: 10x15

Frame type: Normal

Frame color: White

Binding position: No binding

Binding size (%): 0

Cover: Yes

ORIENTATION: HORIZONTAL

One photo pages number: 2

Text Shadow: Yes

Detail delivery instructions: ...

KIOK gifts

## NOTE

In this screen: the cursor is visible to make it easier.

If you do not have a USB keyboard connected, use the on-screen keyboard.

### 6.4.3.2.1 Reference

This field allows you to define an internal reference that will be shown on the customer order ticket and also on the Dispatcher, while the print queues are managed from a DPSClick system.

### 6.4.3.2.2 Product name

This is the product name that the customer will see.

We recommend you make the product name as descriptive as possible, to encourage customers to request that product.

### 6.4.3.2.3 Order

This number shows the product order in the product selection screen. If two products have the same order number, the one that has been created first will be shown first.

### 6.4.3.2.4 Product icon/picture

This image will be shown together with the product information. You may take an image from the end product and replace the default image.

If this field is left empty, the default image will be shown.

#### 6.4.3.2.5 Design path

This is an internal parameter that is used to change the default designs. It is left empty by default.

Please do not change it.



#### NOTE

Only qualified technician can modify this option.

Please contact your dealer or support service to modify the products' designs.

#### 6.4.3.2.6 Theme path

This is an internal parameter that is used to change the default themes and backgrounds. It is left empty by default.

Please do not change it.

#### 6.4.3.2.7 Number of pages

This option enables you to indicate the number of pages you wish the selected product to have.

(Remember that one sheet contains two pages, one on each side of the sheet).

After selecting the number of pages, you must select the minimum and maximum number of pictures that the product will contain.

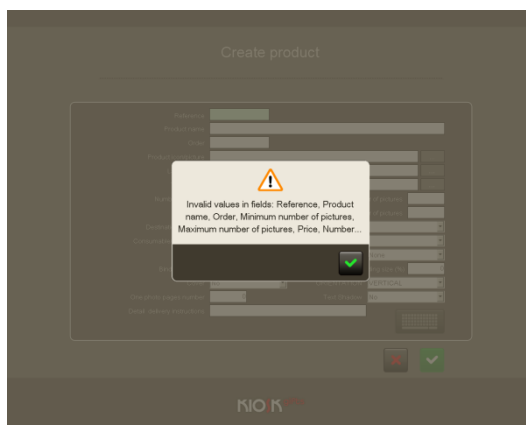
4. Minimum number of pictures: The minimum recommended number of pictures is the same as the number of pages (one picture per page).
5. Maximum number of pictures: The recommended value is  $(\text{Number\_of\_pages} - \text{Number\_pages\_with\_only\_one\_picture}) * 5$ .
6. Number of pages with only one picture: This option enables you to select the number of pages on which you wish to have only one picture. The recommended value is 20% of the total number of pages.



#### NOTE

Bear in mind that the number of pictures must be:  
equal to or higher than the number of pages.

If you exceed the limits, an error screen (see example) will appear to notify you of the problem.



#### 6.4.3.2.8 Price

This field is the end product price (including VAT and other concepts).

You can use decimal numbers in the product price.

This price will be shown in the same currency as that set in the Kernel.

#### 6.4.3.2.9 Product format

This option allows you to indicate your required print output format.

The format options are given in the drop-down list and the orientation of the print sheet is specified (horizontal or vertical).

#### 6.4.3.2.10 Frame type and colour

This option allows you to choose between different picture frame types, and to select the default frame colour (black or white). The picture frames always include an image shadow effect in the background.

#### 6.4.3.2.11 Binding position

You must use this parameter whenever the binding requires unprinted space to be left at the top left margin or at the top of the paper.

This value is set as 'NO' by default.

#### 6.4.3.2.12 Binding size

7. This parameter specifies the percentage (%) of the paper that will be left without a printed area.
8. This is only relevant if the previous parameter has been set.

#### 6.4.3.2.13 Cover

9. This option enables you to select whether or not the product will have a cover.
10. A cover has an image and a title.

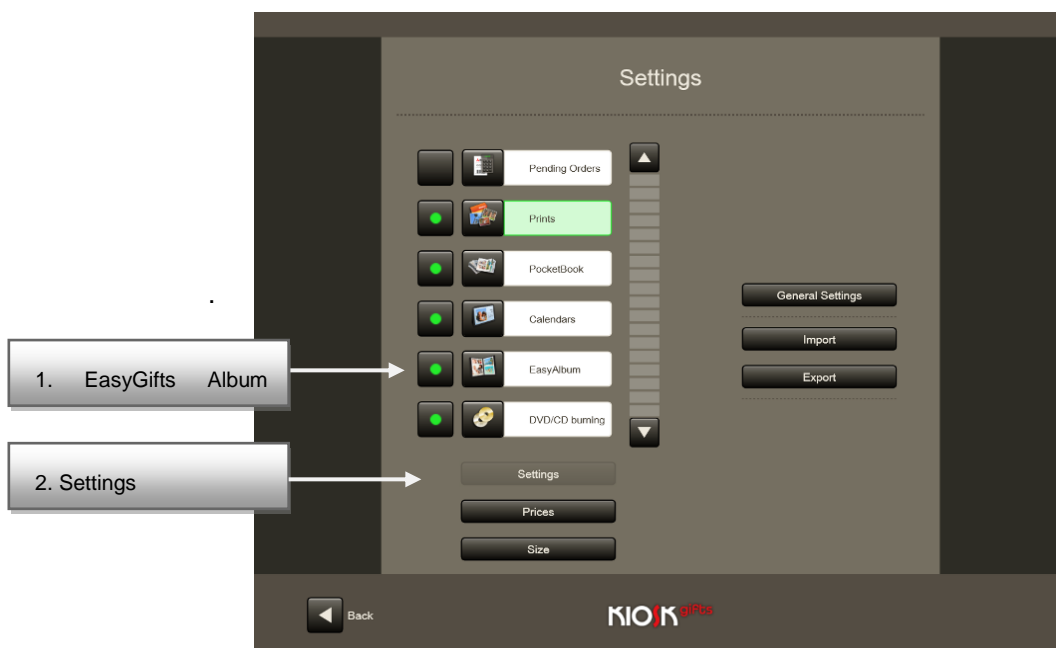


#### NOTE

Mitsubishi recommends always keeping this option activated.

## 6.4.4 Managing EasyGifts Album themes

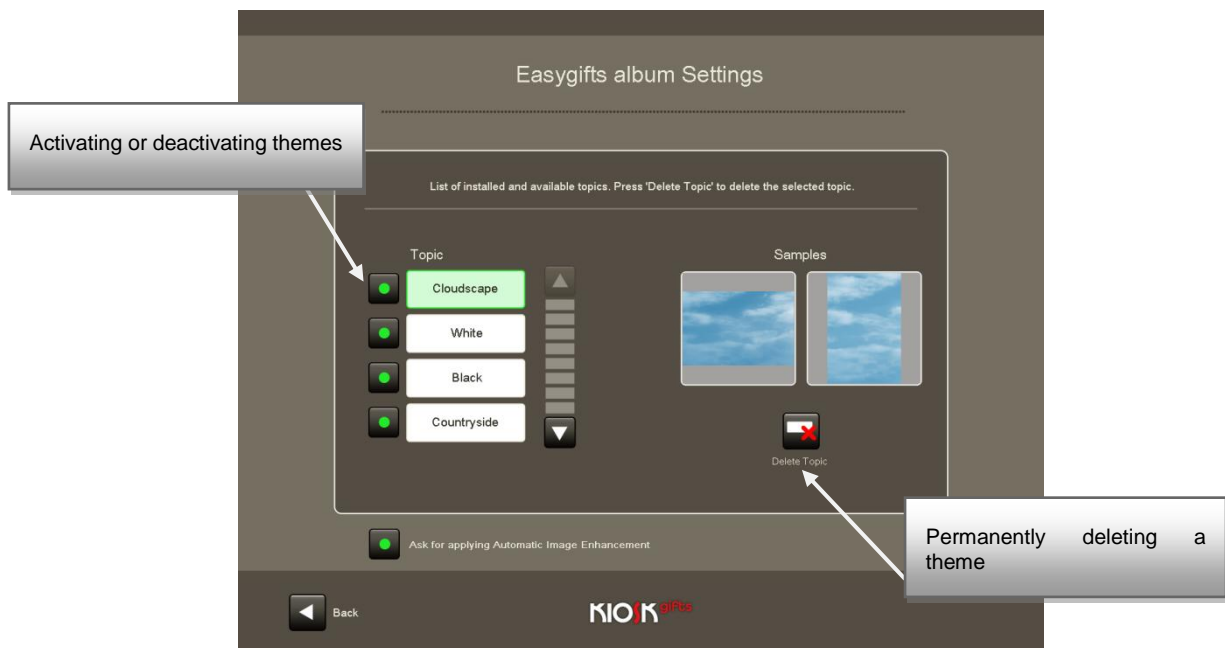
To access the theme management menu, first select the main Easyphoto settings menu and then click on the Settings button.



### 6.4.4.1 Enable or disable a theme

The next screen shows a list of the installed themes, and you can enable or disable them by pressing the selection button next to the theme's title. If the theme is enabled, a green mark will appear before the theme; if it is not enabled, this mark will not be visible. Bear in mind that when you deactivate a theme, it will also be deactivated for the Instant Photo Album service.





#### 6.4.4.2 Deleting a theme

You also have the option of deleting a theme. To do so, you must select the theme to delete and then press the 'delete theme' button. Bear in mind that when you delete a theme, it will also be deleted in the Instant Photo Album service.

#### 6.4.4.3 Enable/Disable automatic image enhancement prompt

It is possible to enable or disable the prompt asking the user whether or not to apply an automatic enhancement of images. It is recommended to leave this option checked as the final outcome of the album is much more striking.

## 6.5 DVD/CD burning

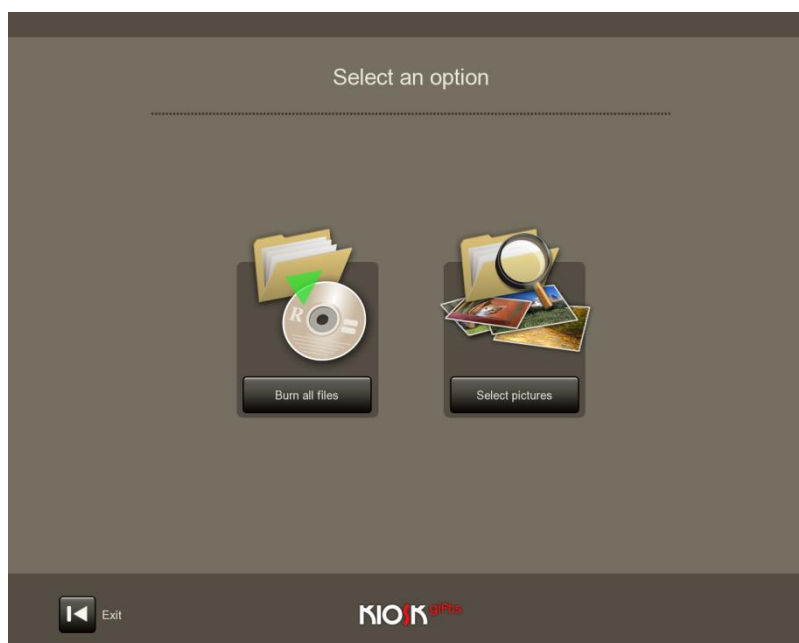


This service allows the customer to burn CDs/DVDs of his or her pictures or to make a complete copy of all his or her files.

### 6.5.1 DVD/CD burning: work flow

When you press the 'DVD/CD burning' button on the main screen, this service will open.

The following screen will then appear:



- Press the 'Burn all files' button if you wish to record all the existing files on the original medium.

- ▶ The screens explained in section c) of the 'Prints' service will now appear (Additional services: do you want to burn a DVD or CD?).
- Press 'Select photos' if you wish to record the selected photographs.

### Select photographs

When you press 'Select photographs', the following screen will appear:



To select pictures:

1. Use the arrows to show all the pictures.
2. Press on the required picture to select.
3. Press 'Yes' to copy it and 'No' to reject the selection.
  - Press 'Exit' to leave this screen.
4. Press 'Finish order' to record.
  - ▶ The screens explained in section c) of the 'Prints' service will now appear (Additional services: do you want to make an index copy?).

### 6.5.2 'DVD/CD burning' service administration: product creation

The administration of the different products in this service is the same as the administration of the 'Prints' service, which has already been explained in this manual.

### 6.5.3 'DVD/CD burning' service administration: editing prices

The administration of the different prices for each product in this service is the same as the 'Prints' service, which has already been explained in this manual.

## 6.6 Frames and greetings cards

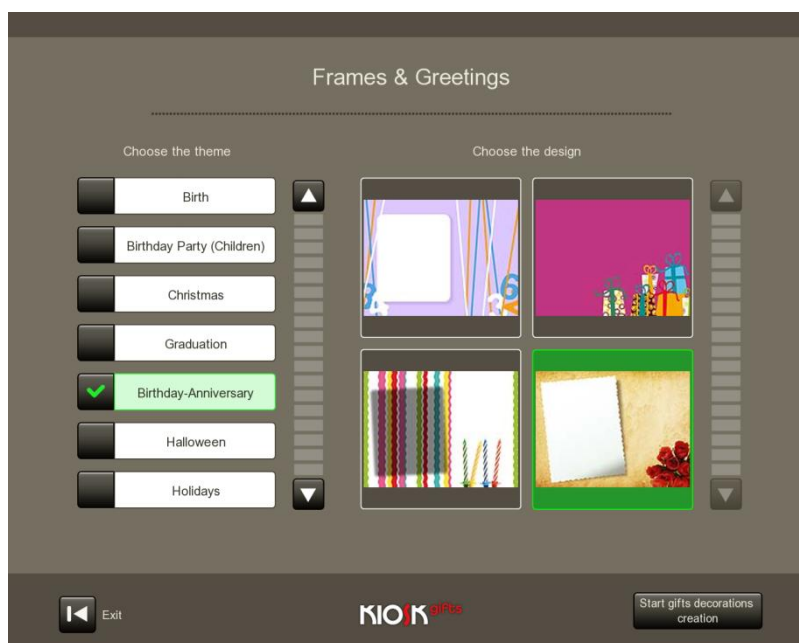


This service allows the customer to add decorative frames to his or her photos, and to create greetings cards with those same photos, or print them out in different formats.

### 6.6.1 Frames and greetings cards: work flow

When you press the 'Frames & Greetings' button on the main screen, this service will open.

The theme and design selection screen will appear next.

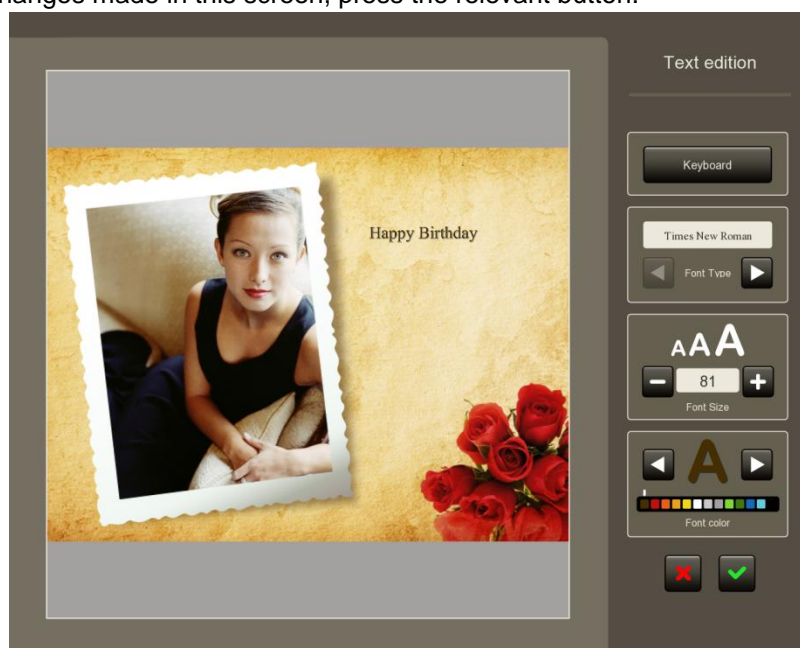


Once you have selected the design, you will need to select the photograph, and then the resulting greetings card will be shown.



Certain designs may include a specific text, such as 'Merry Christmas', 'Happy Holidays' etc., or a default text, such as 'Insert text'. Regardless of the content, the text can always be modified by the end user.

Press 'Edit Text' to change the font type, size and colour, and the text itself. To accept or cancel the changes made in this screen, press the relevant button.



Once you have the picture in place and you have defined the text and its characteristics, press 'Next' to continue.

Before confirming the order, the user will be asked to choose the print size and number of copies for each print size, as indicated in the previous section on calendars.

### 6.6.2 'Frames and Greetings' service administration: product creation

The administration of the different products in this service is the same as the administration of the 'Prints' service, which has already been explained in this manual.

### 6.6.3 'Frames and Greetings' service administration: editing prices

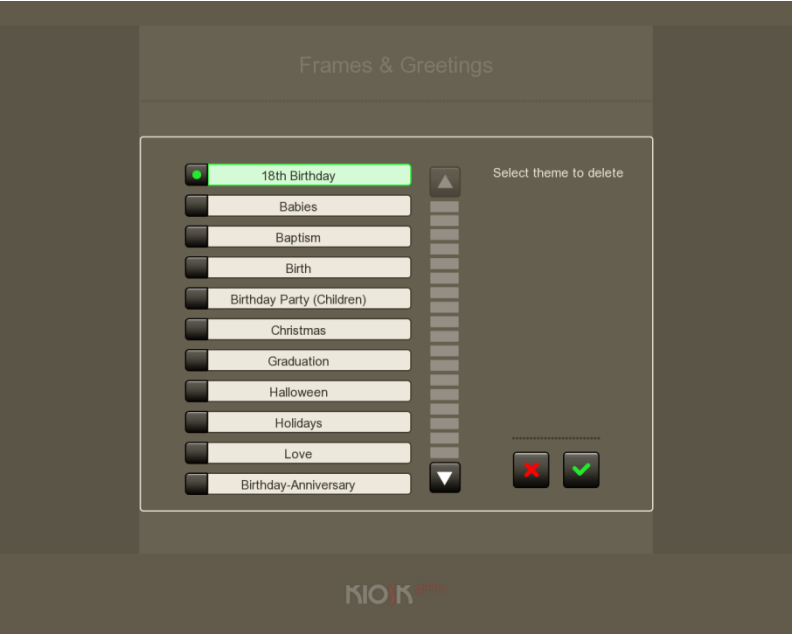
The administration of the different prices for each product in this service is the same as the 'Prints' service, which has already been explained in this manual.

### 6.6.4 'Frames and Greetings' service administration: Settings

When this service is configured, as shown in the image below, the following parameters can be changed:



1. **Editing fonts** This option lets you choose which fonts may be used to generate frames and greetings.
2. **Delete all** This option will delete all the frames and greetings on your system.
3. **Delete specific themes** This option allows you to remove frames and greetings theme by theme.





## 6.7 Compositions

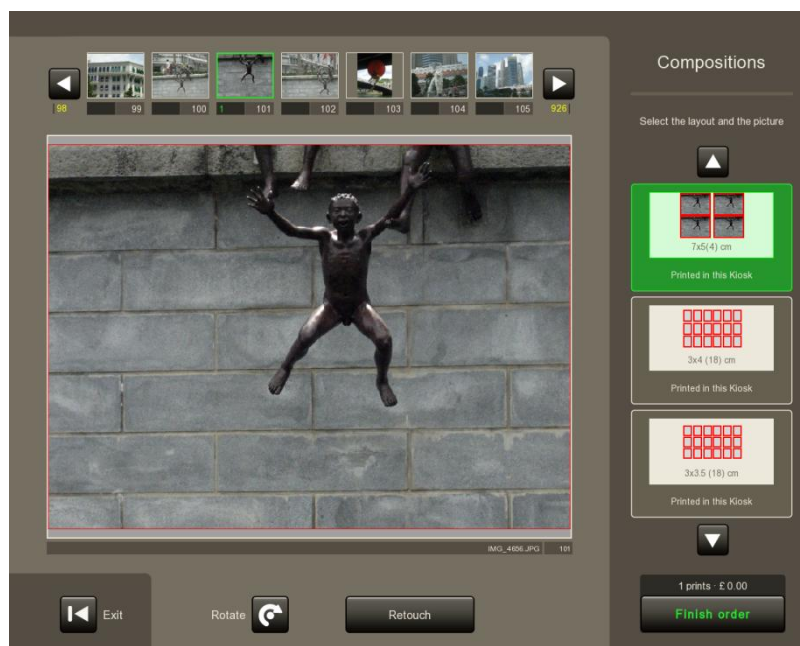


This service enables the customer to print a picture in different sizes on the same page.

### 6.7.1 Compositions: work flow

When you press the 'Compositions' button on the main screen, this service will open.

The 'Create a composition' screen will appear next.

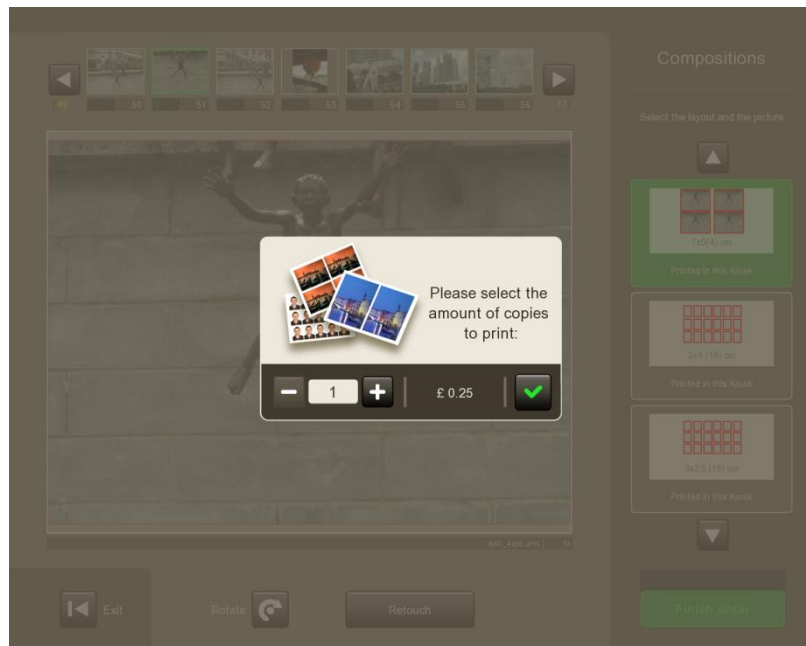


Once you have selected the composition, you will need to select the photograph, and then you will be shown a preview of the resulting composition.



Once you have the picture in place and you have defined the text and its characteristics, press 'Next' to continue.

Before confirming the order, the user will be asked to choose the number of copies.



### 6.7.2 'Compositions' service administration: product creation

The administration of the different products in this service is the same as the administration of the 'Prints' service, which has already been explained in this manual.

### 6.7.3 'Compositions' service administration: editing prices

The administration of the different prices for each product in this service is the same as the 'Prints' service, which has already been explained in this manual.

## 6.8 Collage

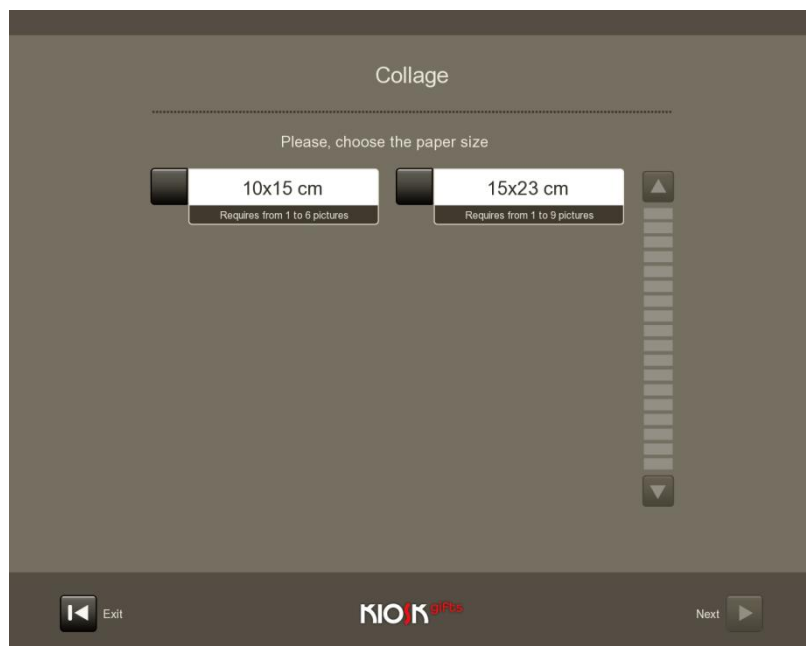


This service enables the customer to create a composition with different pictures on a decorative background.

### 6.8.1 Collage: work flow

When you press the 'Collage' button on the main screen, this service will open.

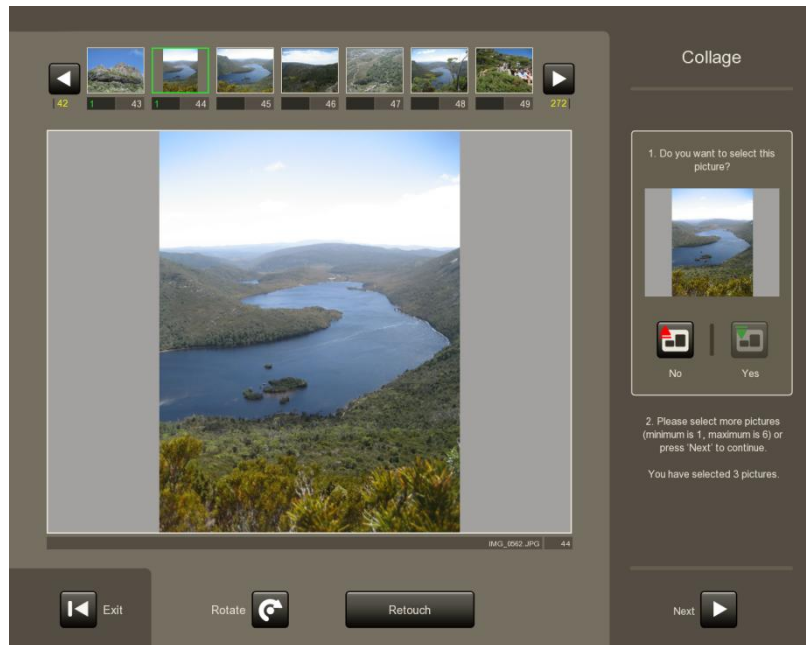
The paper size selection screen will appear next.



Once you have selected the size, you will need to select the photographs that will make up the mosaic.

To select pictures:

1. Use the arrows to show all the pictures.
2. Press on the required picture to select.
3. Press 'Yes' to copy it and 'No' to reject the selection.

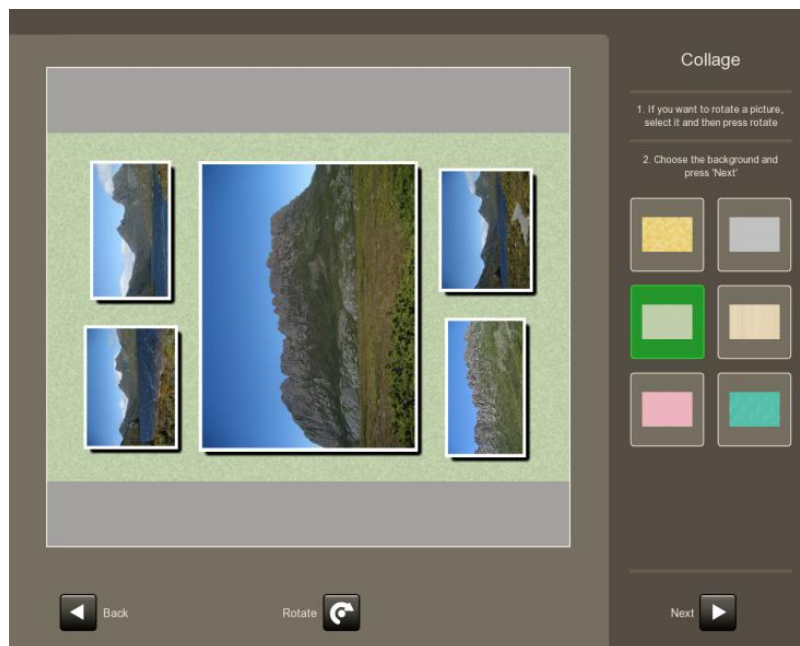


There is a minimum and maximum number of pictures that you can select. Both numbers depend on the previously selected print size.

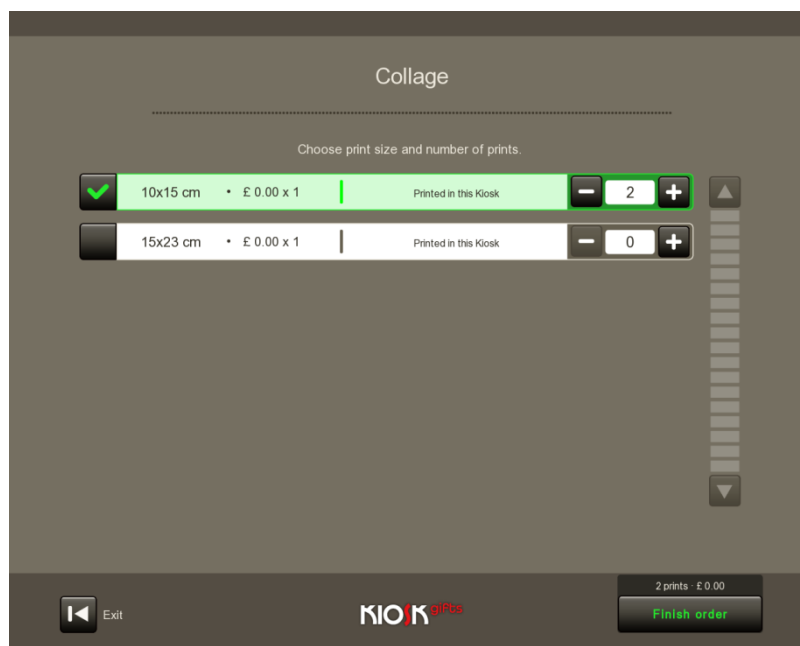
Next you will need to select the design from a number of options.



The collage photos can be rotated by selecting them and then pressing the 'rotate' button. You can choose the background colour from the same screen.



Next you need to select the size and number of copies to continue the work flow.



### 6.8.2 'Collage' service administration: product creation

The administration of the different products in this service is the same as the administration of the 'Prints' service, which has already been explained in this manual.

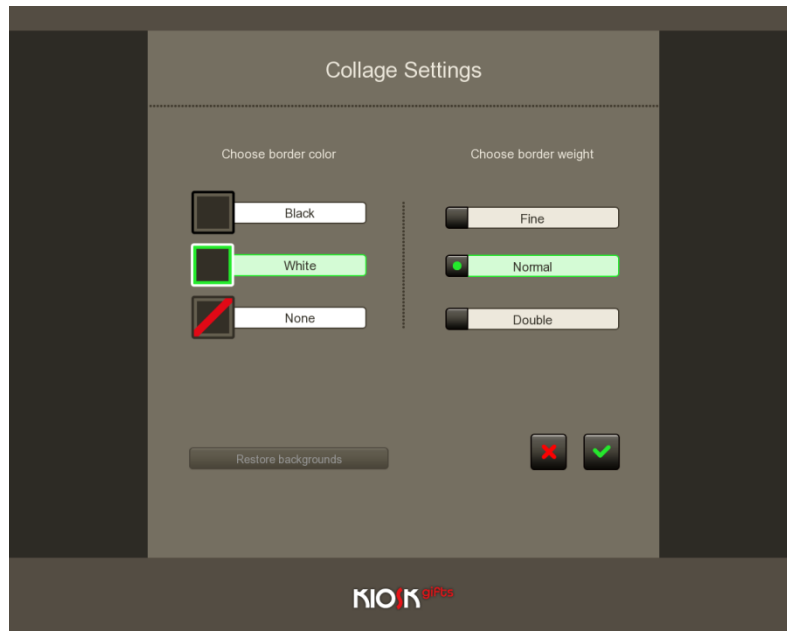
### 6.8.3 'Collage' service administration: editing prices

The administration of the different prices for each product in this service is the same as the 'Prints' service, which has already been explained in this manual.

#### 6.8.4 'Collage' service administration: Settings

The function of this part is to select the colour and thickness of the frame which will be applied to each image of the collage.

When this service is configured, as shown in the image below, the following parameters can be changed:



1. **Edge colours.** This option lets you choose between white, black or no border.
2. **Edge thickness.** This option lets you choose between fine, normal and double.

## 6.9 Mosaic poster

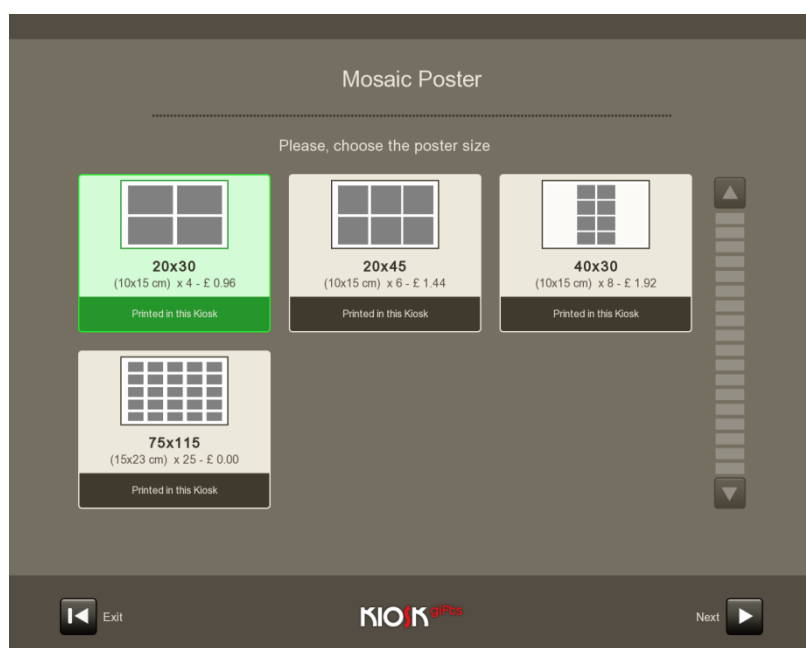


This service enables the customer to create a mosaic-type poster using parts of a picture that has been printed on different pages.

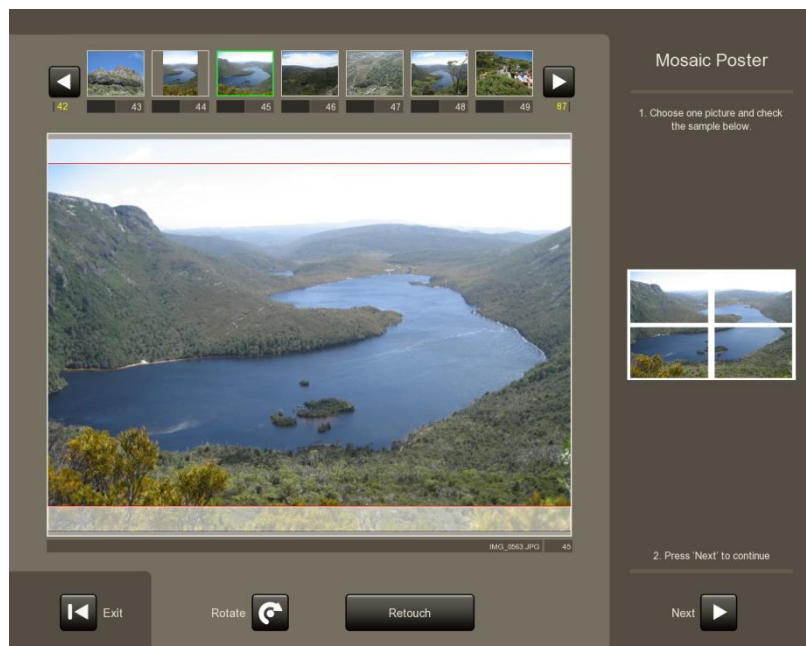
### 6.9.1 Mosaic poster: work flow

When you press the “Mosaic Poster” button on the main screen, this service will open.

The poster size selection screen will appear next. Depending on the set paper sizes, different mosaic sizes will appear.



Once you have selected the size, you will need to select the photograph and then the mosaic poster will be shown.



Once you have the picture in place and are happy with the result, press 'Next' to finish the order.

### 6.9.2 'Mosaic Poster' service administration: product creation

The administration of the different products in this service is the same as the administration of the 'Prints' service, which has already been explained in this manual.

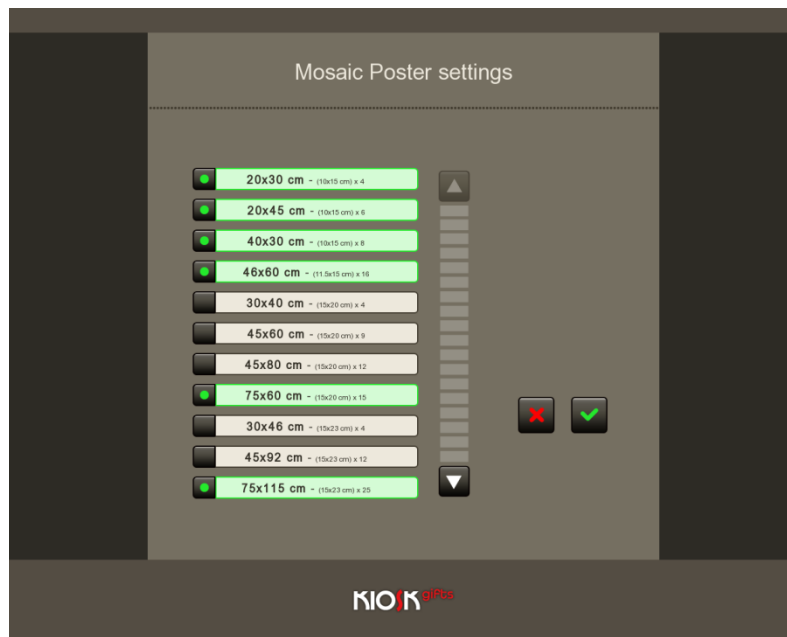
### 6.9.3 'Mosaic Poster' service administration: editing prices

The administration of the different prices for each product in this service is the same as the 'Prints' service, which has already been explained in this manual.

### 6.9.4 'Mosaic Poster' service administration: Settings

The function of this part is to select the compositions of the mosaic poster that will be activated.

When this service is configured, as shown in the image below, the following parameters can be changed:



1. **Composition enabled or disabled.** This option allows you to enable or disable each mosaic poster format.



## 6.10 'Kiosk gifts online' service



This service enables the customer to make their orders online at <http://www.kioskgifts.com>. This website allows you to create calendars, greetings cards and albums from the comfort of your own home using an online application. The customer will obtain the order in electronic format, which he or she must take to the store in a compatible medium (USB drive, memory card, etc.), to be printed.

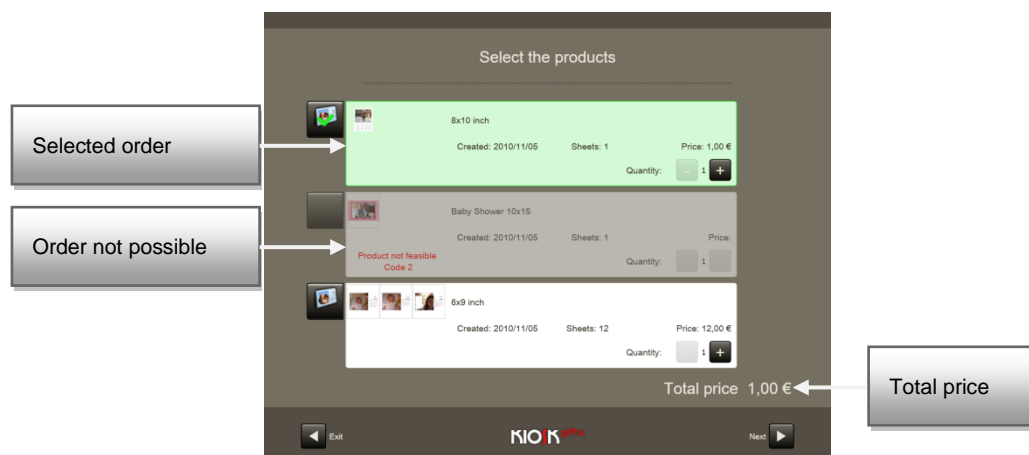
### NOTE

Services available on the Kiosk gifts website may be available on the store Kiosk and selected by the customer. Wherever possible, the store must inform its usual customers before they prepare their orders from home.

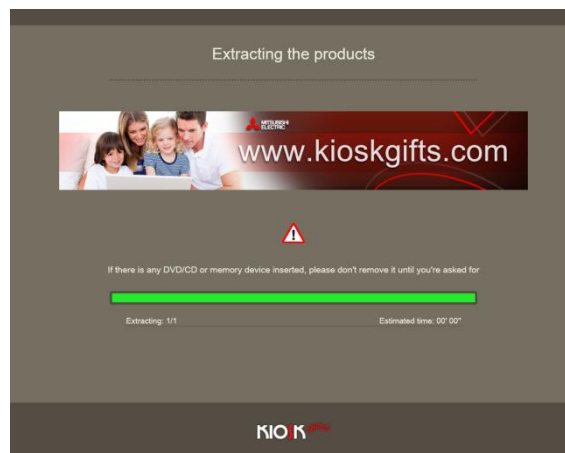
### 6.10.1 'Kiosk gifts online' service: work flow

Once you have selected the device onto which the online orders have been saved, you move on to the following steps:

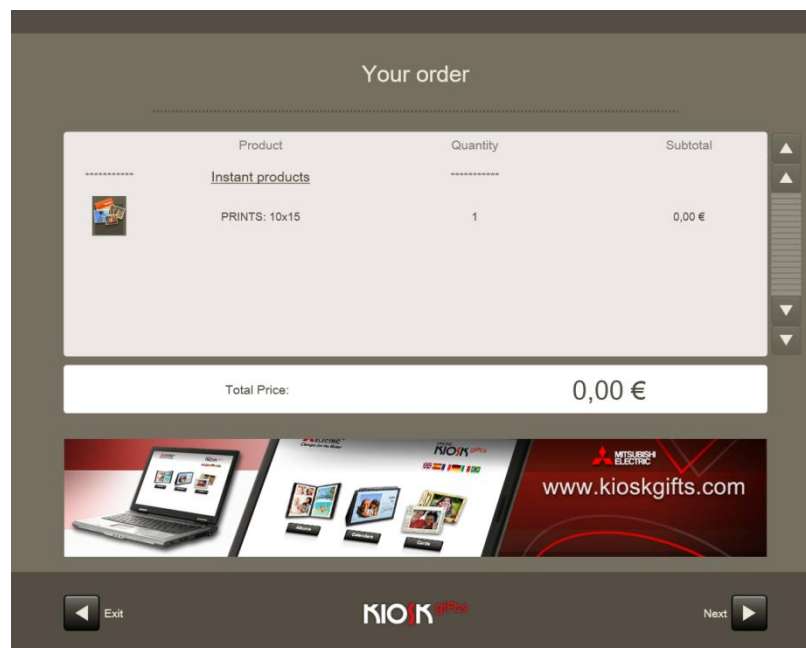
- A list of all the orders contained on the device is shown. The customer can select those that he or she wishes to complete, and at all times the total price of the selected orders will be visible. If an order can not be performed then it can not be selected.



- b) The system will read the order information and create the necessary files for production. Depending on the amount of orders selected and the number of pictures in each order, this operation may take a few seconds or several minutes.



- c) The service is closed and a summary of the order is displayed. Unlike other services, you cannot add new products.

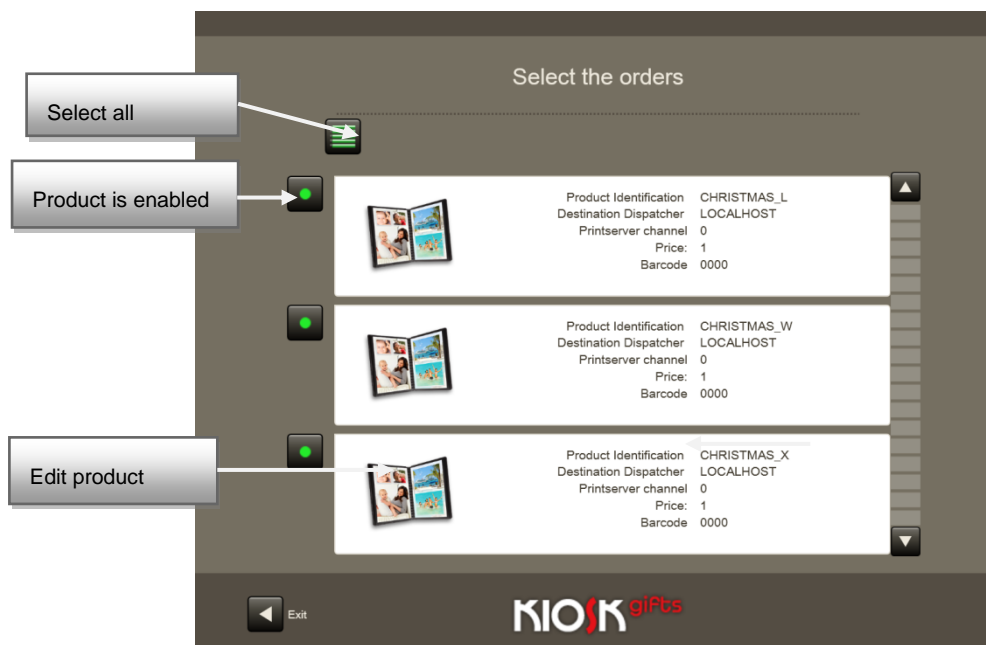


### 6.10.2 'Kiosk gifts online' service administration: product creation and price editing

To configure the Kiosk gifts service products, select the 'Kiosk gifts online' service on the settings screen. Next, press the 'Products' button.



The list of current products will appear. On the left of each product, marked with a green dot, those products that are activated, and consequently available to the Kiosk gifts user, will be shown.



The following information is shown for each product on the list:

- Product ID, including:
  - type of product
  - print format
- Product price
- Product reference

Press on any of the listed products, and the product edit screen will appear.

The screenshot shows the 'Edit Product' interface. On the left, four grey boxes with white text are connected by arrows to specific fields on the right. The boxes are labeled 'Product identifier', 'Production machine', 'Price', and 'Product reference'. The 'Edit Product' form contains the following fields: 'Product Identification' (with value 'CHRISTMAS\_L'), 'Destination Dispatch' (with value 'Kiosk1'), 'Printserver channel' (with value '0'), 'Price' (with value '1'), and 'Barcode' (with value '0000'). Below these fields are two buttons: a red 'X' and a green checkmark. At the bottom of the screen is a numeric keypad with buttons for digits 1-9, 0, and a decimal point, along with the 'KIOSK gifts' logo.

The following values can be modified on this screen:


- Production machine to which the product will be sent.

According to the system settings, more than one option may appear. These could be the Kioskgifts itself (in stand-alone mode), another Kioskgifts machine (as is the case in a Kiosk isle), or a Click5000.

If you change the production machine for a product, you will be asked if you wish to apply the same change to all products.
- Product price
- Product reference This value is optional: it is only useful in those cases where you are using barcodes or a different numerical code for each product that appears on the customer ticket.

### 6.10.3 When an order is not possible in the 'Kioskgifts online' service: error codes

There are several reasons why an ONLINE Kioskgifts order may not be possible to complete. When this occurs in the order itself, an error code will specify the problem. This code is not designed for the end customer, but for the operator in order to understand what the problem is.



Baby Shower 10x15  
Created: 2010/11/05    Sheets: 1    Price:

Error code

Product not feasible  
Code 2

Quantity:

Error code	Description	Solution
1	Invalid product setting	The product on the website is new and your software has not been updated
2	Unknown product ID	The product on the website is new and your software has not been updated
3	Product disabled	Enable the product from the product settings
4	Unknown product type	The type of product sent from the website is new and your software has not been updated
5	Invalid production machine	Correctly configure the product from the product settings
6	Service module not started	Check that the service (PRINTS/LABS) associated with the product has been started
7	Consumable does not exist	Check that the consumable associated with the product is not excluded in the format filter
8	Incorrect group	The product setting on the website is new and your software has not been updated
9	Incorrect number of pages	The order is damaged and cannot be processed
10	Incorrect data format	The order is damaged and cannot be processed
11	Invalid customer order (there is no order information)	The order is damaged and cannot be processed
12	Invalid customer order (there are no pictures in the order)	The order is damaged and cannot be processed
13	Invalid customer order (there are no miniatures in the order)	The order is damaged and cannot be processed

## 6.11 'Pending orders' service

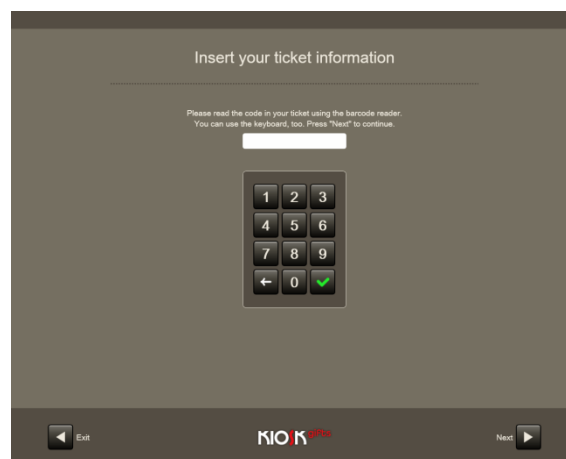


This service allows the customer to process the orders prepared in any of the terminals that form part of a kiosk isle.

### 6.11.1 'Pending orders' service: work flow

After selecting the pending orders service, the user will be asked to give the relevant order information. Depending on how this service is configured, different screens will then appear:

- a.1) If the pending orders service is configured in automatic mode (recommended if you have a barcode scanner) the following screen will appear. The customer must place the ticket under the barcode scanner to be read.



a.2) If the pending orders service is configured in manual mode, the user must type in the order number and validation code shown on the ticket.

Insert your ticket information

Insert the values of order number and validation code of your ticket

Order number

Validation code


1 2 3  
4 5 6  
7 8 9  
← 0 ✓

Exit



KIOK gifts

b) The service will conclude and an order summary shown. Unlike other services, no new products can be added.

Your order

Product	Quantity	Subtotal
Instant products		
 PRINTS: 10x15	1	0,00 €

Total Price: 0,00 €

  [www.kioskgifts.com](http://www.kioskgifts.com)

Exit Next

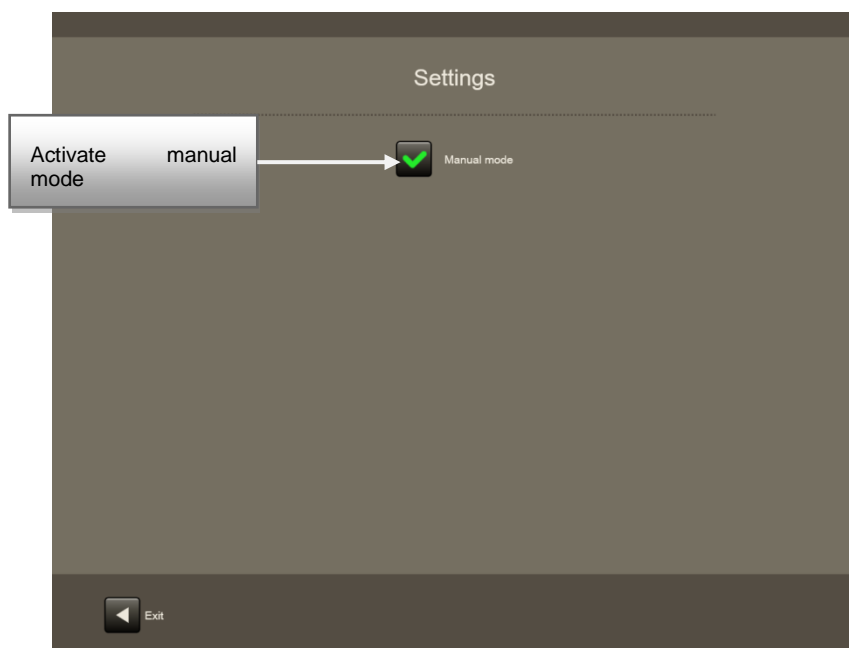
KIOK gifts

### 6.11.2 'Pending orders' service administration: general settings.

Depending on whether you have a barcode scanner or not, you can change the way in which order information is inserted. To configure the service mode, select the 'Pending orders' service on the settings screen. Next, press the 'Settings' button.



A screen will appear that enables you to set the machine to manual mode. This mode is only recommended if you do not have a barcode scanner or if the existing one does not work properly.





## 6.12 Customised Products



With this service, it is possible to offer photo gifts in the Kiosk gifts, such as mugs, t-shirts, key-chains, etc., with a photo selected by the customer.

In the definition of each product, it is specified if it will use a printed image with the MITSUBISHI dysub printers or third-party technologies (sending to remote labs or special printing systems located in the same store.)

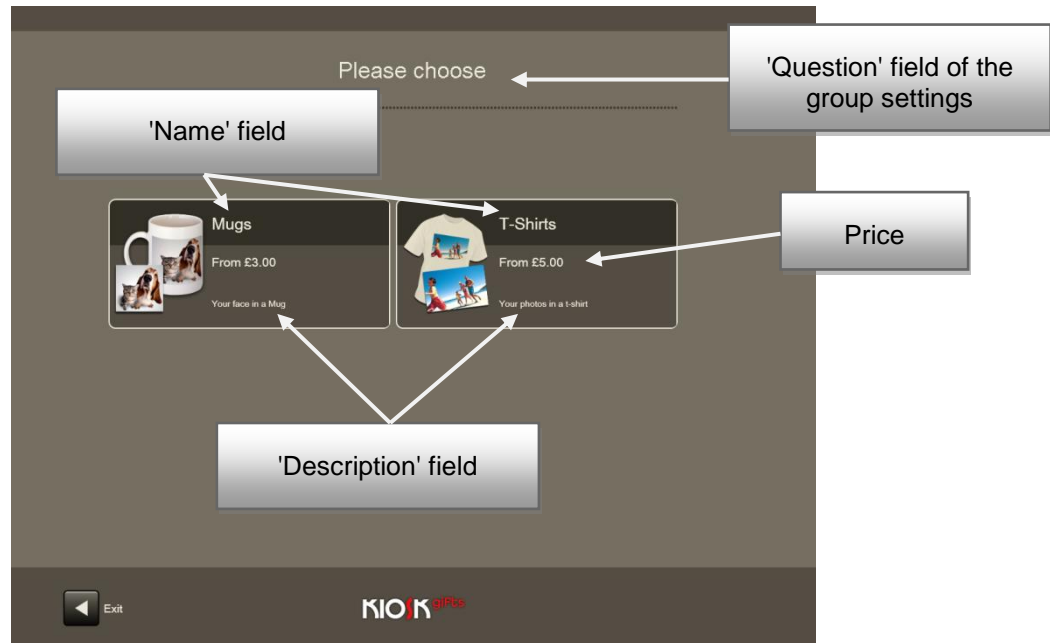
It is important to know in advance that the Kiosk gifts unit does not provide a list of products by default. The store must know in advance what type of products are offered and how they will produce them. The creation of the list of products on offer, and all the parameters and additional resources, is the responsibility of the store or chain.

### NOTE

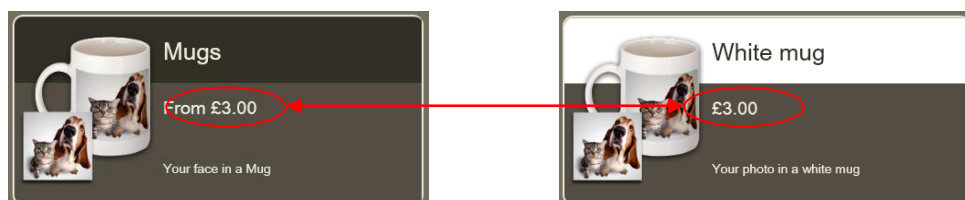
The laboratory service from the Customised service requires the use of an additional license. Please refer to the additional licenses chapter for more information.

### 6.12.1 Customised Service: work flow

Once you press the 'Customised' button on the home screen, the service will begin and request the selection of photos to be worked on. The first screen of 'Customised' contains the first groups defined.



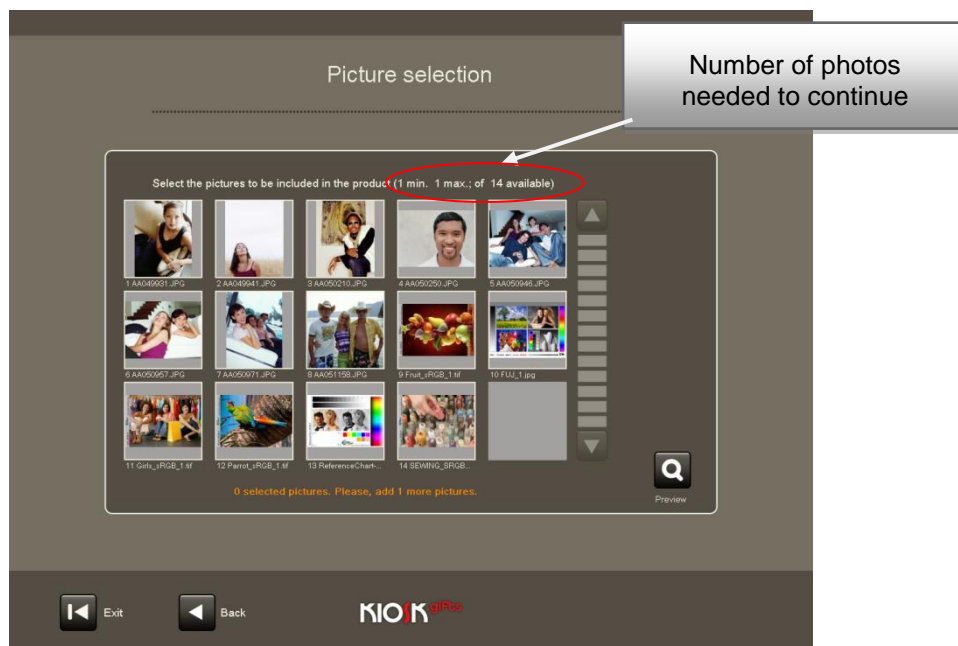
In the case of a gift, this is the price of the gift itself. However, if it is a group, it is the most affordable price belonging to the group



You can tell if an item is a group or gift by the background colour of the title and the label accompanying the price.

- Dark indicates that this is a group and is included with the label and price.
- White indicates that it is a gift.

After choosing the gift to be made, the screen where the image is selected is displayed.

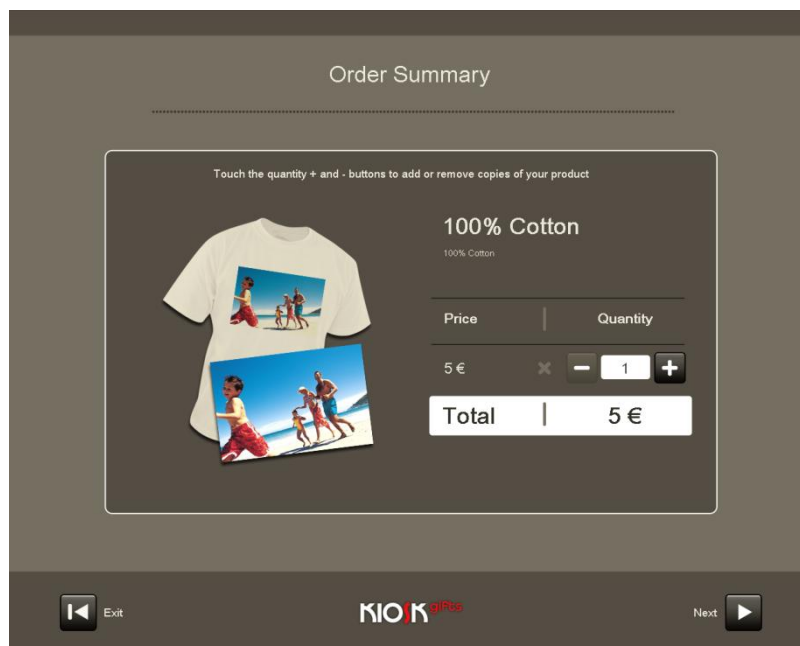


To continue, there must be as many photos selected as there are indicated by the range located at the top; if a valid preview for the gift has been defined, it will then be displayed next.



To refine the photograph within the area assigned to it in the product, click the adjustment button.

When finished with the adjustments, the order summary screen is displayed where the amount of gifts can be chosen.



To complete the order, simply press continue.

### 6.12.2 'Customised' service administration: Gifts management tool.

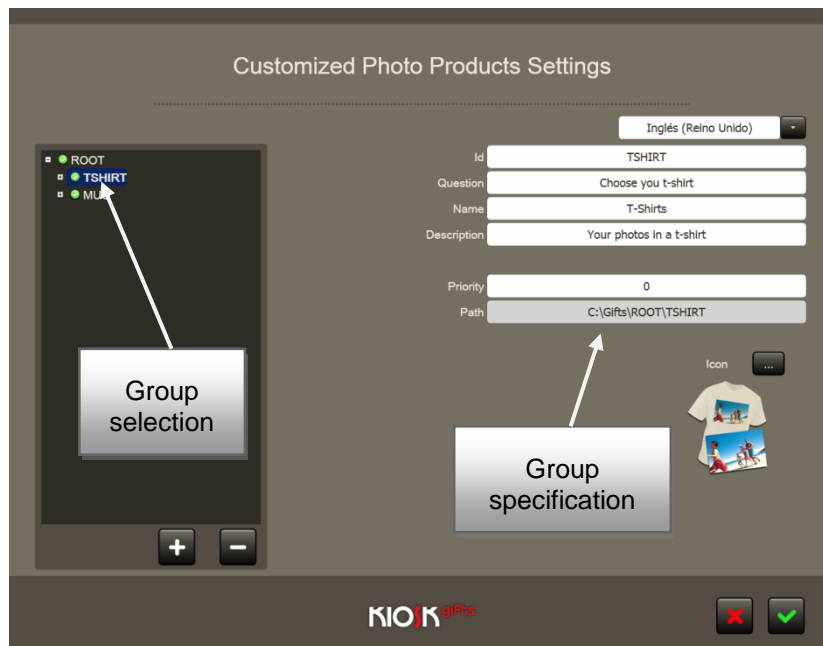
#### NOTE

The administration of products pertaining to this service requires a thorough knowledge of the application software and system in general. To edit or create products, contact your dealer or authorised service centre.

When you first enter the 'Customised' product settings, the following screen is shown.



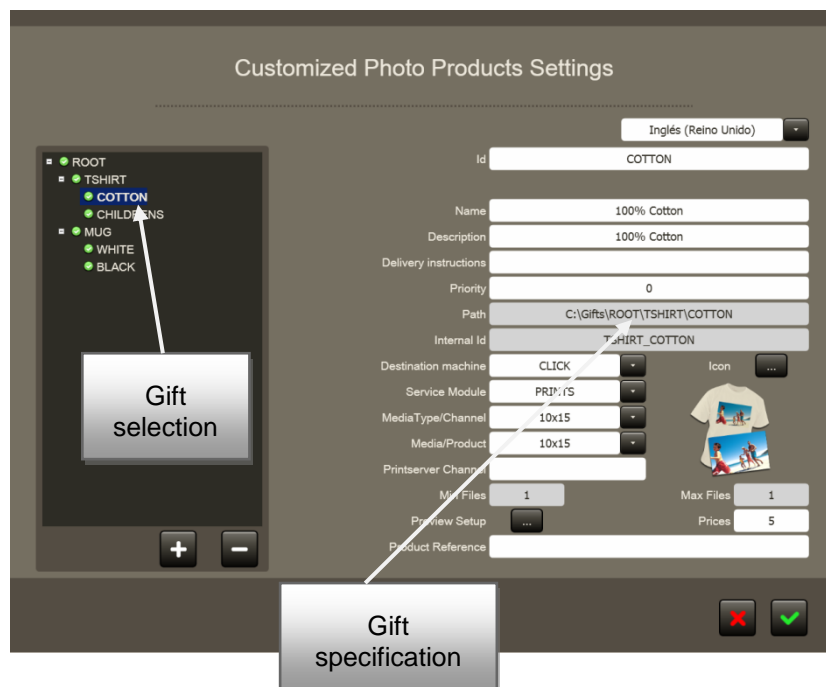
When a group is selected, the related setting details are shown on the right of the screen.



Description of the fields of a group or subgroup.

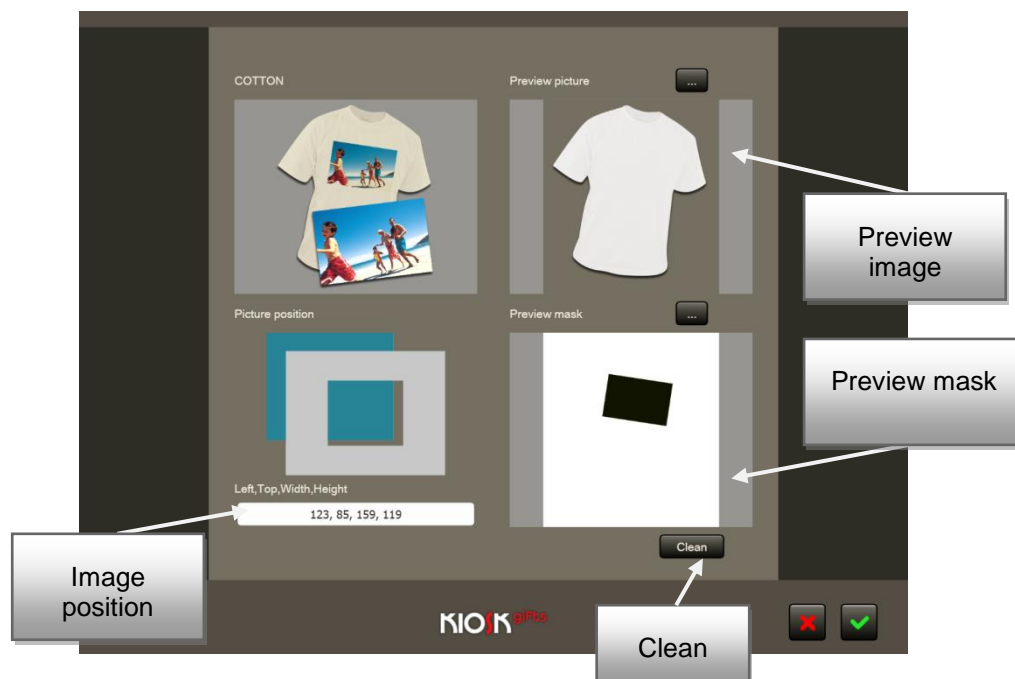
- ID: Unique ID within the parent group to which it belongs.
- Question: A question is asked in the service flow to choose between one of its sub elements.
- Name: Descriptive name of the element for the end customer.
- Description: Brief description of the element for the end customer.
- Priority: Used for managing the order of the presentation of items. They are in increasing order with smaller values first.
- Route: Physical location of the item in the folder tree generated for the structure. (Read Only)
- Icon: Icon for the group/subgroup that will be displayed in the selection of gifts.

The screen below shows the configurable details for a gift.



- ID: Unique ID within the parent group to which it belongs.
- Name: Descriptive name of the element for the end customer.
- Description: Brief description of the element for the end customer.
- Delivery instructions: Apply for future updates.
- Priority: Used for managing the order of the presentation of the user's gifts. They are in increasing order with smaller values first.
- Route: Physical location of the item in the folder tree generated for the structure. (Read Only)
- Internal ID: Unique ID in the system for the gift.
- Icon: Icon for the gift that will be displayed in the selection of gifts.
- Destination machine: Selection of the destination machine for printing.
- Service module: Selection of the service module (Prints, Labs)
- Consumables/Channel: Selection of the type of consumable items for PRINTS or the LABS service that will be used.
- Format/Product: Printing format
- Printserver Channel: Setting of specific parameters for the PrintServer.
- Minimum files/Maximum files: For the moment, this is for information only. It defines the minimum/maximum necessary for the composition of the gift.
- Prices: Gift price
- Product reference: Reference settings for the product, in the case that a receipt is requested.
- Preview: Button to access the settings screen of the gift preview with the user's photo.

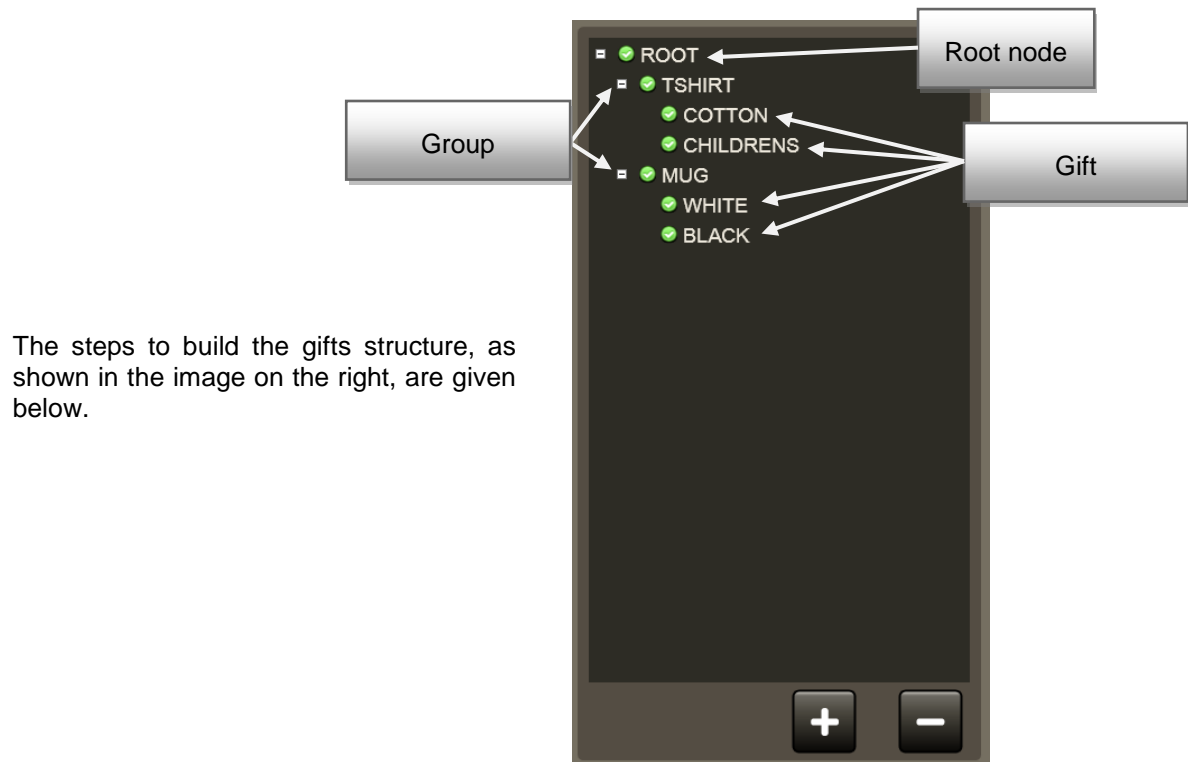
#### Settings screen for the gift preview



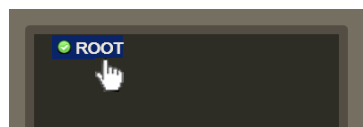
- Preview image: The background image displayed behind the user's photo.
- Preview mask: The image is the same size as the preview image. This is the alpha channel that defines the transparency of the area where the customer's image will appear.
- Image position: The coordinates (left, top, width, and height) where the customer's image is shown
- Clean: Clears the current preview settings.

### 6.12.2.1 Example of creating a gifts structure

In the case of direct printing from the printing module DPSLab, you must first create a specific product for each gift in the module.



- 1- Selection of the parent element to add the new item.



- 2- Press the add element button. We are going to create a 'TSHIRT' family.



- 3- Change the element ID created by typing 'TSHIRT' in the appropriate field on the right-hand side panel of this screen.



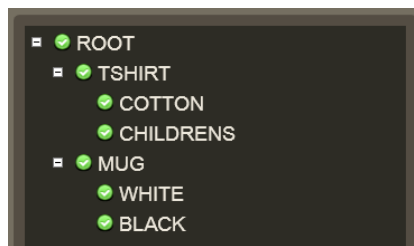
- 4- With the TSHIRT item selected, press '+' to create the product 'Cotton shirts' ('COTTON') which belongs to the family, 'T-shirts'.



- 5- To create another product ('Children's T-shirts', 'CHILDRENS') within 'T-shirts', again select the item TSHIRT and press '+'. Enter the name 'CHILDRENS' in the ID field on the right-hand side panel.



- 6- To create the family MUG, select the item ROOT and press '+' repeating the above steps.



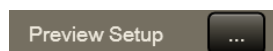
- 7- Once the general structure of gifts is generated, each element will be selected to configure each of their parameters.

#### Settings details

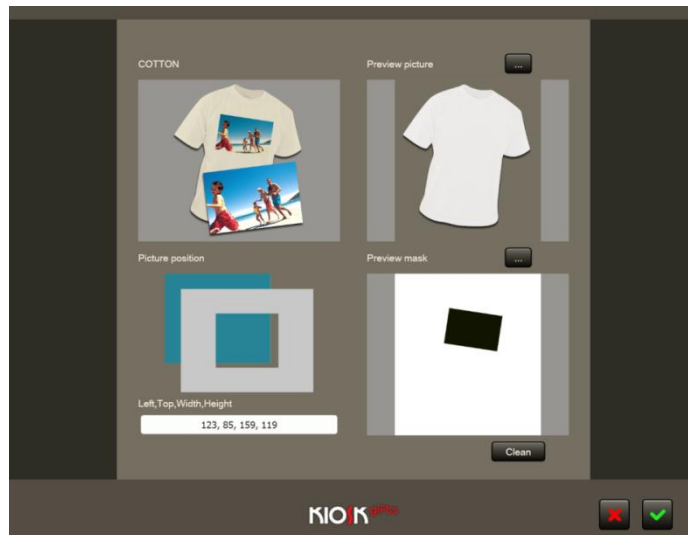
To set how the gift photographs are printed, configure the following parameters.

Destination machine	CLICK	▼
Service Module	LABS	▼
MediaType/Channel	LABS1	▼
Media/Product	10X15	▼

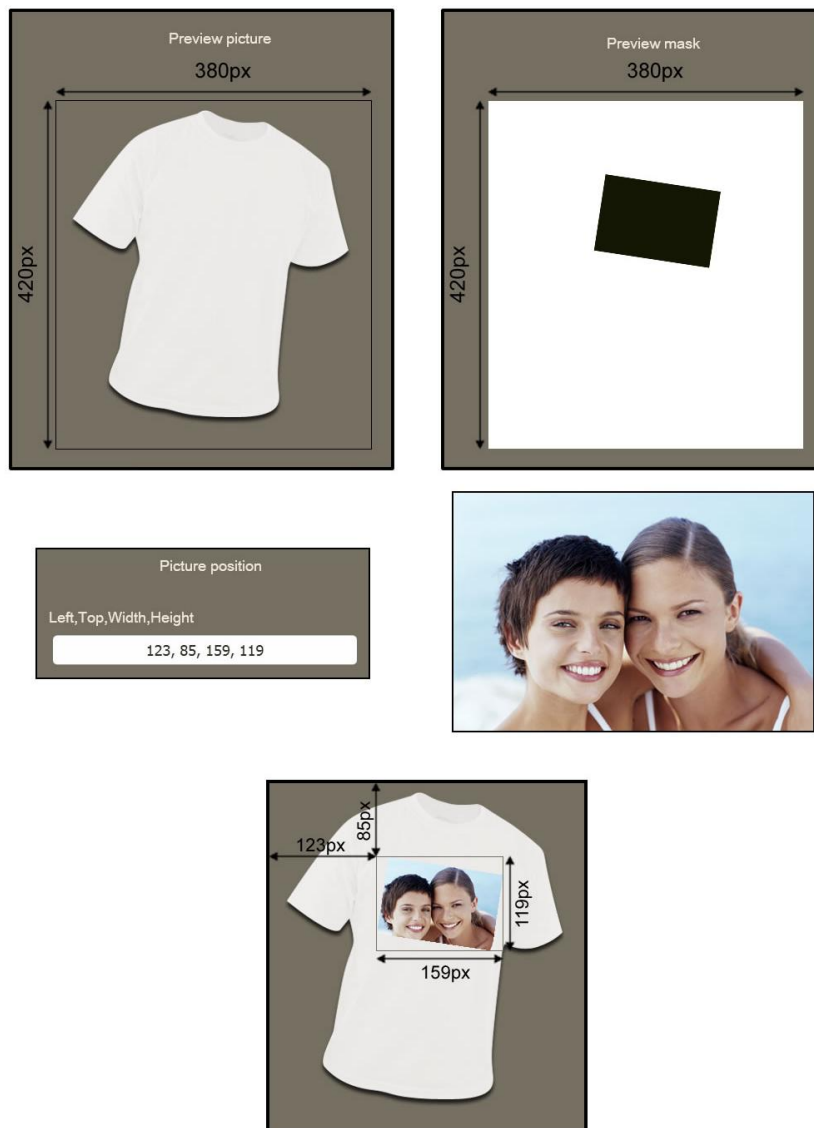
- 8- Setting the gift preview.







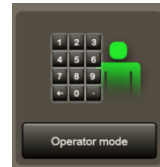
The picture below shows a schematic example, with the actual dimensions of the image files and the location coordinates of the photograph inside the transparency mask.



## 7 Operator services

### 7.1 Introduction

Operator services are services that, due to their complexity and added value, are not designed for use by the end user. To activate them, press the mode button on the operator service screen.



When you activate the operator mode, all the functions reserved for the operator are enabled; this means that the validation of the order by the operator will be done automatically (see section on Order validation).

The top of the screen indicates that the operator mode is activated. The operator mode is deactivated when the unit is returned to the main screen.

### 7.2 Photo ID photographs



This service is used to print a photograph for identity documents, passports, wallet-size portraits, etc.

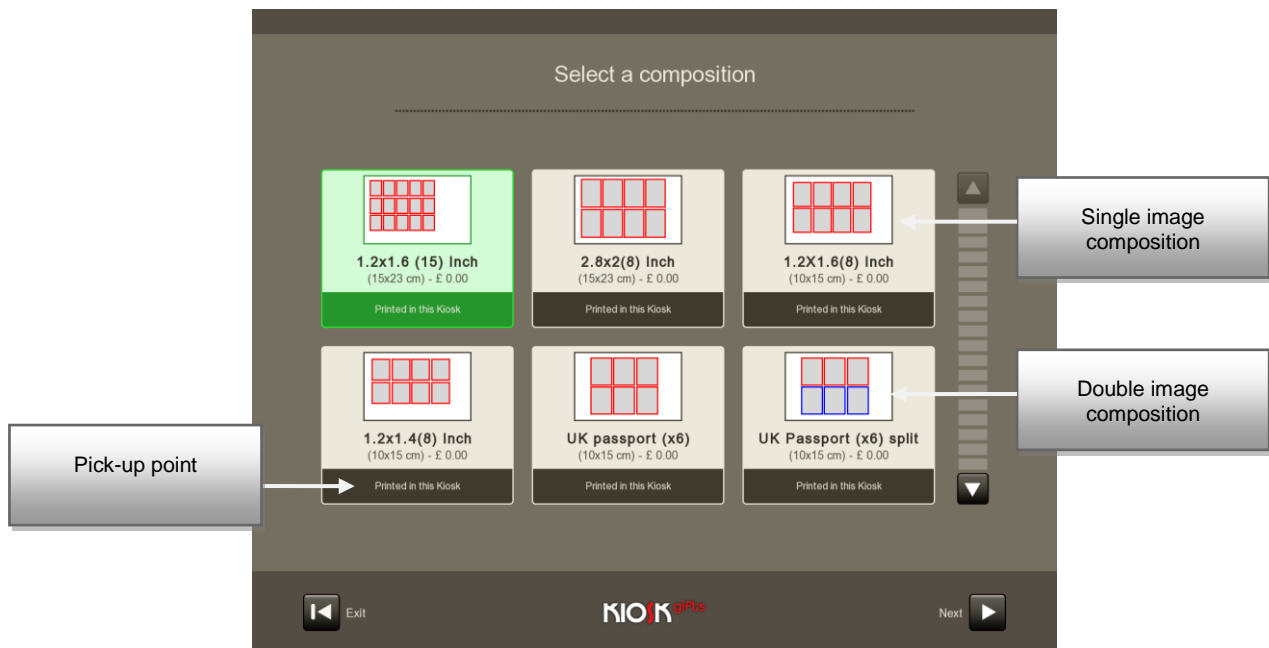
The advantage of using this service instead of the basic compositions used for IDs is the use of biometric masks, the possibility of mixing up to 2 different photographs in the same print, greater access to various tools to adjust the zoom, crop and restore images, and the option of automatic biometric adjustments.

With 'apply automatic biometric settings' enabled, the system processes the selected image and will adapt the face to the biometrics mask associated with the composition. This will save time for the operator when printing the photograph correctly.

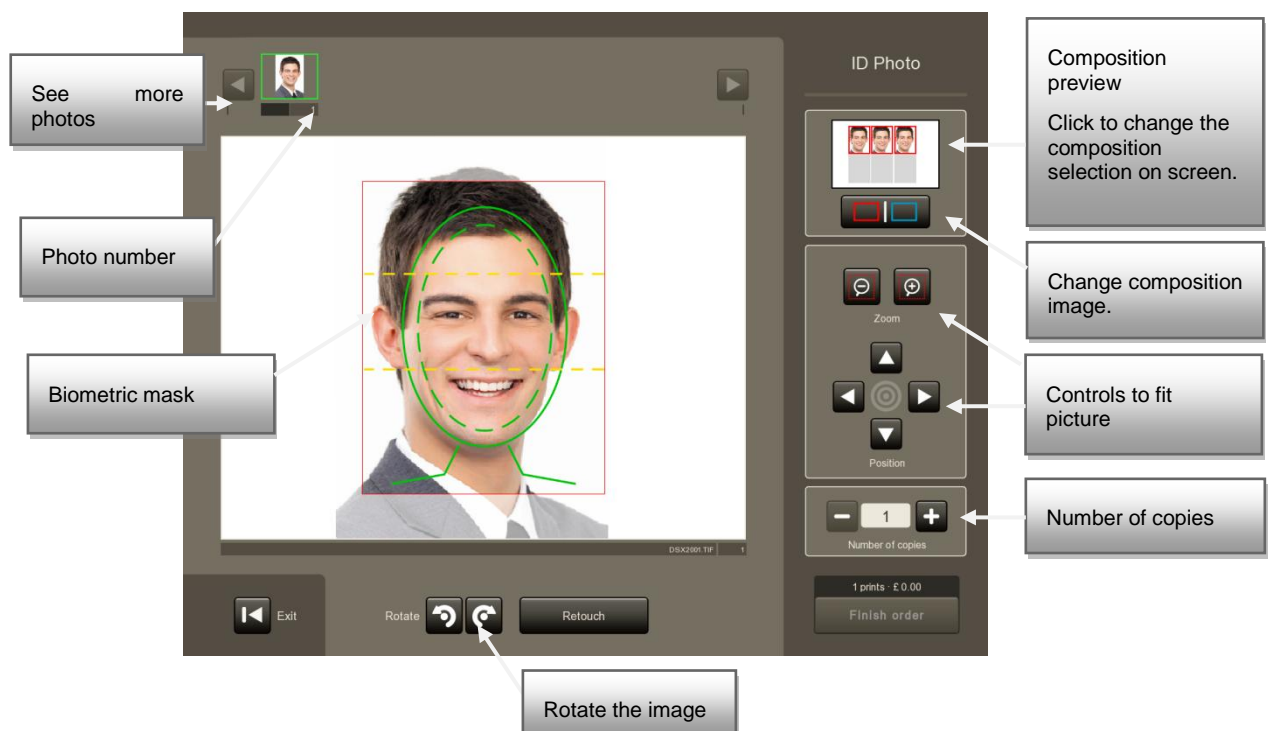
### 7.2.1 'Photo ID' photographs workflow

When the 'Photo ID' button on the main screen is pressed, this service will begin.

The composition screen will appear next. There are two types of design: standard and split. Split designs (in two different colours) can be used to mix two different photographs.



After selecting the composition, the photograph must be selected. The preview of the resulting composition will be displayed. The operator will have buttons available with the functionality necessary for adjusting the image to the biometric mask.



Once you have the picture in place and are satisfied with the result, press 'Finish order' to continue.

### **7.2.1.1 Automatic biometric adjustments**

With the automatic biometric adjustment option enabled in the service settings (see the chapter on 'Photo ID' Service Management: General Settings'), the system may take longer to display the selected image. The photograph may appear centred and with the zoom adjusted.

The 'Photo ID' service applies cutting-edge tools to detect the face of the customer and help the operator to centre the image on the biometric mask displayed in the centre of the screen.

If it is not possible to properly focus the image, there will be a warning under the picture.

This could be caused by one of the following:

- The customer's eyes are not clearly visible in the image
- The top of the customer's head is too close to the top of the image. This distance can vary depending on the size of the print rectangle and biometric mask used.
- The customer is wearing glasses and there is a slight glare on them.
- Part of the customer's face is not clearly visible
- The customer's face is rotated 90 degrees or more in the image.
- The image has a low vertical resolution (less than 500 pixels)

In any case, after the automatic detection of the image, it can be adjusted manually.

In some cases, it is possible that the customer's face is not properly set although no error message appears in the image. This may be normal if the design does not use the size and aspect ratio for official IDs and passports and it displays a biometric mask. In this case, make the final adjustments manually.

### **7.2.2 'Photo ID' service administration: product creation**

The administration of the different products in this service is the same as the administration of the 'Prints' service, which has already been explained in this manual.

### **7.2.3 'Photo ID' service administration: editing prices**

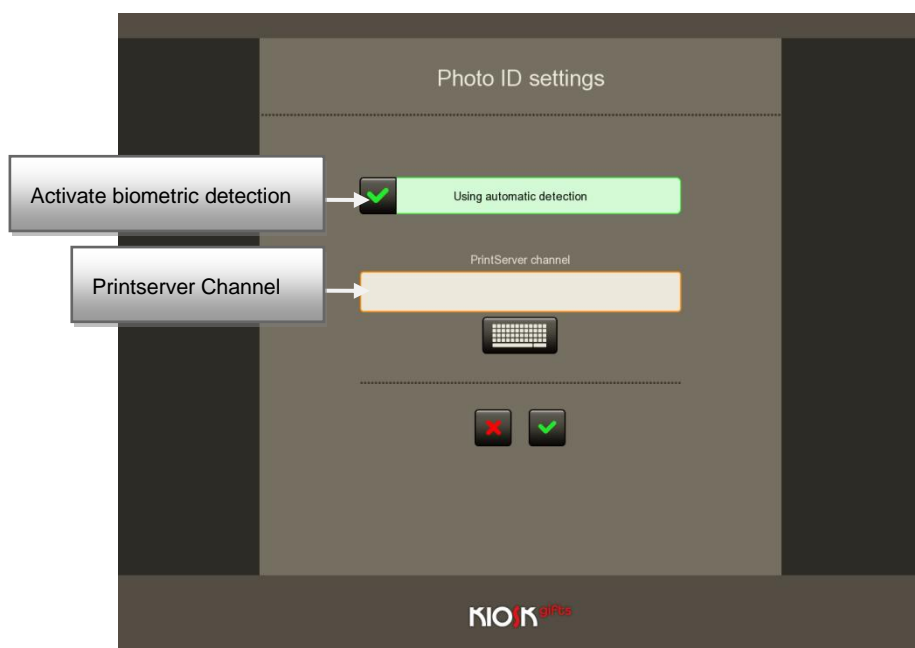
The administration of the different prices for each product in this service is the same as the 'Prints' service, which has already been explained in this manual.

### **7.2.4 'Photo ID' service administration: general settings.**

To access the General Settings screen of the 'Photo ID' service, select the 'Photo ID' service configuration screen and then press the 'Settings' button.



A screen appears to activate the automatic biometric detection and to define a PrintServer channel which will be applied to print service compositions.

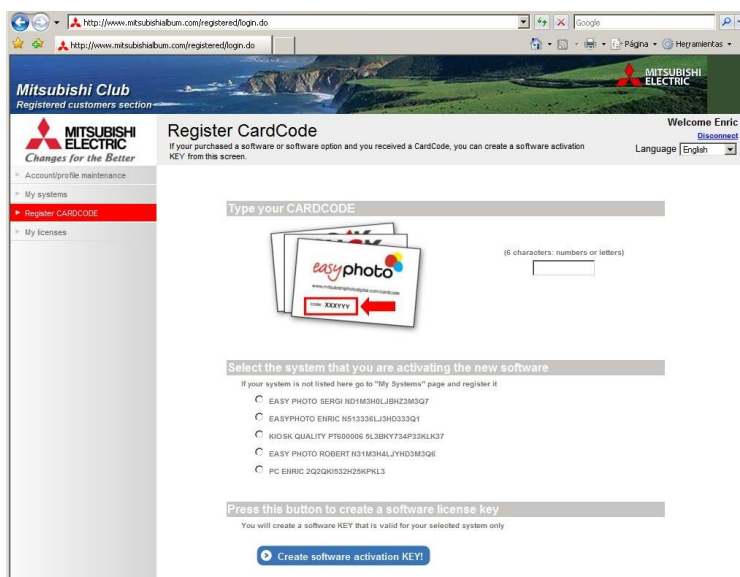


## 8 ADDITIONAL LICENSES

Some system functions require an additional license that is available from your usual supplier. For example, shipping to a laboratory in the 'Copies' and 'Customised Photo Products' services.

### 8.1 To register and obtain an activation key

To activate licenses, you must be a registered user. Please go to the page <http://www.mitsubishiphoto.com/cardcode> and follow the instructions for registering and activating licenses.

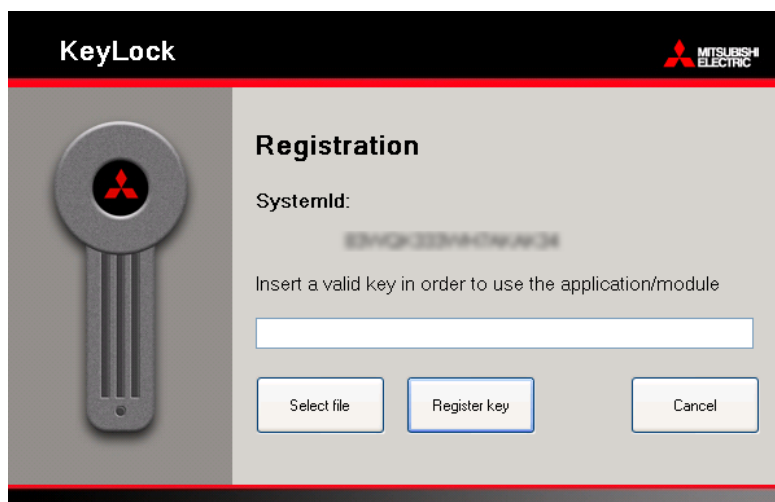
The screenshot shows a web browser window with the URL 'http://www.mitsubishibum.com/registered/login.do'. The page is titled 'Mitsubishi Club Registered customers section' and 'Register CardCode'. It features a sidebar with navigation links: 'Account/profile maintenance', 'My systems', 'Register CARDCODE' (highlighted), and 'My licenses'. The main content area has a header 'Welcome Enric' with a 'Disconnect' link and a 'Language' dropdown set to 'English'. Below this, there's a section 'Type your CARDCODE' with a text input field and a note '(6 characters: numbers or letters)'. To the left of the input field is an image of a 'easy photo' card with 'AMY' on it. Below the input field is a section 'Select the system that you are activating the new software' with a list of system IDs and their corresponding software options. At the bottom, there's a button 'Create software activation KEY!' and a note 'You will create a software KEY that is valid for your selected system only'.

When purchasing a new license (service), an Activation code (hereinafter 'CardCode') is delivered. Please request a CardCode from your provider to activate additional licenses.

During activation, the CardCode number and System ID will be required.

The system ID is a unique code that identifies your system. It appears on the activation screen of the service or product to be registered. This is also available on the Kiosk gifts operator screen.

When prompted for the software activation key, enter it in the required field.

The screenshot shows a software interface titled 'KeyLock' with the Mitsubishi Electric logo in the top right corner. On the left side, there is a large graphic of a key with the Mitsubishi logo on its head. The main area is titled 'Registration' and contains a 'SystemId:' label followed by a blurred system ID. Below this, there is a text prompt 'Insert a valid key in order to use the application/module' and a text input field. At the bottom, there are three buttons: 'Select file', 'Register key', and 'Cancel'.

# **APPENDIX**

## **Dispatcher**

**Revision 2.0**



**ENGLISH**  
Rev. 2.0

## CONTENTS

<b>1</b>	<b>DISPATCHER CONCEPTS AND DEFINITIONS.....</b>	<b>3</b>
1.1	APPLICATION STANDARDS .....	3
1.1.1	Status colour coding .....	3
1.1.2	Multiple selection .....	4
1.1.3	Editing, optional fields and of information. ....	4
<b>2</b>	<b>DISPATCHER ADMINISTRATION INTERFACE .....</b>	<b>5</b>
2.1	PREVIEW OF THE MAIN SCREEN .....	5
2.2	INCOMING ORDERS SECTION (DOES NOT APPEAR IN <i>CLICKLITE</i> ) .....	7
2.2.1	Approval of orders.....	8
2.2.2	Browsing incoming orders.....	8
2.3	ACTIVE ORDERS SECTION.....	8
2.3.1	Selecting an order .....	9
2.3.2	Services in an order .....	9
2.3.3	Toolbar and status bar .....	10
2.3.4	Details of services .....	12
2.3.5	Order/service options.....	13
2.3.6	Order options .....	14
2.3.7	Service options (optional) .....	14
2.3.8	Exporting orders and services to Click .....	15
2.3.9	Saving orders permanently .....	15
2.3.10	Apply changes .....	15
2.3.11	Preview and touching up of images in orders/services .....	16
2.4	DEFAULT FILTERS FOR ORDERS.....	16
2.4.1	Active orders .....	17
2.4.2	Completed orders .....	17
2.4.3	All orders .....	17
2.4.4	Orders to save .....	17
2.5	SERVICE MODULES.....	18
2.5.1	Devices .....	18
2.5.2	Formats .....	20
<b>3</b>	<b>DISPATCHER CONFIGURATION .....</b>	<b>21</b>
3.1	CONFIGURATION ADMINISTRATION SCREEN .....	21
<b>4</b>	<b>SPECIAL FEATURES OF SERVICE MODULES.....</b>	<b>23</b>
4.1	PRINT SERVER.....	23



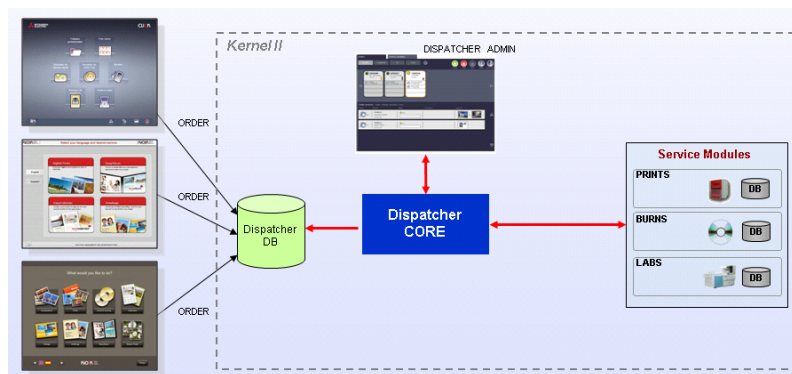
## 1 Dispatcher concepts and definitions

In a Flexilab system, orders can be made from external devices, which are then processed by a centralised Dispatcher. This structure makes it possible to connect several Kiosks in Order Terminal mode.

In a system configured in this way, all the orders from Order Terminal Kiosks are processed by the Dispatcher. ClickPRO orders are also brought together in the Dispatcher.

As the system operator, it can organise the execution of orders, change settings, review job records, etc.

The following diagram shows the connectivity of all the modules in the system, and the information flow.









- **Dispatcher CORE:** This is the main Dispatcher application which must always be operating. This application processes all the orders and services, keeping control and managing the queue of pending jobs for the various output devices. The monitor application starts the dispatcher core motor and makes sure it is constantly operating.
- **Dispatcher ADMINISTRATION:** This is the interface used by the operator to view and organise orders and services. It is not necessary for Dispatcher Administration to be open all the time for jobs to be done correctly. However, its use is recommended with connected Order Terminal machines as it is the interface which enables the operator to accept incoming orders that are not approved automatically (pending payment, etc...)
- **Service Module:** Output devices which process the services included in a client's order. For example, 10 x 15 cm (4 inches x 6 inches) digital photo is printed by the DPS Print Server Service Module, which chooses the best printer for processing the image.

### 1.1 Application standards

The application is based on standards to facilitate its use and provide increased client satisfaction. Some of the guides applicable to the entire system are shown below.

#### 1.1.1 Status colour coding

Dispatcher Administration shows the status of orders and services using coloured circles.

	Pending	- Pending
	Executing	- Executing
	Paused	- Paused
	Error	- Error
	Done	- Done
	Batch executing	- Batch executing (can be executed later)

### 1.1.2 Multiple selection

In the list of incoming orders, several orders can be selected at the same time by checking each one separately. To deselect an order, check it again.

After several orders have been selected, the same action can be applied to the entire set (approve, validity with pause or delete).

### 1.1.3 Editing, optional fields and of information.

The following standard is applied to all fields containing information:

White Background: compulsory fields. The information must be completed or selected.

Light cyan blue background: Optional fields. These can be left blank.

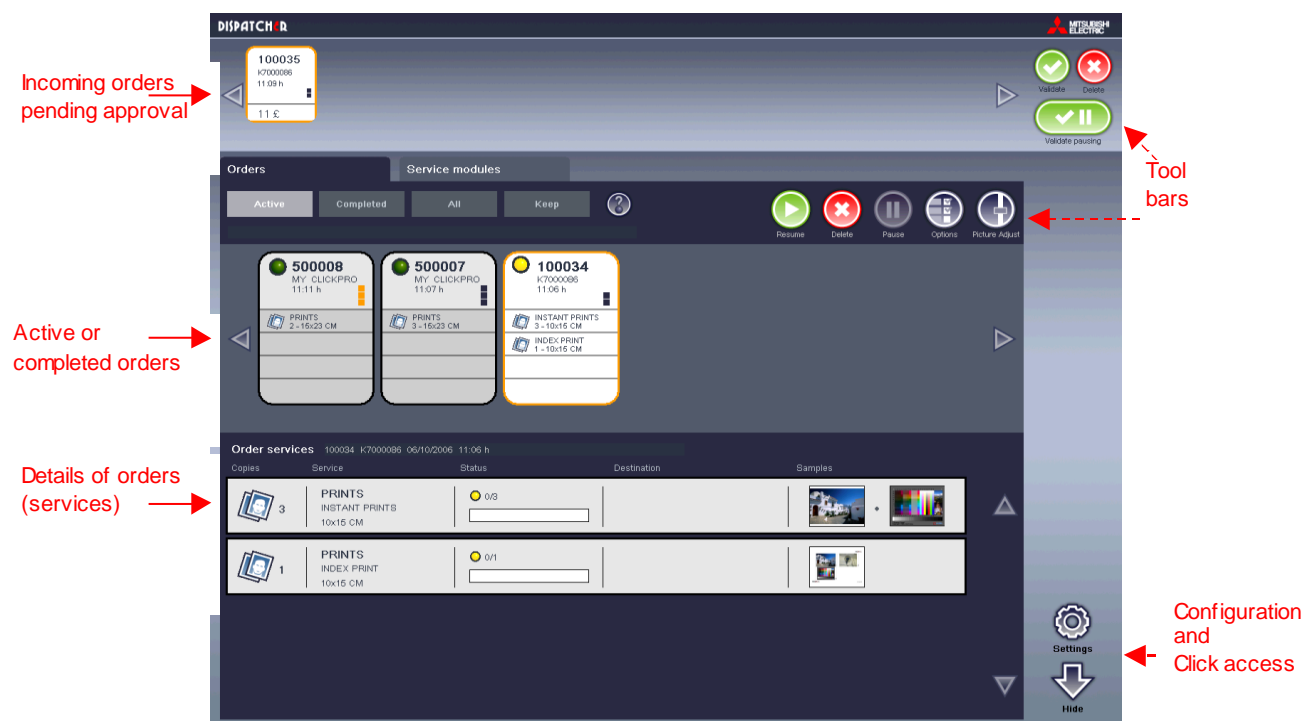
Grey or transparent background: Information fields. These cannot be changed.

## 2 Dispatcher administration interface

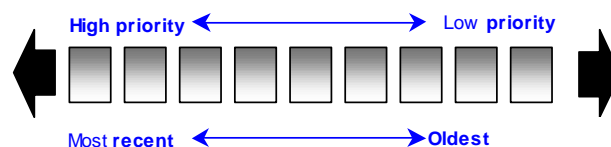
Dispatcher Administration is an application which can be started manually from the Kiosk/Click application. It can be opened and closed without this affecting the work being done.

### 2.1 Preview of the main screen

The main screen consists of various sections and tool bars, depending on the objective of each section.



All the lists are ordered by priority and time. The left hand side of the list contains higher priority orders, while those with a lower priority or older ones are on the right. The list of completed orders is ordered by date of ending (more recent ones are shown first)



- Order and service files

Each order is represented by files containing information as a summary, either about the services involved, or about the order itself.

### Entry of orders pending approval



- + Order identifier. A ticket is generated with this identifier in Kiosk or Click (999998)
- + Machine identifier. This identifier is an alias that can be configured at Kiosk or Click level (K70XAVI)
- + Day and time of order creation (those on the same day will only be shown with a time)
- + Order priority. There are 3 possible priority levels and a change of colour to show top priority ("now").



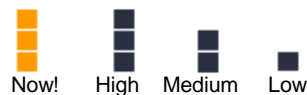
- + PRICE of the order
- + Order payment indicator. If the order has been paid for at the Order Terminal this image in the file will appear in the file before it is approved. It shows that it can be approved before the client comes to collect his/her completed order.



### Entry of orders in transfer



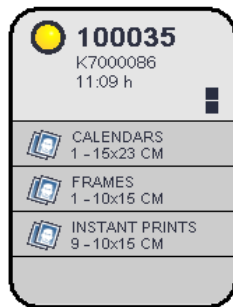
- + Order identifier. A ticket is generated with this identifier in Kiosk or Click (500031)
- + Machine identifier. This identifier is an alias that can be configured at Kiosk or Click level (C5000006)
- + Day and time of order creation (those on the same day will only be shown with a time)
- + Order priority. There are 3 possible priority levels and a change of colour to show top priority ("now").



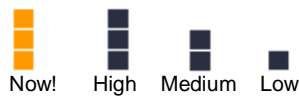
- + File transfer progress bar.
- + PRICE of the order
- + Order payment indicator. If the order has been paid for at the Order Terminal this image in the file will appear in the file before it is approved. It shows that it can be approved before the client comes to collect his/her completed order.



### Orders approved

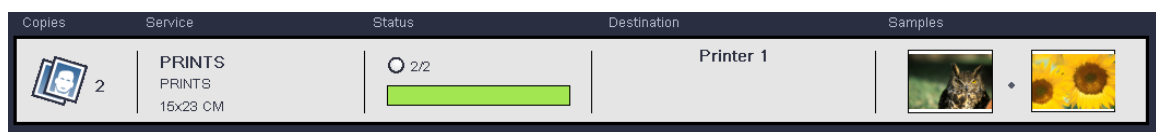


- + Order identifier. A ticket is generated with this identifier in Kiosk or Click(100035)
- + Machine identifier. This identifier is an alias that can be configured at Kiosk or Click level (K7000086)
- + Day and time of order creation (those on the same day will only be shown with a time)
- + Order priority. There are 3 possible priority levels and a change of colour to show top priority ("now").



- + Service identifiers. Each order may have several services. This file shows the first 4 with a short description of the type and format, and the number of copies.

## Services



- **Copies, Service, Status, Samples**

A service file contains details of the status of the service, its progress, date of ending of the service, and a preview of the first and last image in the service.

- **Destination**

The destination may contain one or several devices, or may even not have any assigned to it. This latter case only arises in services that have recently been created and which still do not have an output device assigned to them. The service module will assign devices according to its internal assignment policy. It is possible to specify a destination before sending the service (ClickPRO) to force it to be printed by a certain printer, for example.

## 2.2 Incoming orders section (does not appear in Clicklite)

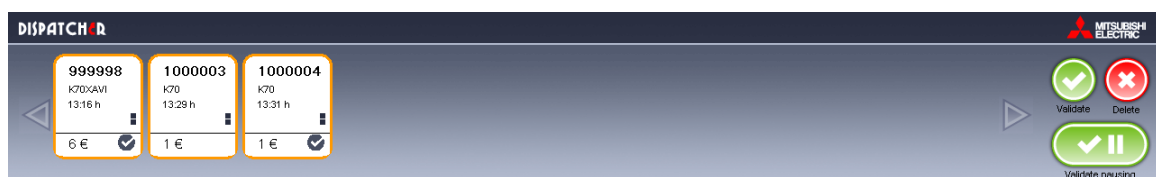
All the orders requested by DPS Systems which are pending validation can be seen in this section.

Orders that have already been paid for at the Order Terminal, or those from a Click will be automatically transferred to the active orders section (configurable).

### NOTE

It is possible to automatically accept all orders, using the Dispatcher configuration screen and changing the setting of the "ORDERS" group labelled "AUTO\_APPROVE" to TRUE.

However, to make incoming orders always pending validation, the value of "AUTO\_APPROVE" must be FALSE.



### 2.2.1 Approval of orders

In order to approve an order, select it in the main browsing panel and press the “approve” or “approve with pause” button.

This panel enables multiple selections to be made: Several orders can be selected at the same time and all of them approved in a single operation.



- **Approve:** After the order has been approved, it disappears from the panel and reappears in "Active Orders" as "Pending". This means that the order is processed automatically as soon as the appropriate Service Module is available.



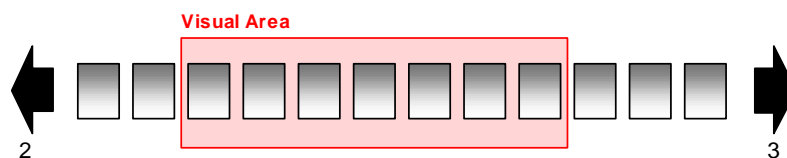
- **Approve with pause:** When an order is approved with a pause, it also appears in the “Active orders” panel, but is not processed while it is “paused”. This order waits indefinitely, until started manually by an operator. This option is useful if an operator needs to make adjustments to the image or to change the order options before executing it in the Service Module.

### 2.2.2 Browsing incoming orders

All incoming orders are stored in this section until they are approved. Hundreds of orders can be stored this way. The arrows on the left and right must be used to view them.

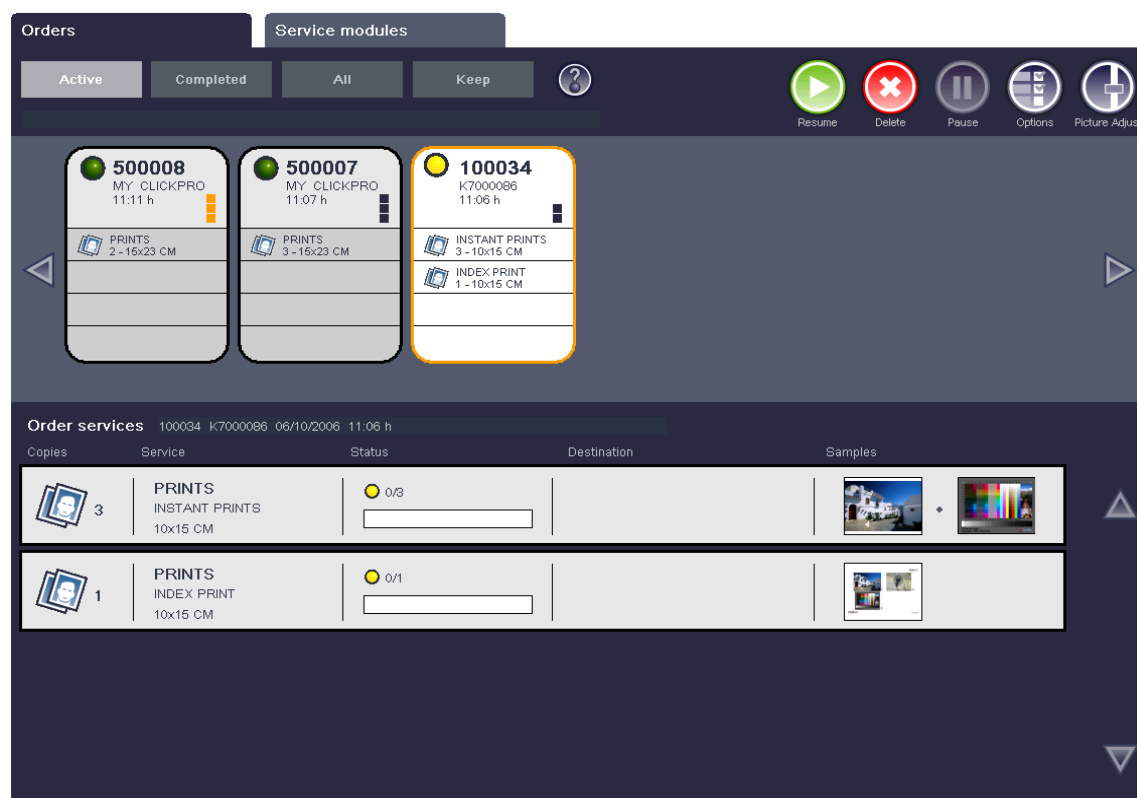
The arrows are disabled if all the orders fit in the visible space on the screen. When the arrows are enabled, they are shown in a different colour and a number appears inside them, showing the amount of hidden elements in each direction.

The example below shows the contents of the arrows.



## 2.3 Active orders section

The orders included in this section are those that have been approved and which may be processed at any time. This depends on the availability of the Service Modules and the status of the order.



The status of an order may vary, and is represented by the colour codes described above.

An order being executed may be paused at any time<sup>(\*)</sup>, and the Service Module stops work on it.

<sup>(\*)</sup> Depending on the Service Module, it is possible that an order remains paused, due the risk of damage to the medium or application. For example, copying a CD cannot be stopped, but printing of a digital photo can.

### 2.3.1 Selecting an order

Click on an order to select it. The colour and edge will change.

When an order is selected the buttons on the toolbar show the possible actions at that point (change configuration, stop, start, leave in pause mode, delete, etc.).

Some actions are disabled in some order statuses.

### 2.3.2 Services in an order

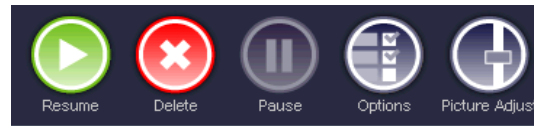
Once the order has been selected, its details appear at the bottom of the screen.

Service is deemed to mean: the format, progress, amount of images, output devices and the first and last image of those selected.

It is also possible to select a service and the toolbar will change according to the actions that can be taken in each case, which also depend on the status of the service.

### 2.3.3 Toolbar and status bar

The toolbar consists of various buttons. Each allows different actions to be taken on the execution of the order or the service.



There are some limitations on the way some actions can be executed. Depending on the status of an order or service, some actions may not be available.

Some status have certain associated actions. The following list gives details of these actions.



- **RESUME**  
If an order has been selected, this action will start all its services with a status of PENDING, DONE, in ERROR, or PAUSE



- **DELETE**  
This button only affects an order which is stopped (PAUSED, ERROR or DONE) and deletes it from the system, although some data are kept internally for inclusion in statistics.



- **PAUSE**  
PAUSE is only applicable to orders or services with a status of IN EXECUTION, or PENDING. This action stops the execution, or holds up the queue for the order/ service in question, moving on to the next services in the queue according to the order of priority.



- **OPTIONS** *(not available in Kiosks in Standalone mode)*  
Enables the options of any element (order/service) to be seen and some of their settings to be modified, depending on their status. The statuses that allow modification of the data are those which are "inactive" (DONE, ERROR, PAUSED).

When this button is pressed, the options window appears, and remains visible until the button is pressed again.

When editing options, it is possible to change between orders and services with no need to hide this window.



- **PICTURE ADJUST** *(not available in Kiosks in Standalone mode)*  
It is possible to access the adjustments screen from an order or from a service. If access is from an order, all the images belonging to it will be edited.

#### RESTRICTIONS

All the orders from a Kiosk in Standalone mode contain which the client's files must be deleted for legal reasons, as explained in the terms and conditions. For this reason, Dispatcher deletes all the images of orders from the system once they have been completed.



### 2.3.3.1 Status of orders

The status of orders changes automatically according to the changes in status of services.

The following list shows the various statuses in which a service may be and how this affects the final order. The priority is from HIGH to LOW.

PRIORITY	STATUS OF THE ORDERS ordered by the most restrictive statuses requiring manual operation
HIGH   . . .  LOW	ERROR
	PAUSED
	EXECUTING
	PENDING
	DONE

For example, in a pending order with 3 services; if 2 are in EXECUTING and 1 in ERROR, the status of the order is ERROR because this shows that an operator's attention is required. Services in EXECUTING continue to be executed until they are completed.

Paused devices are also given a high priority on the list above as they require manual intervention by the operator.

### 2.3.3.2 Limitations

If "PAUSED" is activated for an order/service, its execution is paused, but other new orders or services continue to be executed as normal.

If RESUME is activated for an order/service which is PAUSED, in ERROR or DONE, it is reactivated, and its status becomes PENDING. The order/ service will not be processed until the Service Module is free again.

It is possible to "KEEP" an order from a Kiosk or Order Terminal to keep it in the system until it is permanently deleted manually. This is useful for saving sample orders, some interesting orders from clients you wish to save for some time, etc.

A service with an ERROR status may continue being executed using the RESUME option. This enables the service to be resumed at the exact point where it left off.

The table below shows all the possibilities for action for orders and services depending on their status.

Actions Toolbar & options									
Type	STATE	START	PAUSE	OPTIONS (Orders)(2)	OPTIONS (Service Modules)(6)	DELETE	ADJUSTMENT (2)	KEEP (2)	EXPORT to Click(2)
ORDERS	PENDING	Yes (4)	Yes	Yes			Yes (7)	Yes	
	PAUSED	Yes		Yes (5)		Yes	Yes	Yes	Yes
	ERROR	Yes		Yes (5)		Yes	Yes	Yes	Yes
	EXECUTING		Yes	Yes			Yes (7)	Yes	
	BATCH_ EXECUTING		Yes	Yes			Yes (7)	Yes	
	DONE	Yes		Yes (5)		Yes	Yes	Yes	Yes
	KEEP	Depends on the status of the orders				Depends on the status of the orders			
	TO_APPROVE	Yes (validate)	Yes (validate)			Yes			
	TO_RESUME		Yes	Yes			Yes	Yes	
SERVICES	PENDING		Yes	Yes			Yes (7)		
	PAUSED	Yes		Yes (3) (5)			Yes		Yes
	ERROR	Yes		Yes (3) (5)			Yes		Yes
	EXECUTING		Yes	Yes			Yes (7)		
	BATCH_ EXECUTING		Yes	Yes			Yes (7)		
	DONE	Yes		Yes (3) (5)			Yes		Yes
	TO_RESUME		Yes	Yes			Yes		

TABLE 1

If the system has eliminated the service files, only the delete-option will be possible on it.

Only activated in a Click. A subfolder is created in the professional workfolder with the order identifier, so that it can be easily identified.

The priority of a service cannot be modified.

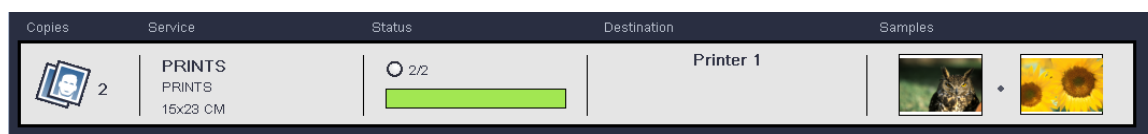
It is possible to restart an order in pending status if an order with “Now” priority has stopped another incoming order.

The options can be seen and edited.

Shows adjustments in reading mode.

### 2.3.4 Details of services

The information on a service which appears when an order is selected is useful for monitoring the steps to take and the status.



- **Copies:** The number of images for processing is shown in the first section. When burning CDs, the number of CDs is normally 1.
- **Service:** Shows the print format (10 x 15) or the type of service for IndexPrint, calendars, card photos, etc.
- **Status:** Shows a progress bar and the completed / total number of copies.
- **Destination:** Shows the output device/s for the service if it is already being processed. If these services have not yet been assigned to a device, an "Output device not yet assigned" message appears.  
There is only one case in which the destination is known before assignment of the Service Module - when a destination device is determined from the source application. (E.g. ClickPRO)

This information is useful for collecting jobs after they have been processed, when there are more than one output device.

For example, a PRINTING service in balanced mode can be printed on all the connected printers which offer this format. This section shows the "alias" of all the printers which process this type of service.

- **First and last images:** Shows a thumbnail of the first and last image in the service.

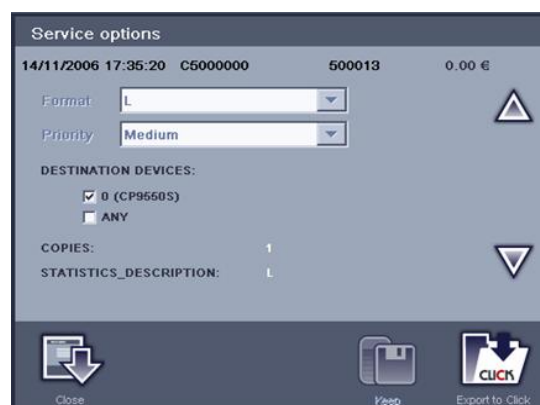
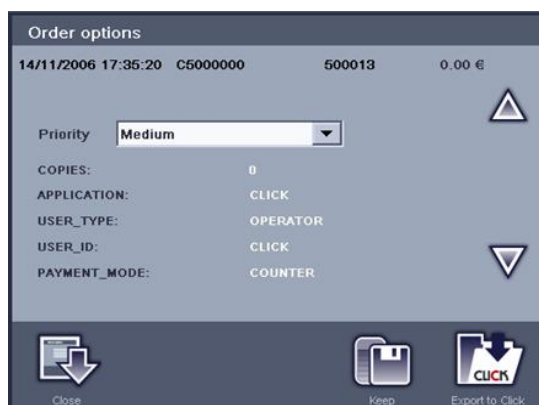
### 2.3.5 Order/service options



Order and service options can be edited and viewed using the options button on the toolbar.

This window activates a pop-up window showing the options for the selected element (order or service) and enables some settings to be modified.

The options for orders and services are not translated as they are internal Dispatcher values. The meaning of each is listed below.



#### 2.3.5.1 Restrictions

It is not possible to edit options in orders or services if their status is Executing or Pending. Changes cannot be made in these cases.

It is also not possible to EXPORT TO CLICK for an order which is being processed.

It must first be left "IN PAUSE" in order to be able to make changes.

### 2.3.6 Order options

Some settings or options in the order can be modified. All the internal options in the order can be seen as complementary information.

The order settings which can be changed are:

- **PRIORITY:** An indicator of priority within the following values: High, Medium, Low, Now! (Immediate).  
The Now priority is the highest, and leads to any job with a lower priority that is being executed being stopped. When the order is completed the order is reestablished according to what the other orders were being executed.

Some of the common read only settings in an order are:

- **INITIAL\_TIME** (start time): The date and time when the order was created.
- **END\_TIME** (end time): The date and time when execution of the order was completed.
- **SOURCE APPLICATION:** The name of the application which generates the order.
- **USER\_TYPE:** The type of user executing the order. This is useful for orders from an Order Terminal/Kiosk (operator, end client, etc.)

### 2.3.7 Service options (optional)

The service settings shown depend on the destination Service Module and the type of service.

- **COMMON SETTINGS:**
  - **FORMAT:** The output format which is used in this service (Example for printing: 10 x 15cm or 4 x 6 inches, etc., CD burning: DVD\_8Gb, etc., DPSLab: 1 hour, 24 hour service, etc.)
  - **DESTINATION\_DEVICE** (destination printer): Enables the printer printing the service to be changed. Only the printers using the format in question are offered.
  - **COPIES:** Number of images / CDs etc. processed for the selected service.
- **PRINT SERVER:**
  - **QUALITY:** 1,2,3 (Normal, Fine, Superfine)
  - **BALANCED** (balanced mode): TRUE/FALSE depending on whether the printing mode is balanced or blocked
  - **WHITE BORDER:** True/False:
  - **FIT\_TO\_PAPER:** False
  - **COLOR\_OPTIMIZED:** Colour optimisation (Colour / Black and white)
  - **FIT\_TO\_PAPER:** TRUE/FALSE To fit the image to the paper, trimming the image to maintain the proportions.
  - **ERROR CODE:** (Not visible if there is no error): An error code, only when there has been a problem in the service.
  - **ERROR DESC:** (Not visible if there is no error): Description of the error code.
- **CD BURNING:**
  - **ACTION** (Result of creating a CD): **SUBLIME** (creation of a CD with the client's images and the SUBLIMECD application), **BACKUP** (back-up copy CD), **ERASE** (deletion of CD), **QERASE** (Quick delete)

- SESSION\_NAME: Internal name of the CD compilation (only available for SUBLIME and the CD BACK-UP COPY)
- LANGUAGE: Default language for the SUBLIMECD.
- DPSLAB:
  - TAX: Amount of money for tax applied to the Service Module.
  - CUSTOMER\_ASK: Questions that the Kiosk or ClickPRO will ask clients to obtain information about them (address, telephone number, etc...)
  - SERVICE\_ASK: Questions defining the type of service to be carried out (Colour/B+W, White border, etc.)
  - PRODUCT\_ASK: Questions related to the product.

### 2.3.8 Exporting orders and services to Click



Selected orders and services can be sent to Click from the options screen

The selected orders/services are transferred to a Click work folder as a subfile with the same name as the order number.



To access these exported orders, access the Click application and the work folder opens to view the order for editing.

Because an order can be exported as many times as desired, if the order exists in Click, a folder is created with a number (1), e.g. "DISPATCHER\_222333 (1)"

### 2.3.9 Saving orders permanently



Orders of interest can be saved permanently in the system. To delete them afterwards, the "Cancel" button is used.

The orders saved are visible from the STORE tab.

Orders can be saved regardless of their status. A saved order can reexecuted at any time and as many times as necessary.

### 2.3.10 Apply changes



This button is used to apply changes to the values in the options panel, so that they are effective and the screens are updated with the new values.

### 2.3.11 Preview and touching up of images in orders/services

Orders normally consist of photographic services or include images. The first and last images they contain are shown in the details of services (in the active orders section).

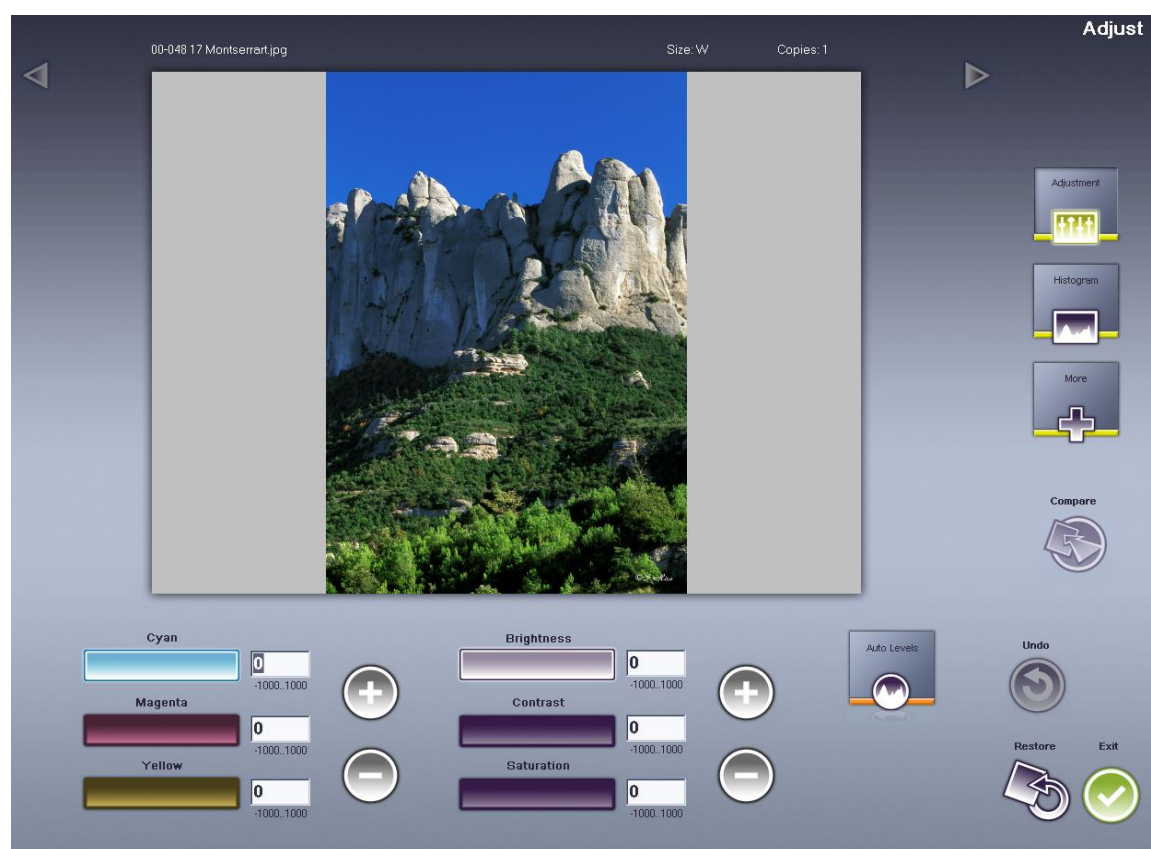


Dispatcher allows previewing of the entire contents of the services, and adjustments to be made quickly. An order can be completely modified, moving automatically from service to service.

All the images involved are shown on the preview/adjustments screen, where all the changes made can be saved.

#### RESTRICTIONS

It is not possible to adjust images of orders/services which are being executed or pending. In this case, it is only possible to preview the contents.



Operation of this screen is explained in the Click manual.

## 2.4 Default filters for orders

From here, orders can viewed and filtered to work quickly with those needing most attention, already processed orders can be recovered.



### 2.4.1 Active orders

Shows the orders currently active. This refers to orders with the following statuses: PENDING, IN PAUSE, ERROR, EXECUTING and all their services.

This list is ordered from high to low PRIORITY and by date. The orders on the left of the list have the highest priority, and the ones on the right the lowest priority.

### 2.4.2 Completed orders

These are those with a DONE status and whose services are also DONE.

This list is ordered backwards by date and time of completion. The first order on the left will be the last to have been processed, and the one on the right the oldest. The date shown on the file is the creation date, but when the order is selected, the completion date of each of the services can be seen on the progress bar.

### 2.4.3 All orders

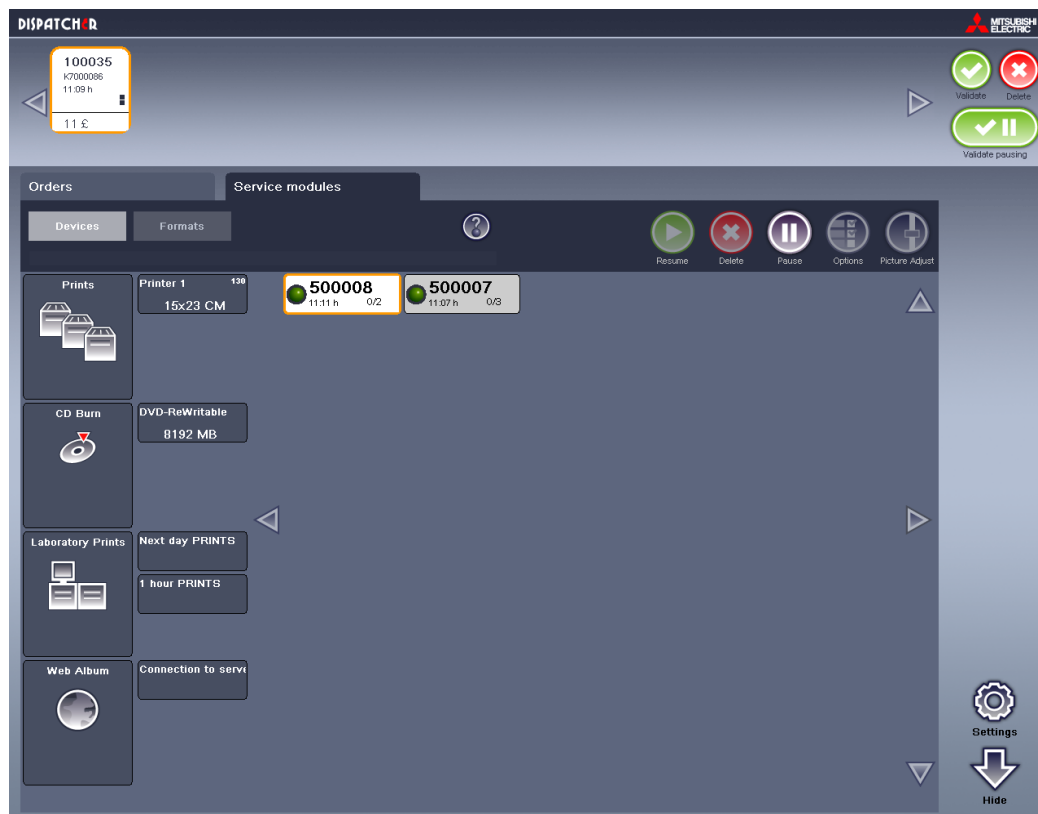
This shows all orders, both active and completed, and those marked with SAVE.

Completed orders in SAVE status are shown in the panel of completed orders until the day specified for the Garbage Collector. From this date onwards, orders are only visible from the SAVE tab.

### 2.4.4 Orders to save

Orders which can be in any status but which are marked as SAVE. The operator chooses to save them from the options panel.

## 2.5 Service Modules



### 2.5.1 Devices

This view enables viewing of the physical devices of all the service modules and the services of the associated orders. The visible services are those which have been assigned by the service module, or whose destination device is already known. (e.g. specified from Click).

Unassigned services cannot be seen in this section.

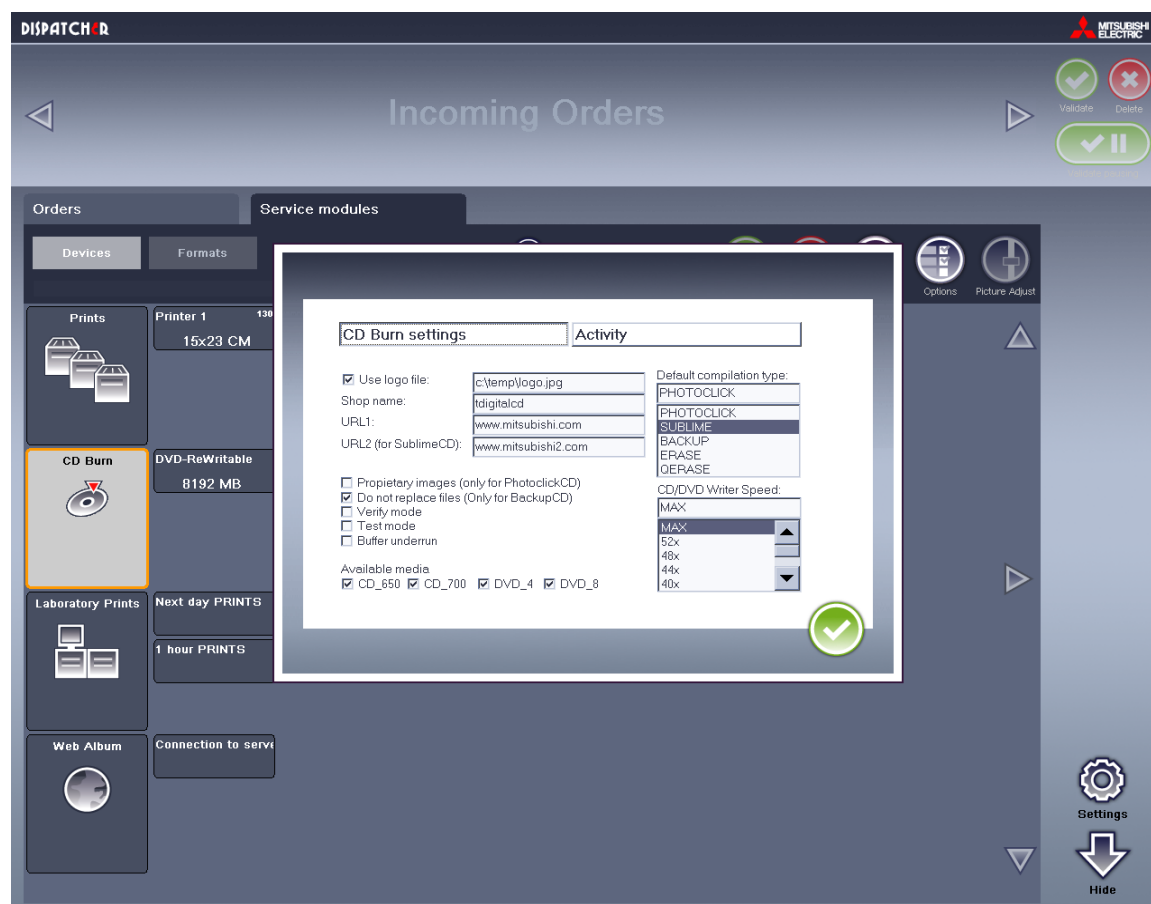
This screen is useful for finding out the amount of services that will be performed by specific devices. It is possible to PAUSE and RESTART/CONTINUE services according to needs, using this interface.

#### 2.5.1.1 Open specific Service Module adjustment application

To open a Service Module, press the button which identifies the Service Module to select it, and then the OPTIONS button on the toolbar.

This action opens the Service Module screen with its options and extensive information. The example shows the options screen of the CD Burn Service Module:





### 2.5.1.2 Working with services and their actions

Changes can be made to the services using the toolbar buttons. The status of each service is shown in the same way as on other screens (a coloured icon).

#### 2.5.1.2.1 PLACING A SERVICE MODULE IN PAUSE MODE

It is possible to place a complete Service Module in pause mode by selecting and pressing the "PAUSE" button. This makes the Service Module stop all the jobs it is processing until it is released again. It will then continue working at the point where it left off.

Some Service Modules, such as CD burning, cannot be stopped when the process has started, as the output device could be damaged. In this case, a message appears stating that the action is impossible.

#### 2.5.1.2.2 PAUSE MODE, RESUME, STOP AND EDIT A SERVICE

This screen enables the common actions on the toolbar to be executed on the selected service.

### 2.5.1.3 Completed services - "DONE"

Completed services appear on this screen, until the execution of a new service in the same device starts, or until the device is released, if it is in pause mode after processing. This is useful for identifying the output device for a specific service.

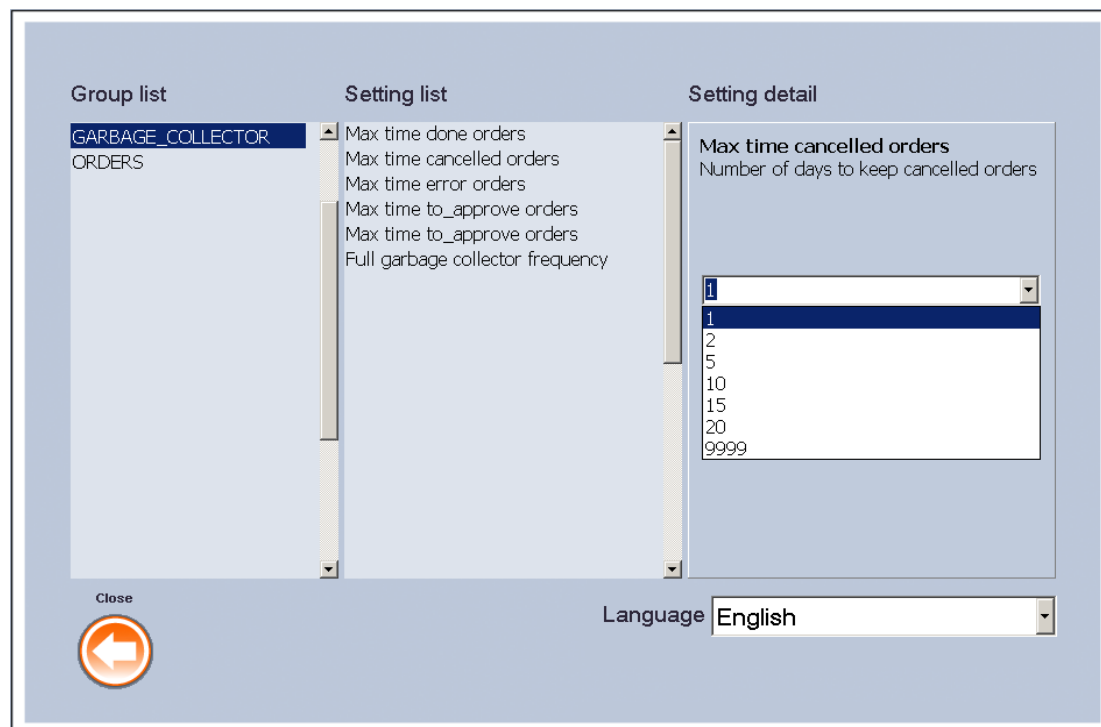
### 2.5.2 Formats

This screen enables viewing of all the Service Modules classified by output format, regardless of the amount of devices they support.

The services appearing are those that the Service Module has assigned or those for which the destination format is already known. For printing services, the formats could be 10 x 15, 13 x 18, etc.

### 3 Dispatcher configuration

#### 3.1 Configuration administration screen



#### Group list

ORDERS		
	Setting list	Setting detail
AUTO_APPROVE		<i>TRUE</i> : All orders reaching Dispatcher are automatically approved
		<i>FALSE</i> : All orders reaching Dispatcher must be approved manually.
		<i>CHOOSE</i> : Incoming orders are approved or pending approval depending on the source application. Pre-approved orders can be generated automatically in Kiosk depending on whether the client paid for it in that Kiosk. (Although this can be configured in Kiosk settings)

**GARBAGE COLLECTOR**

Old orders are checked for every 24 hours. The configuration of the following settings determines the action to be taken on orders:

Setting list	Setting detail
<i>MAX TIME DONE ORDERS:</i> (default value 1 day) Frequency of cleaning up of completed orders. Numerical value specified in days.	1-9999: shows how many days orders are saved for.
<i>MAX TIME CANCELLED ORDERS:</i> (default value 1 day) Frequency of cleaning up of cancelled orders. Numerical value specified in days.	
<i>MAX TIME ERROR ORDERS:</i> (default value 0 days - disabled) Frequency of cleaning up of error orders. Numerical value specified in days.	
<i>MAX TIME PENDING ORDERS:</i> (default value 0 days - disabled) Frequency of cleaning up of pending orders. Numerical value specified in days.	
<i>MAX TIME TO_APPROVE ORDERS:</i> (default value 0 days - disabled) Frequency of cleaning of orders to be approved. Numerical value specified in days.	
<i>FULL GARBAGE COLLECTOR FREQUENCY:</i> (default value 365 days) Frequency of complete cleaning.	
<i>STATISTICS_CLEANUP_TIME:</i> (default value 365 days)  Frequency of cleaning of order information from the system. The statistics data disappears.	Configuring the system to clean orders over one year old is recommended. If the value is 0, the statistics data are never deleted.

**TRANSFER**

Setting list	Setting detail
<i>LOCAL PATH:</i> Local folder, where incoming orders are stored. This folder must be writable.	
<i>SHARED PATH:</i> This is the shared name for the LOCAL PATH folder.	

In any of the above cases, part of the order data is saved in the system for counting in statistics.

The following parameter is used to delete these data automatically

## 4 Special Features of Service Modules

### 4.1 Print Server

The printing service is more complex in a Flexilab system, and the effect of some status changes on the Dispatcher administration interface warrants special attention.

Print Server can be configured in various ways. The configuration of the application and the connected printers and their formats may affect the status shown in Dispatcher.

The following table shows all the possible cases changing the status of Dispatcher and as a consequence is helpful in interpreting the information on the screen and quickly finding areas which require manual intervention for the recovery of errors in the printers (no paper, etc...)

			DISPATCHER		Print Server
			Dispatcher ORDERS/SERVICES status	Dispatcher DEVICES status	Automatic balancing between printers
ORDER mode	1 Printer ("ANY" balancing option) or DESTINATION DEVICE selected	Printer OK	EXECUTING	OK	n/a
		The printer is in ERROR	ERROR - If relaunched, it is assigned to the same original printer	Device ERROR	NO
	N Printers ("ANY" balancing option) or DESTINATION DEVICE selected	Printers OK	EXECUTING	OK	n/a
		Some printers in ERROR	EXECUTING and the part of the job assigned to the printers which have ERROR have to wait.	Device ERROR	NO
		All the printers in ERROR - or it is impossible to continue	EXECUTING. The job waits for the change of paper or solution to the problem.	Device ERROR	NOT automatic (can be changed from Dispatcher options)
			No other service can take priority until the one being executed is completed.		If all the printers left to finish printing fail, there is EXECUTING until the problem is solved
SPEED "MULTIPRINTER" mode (DESTINATION DEVICE = ANY)	1 initial printer (then other printers with the same format can be assigned)	Printer OK	EXECUTING	OK	Yes - If another printer providing the same format is free
		The printer is in ERROR	ERROR	Device ERROR	NO
	Several printers assigned (balanced automatically)	Printers OK	EXECUTING	OK	Yes - If another printer providing the same format is free
		Some printers in ERROR	EXECUTING	Device ERROR	YES
		All the printers in ERROR - or it is impossible to continue	ERROR	Device ERROR	n/a - YES, if the job is relaunched manually.
"SINGLE PRINTER" mode (with or without DESTINATION DEVICE) SPEED and ORDER do not matter	1 Printer (1 with only 1 format) and optionally, DESTINATION DEVICE	Printer OK	EXECUTING	OK	n/a
		The printer is in ERROR	ERROR	Device ERROR	NO
	N Printers (balanced option "ANY")	Printers OK	EXECUTING	OK	YES - A printer is initially assigned, and another cannot be reassigned until the end of the service
		Some printers in ERROR, but this does not affect the printer assigned initially.	EXECUTING	Device ERROR	NO
		ERROR in my printer	ERROR	Device ERROR	NO

# **APPENDIX**

## **DPS Monitor**

**Revision 2.0**

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## CONTENTS

1	GENERAL INFORMATION.....	3
2	BACK-UP AND RECOVERY .....	6
3	SELECTING APPLICATIONS TO BE RUN.....	7

## 1 General information

This module checks the general status of the other programs and manages communications with the DPS server if the software is ONLINE. Its specific functions are:

- Management of the system activation.
- Loading all the DPS applications in the correct order when the system is turned on
- Checking on the general state of DPS applications
- Opening and closing all the DPS applications
- Management of communications with the DPS server. This includes:
  - **Notification of incidences related to hardware malfunctioning**
  - **Notification of the activities of all completed operations**
  - **Notification of the state of devices and DPS applications**
- Backup copies and recovery management
- Restarting of the machine at a specific time.




The operator can access the DPS Monitor from the operator menu

The main DPS Monitor window is shown below.

DPS MONITOR

Main DPS Activation Configuration VPN


DPS MONITOR  
Version: 2.5.0  
SYSTEM ID: YP1PKA23XP3AKLK31


 Hide


KIOSK APPLICATIONS LIST


Application	Version	Running	Status	Error Code	Error Msg
ADJUSTMENTS	1.0.1 (2)	NO			
DISPATCHER_ADMIN	1.4.0 (6)	NO			
DISPATCHER_CORE	1.1.0 (3)	YES			
DPSBURN	1.0.1 (163)	YES			
DPSBURN_JOSE_BAD	1.0.0 (159)	YES			
DPSClick	2.5.0 (27)	YES	Ok	0	Ready
DPSCONNECTION	1.1.6	YES			
DPSLAB	3.0.19(0)	YES			
DPSLAB_LISTENER	2.0.0 (0)	YES			
DPSERVER	5.6.0 (40)	YES			
SENDCLICKDEVICES	1.0.0 (0)	NO			
STATISTICS	1.0.1 (546)	NO			
WEBALBUM	1.0.8	NO			

ACTIONS

 RESTORES

 MANUAL BACKUPS

 UPDATES

 EXPORT/IMPORT

- Display the global software version installed in this machine.
- Show the machine System ID. The SystemID is used for the registration and activation of applications in DPS Systems. The SystemID is unique for each machine.



- The applications installed and their current version is identified in the *application* and *version* columns.
- The *running* column shows if the application is running.
- The *status* and *error code* columns show the status of the devices (which may be *ready*, *warning*, *critical warning*, *error*, *initializing*) and a code which identifies the type of error in the device and what is necessary for the technical service to be able to solve the problem.
- *Error Msg* provides a brief explanation of the type of error.

From the main menu, it is possible to:

- Run or close the applications manually.
- Restart or shutdown the system.
- Registration and activation the software..
- Selection application to execute in the system.
- Enable/Disable the hardware detection to be connected the machine.



- Enable/Disable the USB device writing protection.
- This option allow the writing to the internal or external USB device.

For enable this option must be select the *Menu Configuration*, *USB Protection* section and select **Enable**.

For disable this option must be select the *Menu Configuration*, *USB Protection* section and select **Disable**.

The default option is "Enable" for DPSKiosk software. This means that every time the machine gets power on the USB write protection will be enabled.

For DPSClick and ClickLite software, the default option is "Disable".



**IMPORTANT**

When a USB is inserted in the machine, the parameter of the USB protection assigned for this device will be selected in that configured in the DPSMonitor en in the insertion moment.

If the USB protection parameter is changed, must will be extract and insert again the device for apply the new parameter.

**Reference:**

Mitsubishi Electric DPS Software is based in technology Copyright © 1995-2006, Oracle. (All rights reserved) for the internal management information.

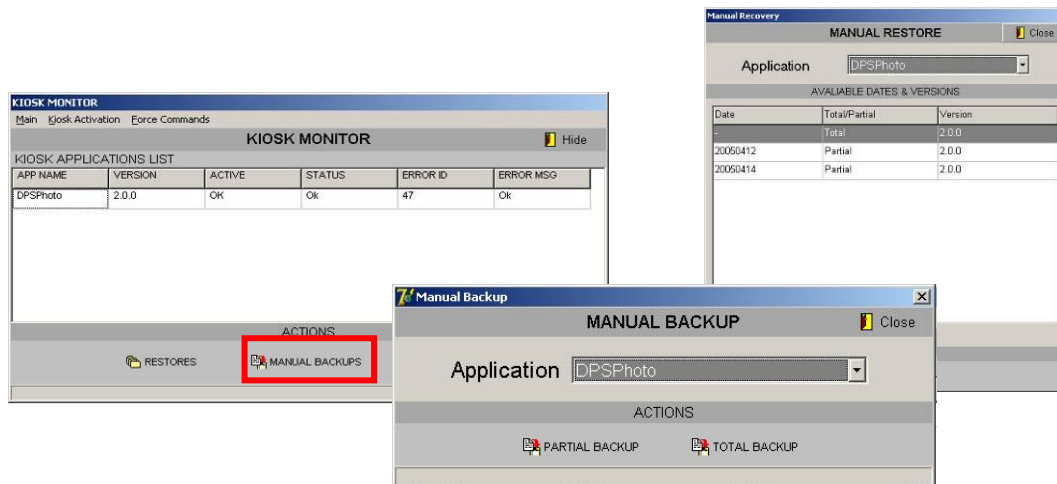
## 2 Back-up and recovery

DPS monitor automatically creates backup copies of critical files of all DPS applications. These are saved in the folder R:\Backups. These files are the databases related to the system configuration (Prices, general configuration, etc.) There are two types of backup copies:

- **Partial back-up**  
All the information on databases and images in remote requests are saved providing that the system is shut down (see section 'Shut down').  
  
A maximum of 10 partial backup copies are made at the same time. The previous copies are deleted from the system and only the last back-up copy is saved if two copies are executed on the same day.
- **Total back-up**  
All the information on the database and all the DPS Application files (except for the Calendars and Frames) are saved whenever a remote update is executed. A maximum of 3 total backup copies can be executed at the same time and only the last back-up copy is saved if two copies are executed on the same day.

The operator/ supervisor can execute a back-up copy manually from the main screen of the DPS Monitor:

1. Push the "Manual backups" button
2. Select the DPS application for which you want to make a back-up copy
3. Choose the type of back-up copy



The operator can restore the information saved manually from the DPS Monitor main screen:

4. Push the "Restores" button
5. Choose the DPS Application to be recovered
6. Choose the back-up copy for which you wish to recover data

### 3 Selecting applications to be run

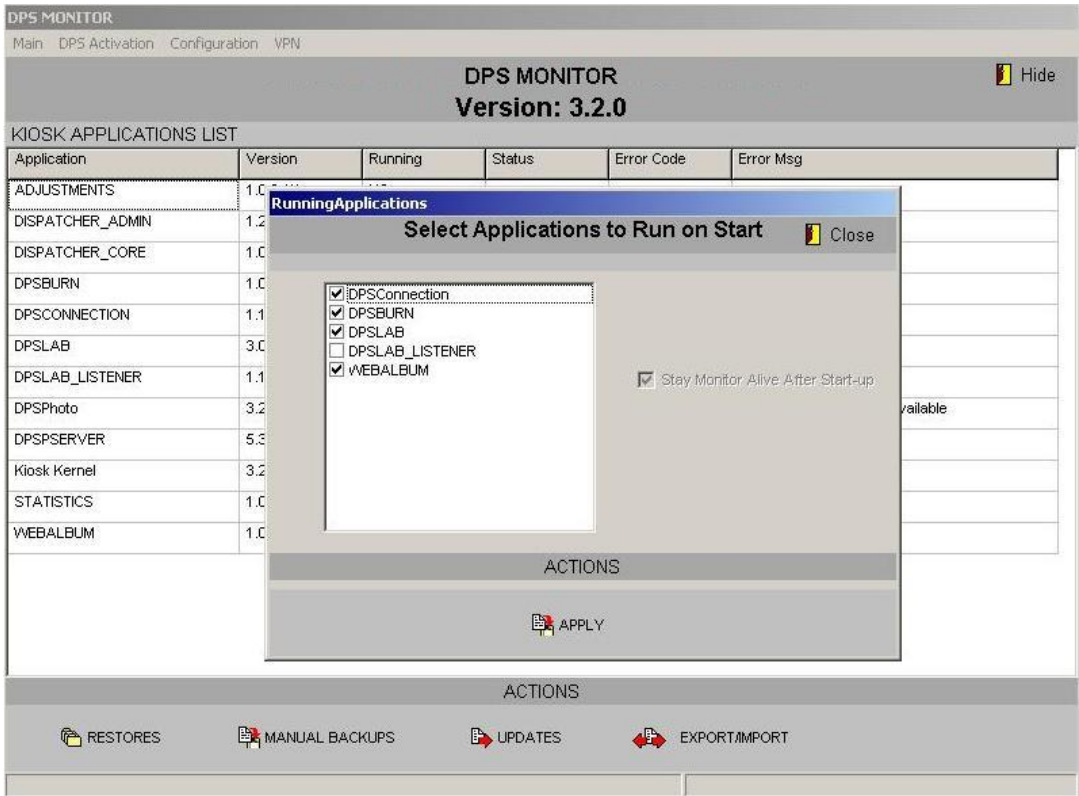
**NOTE**

Only personnel authorised by the manufacturer can make changes on this screen

It is possible to select the applications that will be run when the machine boots up. System performance will increase proportionally to the number of applications disabled. Each application is associated with a series of services and therefore disabling a given service will stop these services from running. The following table shows the relationship between applications and services:

Option in Click and Kiosk	Option on Monitor (internal name)	Services affected if disabled
Activate Monitor Manager	Monitor_Alive	Remote updates, web statistics and device warnings, Backups,
DVD / CD Burning	DPSBurn	Burning DVD / CD
Labs Laboratory	DPSLab	Laboratory Services
External orders (web)	DPSCConnection	Remote updates, web statistics and device warnings

To access this screen, click the option *Running applications* in the *Configuration* menu.



Regardless of what is selected on this screen, the system has a series of restrictions that will modify this selection subsequently. These restrictions depend on the product and whether it is *Online* or *Offline*, as the following table shows:

Product	Offline	Online
Kiosk Standalone	DPSCONNECTION are not run	DPSCONNECTION and Monitor are run
Kiosk OT	DPSCONNECTION are not run	DPSCONNECTION and Monitor are run
Click	DPSCONNECTION or Monitor are not run	DPSCONNECTION and Monitor are run
Click Lite	DPSCONNECTION.	A Click Lite will not be Online

**IMPORTANT**

From Click v2.6.0 and Kiosk v3.6.0 software, the Monitor Manager application will be available by default in all software, even in ClickLite application.

# **APPENDIX**

## **DPS PrintServer**

## CONTENTS

<b>1</b>	<b>GENERAL.....</b>	<b>4</b>
1.1	MAIN SCREEN .....	4
1.1.1	Descriptors .....	5
1.2	SEARCH PRINTERS SCREEN .....	5
1.2.1	Status messages .....	6
1.2.2	Supported printers .....	6
1.2.3	Supported formats .....	7
1.2.4	Published print sizes .....	8
1.2.5	Matte overcoat option .....	9
<b>2</b>	<b>PRINTER CONFIGURATION .....</b>	<b>9</b>
2.1	COLOUR CONFIGURATION.....	9
2.1.1	Classic colour correction .....	9
2.1.2	Image Quality Management (iQ).....	11
2.2	PRINTER SETTINGS .....	13
2.3	PICTURE AUTOMATIC ADJUSTMENTS .....	15
2.4	PRINT AREAS .....	16
<b>3</b>	<b>GENERAL SETTINGS .....</b>	<b>18</b>
3.1	ADJUST .....	18
3.1.1	Balanced .....	18
3.1.2	Balanced Type (Speed Mode) .....	18
3.1.3	Balanced Type (Order Mode) .....	18
3.1.4	Sorting .....	18
3.1.5	Beep on finished request .....	18
3.1.6	Logging / No resize .....	18
3.1.7	Full belt mode.....	19
3.1.8	Beep on full belt .....	19
3.1.9	Number of stacks .....	19
3.1.10	Custom backprint information .....	19
<b>4</b>	<b>CLASSIC COLOUR CORRECTION SETTINGS .....</b>	<b>20</b>
4.1	CP9550DW-S/CP9600DW-S/CP9800DW-S/DP9820DW-S USING CPD FILE.....	20
4.2	CP9550DW-S/CP9600DW-S USING ICC PROFILE .....	21
4.3	CP9500DWS/CP3020DW USING CPD FILES.....	23
4.4	CP9500DWS/CP3020DW USING ICC PROFILES .....	24
4.5	A FINAL RECOMMENDATION.....	25
<b>5</b>	<b>IMAGE QUALITY MANAGEMENT IQ.....</b>	<b>26</b>
5.1	EYE-ONE CALIBRATION KIT .....	26

5.2	WORKING WITH EYE-ONE DEVICE.....	26
5.2.1	Eye-One device parts .....	27
5.2.2	Eye-One operation .....	27
5.3	HOW TO ADJUST THE PRINTER: IQ MANAGEMENT WIZARD .....	29
5.3.1	Calibrating the printer.....	31
5.3.1.1	Visual Calibration .....	31
5.3.1.2	Calibration with Eye-One device.....	32
5.3.2	Printer Profiling .....	37
5.3.3	Calibration and profiling the MPU unit .....	40
5.3.4	Profiling Windows driver based Printers (CP3800 series and Plotter Series) .....	40
5.4	COMPATIBILITY .....	43
5.5	SUMMARY .....	44
5.5.1	Printing quality level optimisation table.....	44
<b>6</b>	<b>MPU SORTER .....</b>	<b>45</b>
6.1	INTRODUCTION.....	45
6.1.1	Requirements and compatibility.....	46
6.2	INSTALLATION.....	46
6.3	WORKING MODES .....	46
6.3.1	<i>Working as a single printer</i> .....	47
6.3.2	<i>Working as a central high production unit</i> .....	47
6.3.3	<i>Compatible formats</i> .....	47
6.4	CONFIGURATION .....	47
6.4.1	Balanced .....	48
6.4.2	Sorting .....	48
6.4.3	Full belt mode.....	48
6.4.4	Beep on full belt .....	48
6.4.5	Number of stacks .....	48
6.4.6	Custom Backprinting information .....	48
6.4.7	Recommended configuration .....	48
6.5	CONSIDERATIONS.....	49



## General

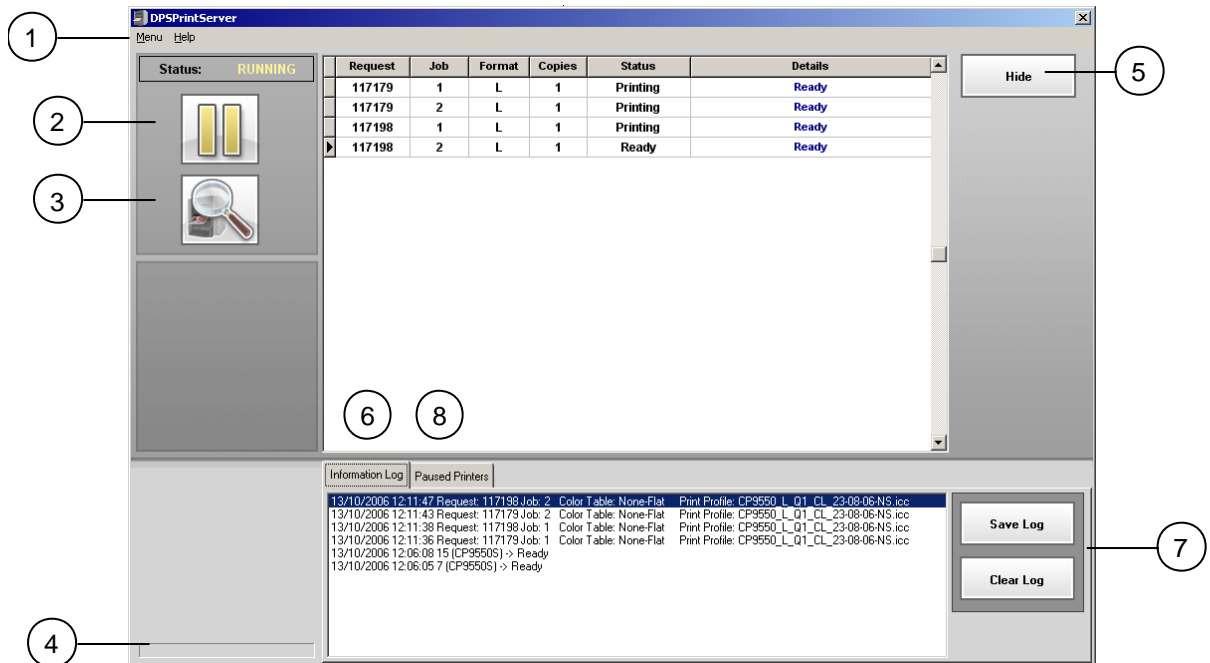
The DPS PrintServer module performs the instant print function for the DPS system, and releases the system from managing and sending information through the USB bus.

Some relevant DPS PrintServer issues:

- It can find and manage any Mitsubishi printer attached to the system. You can obtain information about its status (out of paper, number of copies remaining, printer door open, printing, etc...) at any time.
- It can manage any instant print format accepted by the printers (10x15/6x4, etc...)
- It applies very good ICC profiles to obtain the best printing results for each kind of printer.
- It manages the queue of images to be printed, to obtain maximum performance.
- It can be configured for speed printing (any available printer will accept any job) or be configured for order printing (images are assigned to specific printers for those images to be ordered by input time).

## Main screen

The DPS PrintServer main screen will appear, showing the list of orders and jobs being sent to the printer and the status of each one.



### 1.1.1 Descriptors

The following functions are available on this screen.

#### Menu

Click here for access to different actions and configuration screens.

#### Pause button

Switches from “pause” to “play”. The button displays the status being switched to when clicked. Use it to stop and restart the print queue.

#### Search Printers

This button explores the ONLINE printer status.

#### Progress panel

Shows the job being processed and the printer to which it is being sent.

#### Hide

Hides PrintServer.

#### Log Panel

All communication issues with the printer are shown in this panel.

#### Log Buttons

The log panel can be cleared or saved to a file from these buttons.

## Search printers screen



Click on this icon to reach the ‘Detected Printers List’ screen. The main purpose of this screen is to show the connected printers and other important information about them.

**Printer List** Scan Printers

Model	Alias	Format	Copies	Error	nSerial
CP9550S	2 CP9550S	L	184	Ready	B15424
CP9800DWS	0 CP9800DWS	WHG	101	Ready	D07970

**Selected Printer**  
CP9800DWS - 0 CP9800DWS - D07970

**Colour Configuration**

☒ Classic colour correction

☐ Image quality management

☐ Basic

☒ Advanced

Colour Setup...

ICC Settings...

**Printer Settings**

Parameters ...

**iQ**

Setup...

**Color Matching**

☒ Apply Colour Matching

☒ Use pictures embedded profiles

Printers Control Panel

Special Printers Installer

Close

From this list, the operator can check the **Model** of the printer, the **Alias** assigned to the printer (Name for recognising the printer), the **Format** (Paper size), the remaining **Copies** of the printer (if available), and the **Status** and the internal identification code of the printer (**nSerial** code).

This information cannot be changed manually. The system automatically detects these parameters (except for Alias).

The “Printers Control Panel” button gives access to the windows printer printing settings for the printer model CP3800.

The “Special Printer Installer” starts the installation process of CP3800 printers.

For setting up CP3800 printers refer to the installations documentation.

**NOTE**

Some printers cannot give information about the remaining paper, so “999” will be displayed.

### 1.1.2 Status messages

The operator will take action according to the status information:

- **If there is no printer detected (no information can be checked)**  
Press the ‘Scan Printers’ button to make the DPS PrintServer search for printers. Wait for 10/15 seconds.  
  
If no printer is detected, follow these steps:
  1. Check that LEDs on the front panel of the printer are On and Ready.
  2. Check that the printer is properly connected (USB and power supply cables).
  3. Restart the printer.
  4. Restart the DPS system.
- **Ink.../Paper.../Cassette.../Jam.../etc..**  
They are caused by problems with the consumables kit. Remove the paper and/or ink and make sure it is properly inserted into the printer.
- **Overheating**  
The printer is in safe self-pause mode due to head overheating. Wait for 30 seconds and the printer will start to work again once it has cooled down.
- **Open door.**  
The printer door is open.
- **Wrong Print Size.**  
The paper media is different to the format chosen. Check that the type of paper media inserted and the print format are the same.

### 1.1.3 Supported printers

CP9600 Series  
CP9550 Series  
CP3020 Series  
CP9500 Series  
CP9800 Series  
CP3800 Series  
CP9820 Series  
CP70 Series  
CP707 SeriesMPU  
Canon Plotter Series

## 1.1.4 Supported formats

Format name - cm - inches	CP95XX Series	CP9600 Series	CP98XX Series	CP3020 Series	CP3800 Series	Plotter Series	CP70/70 7 Series
A4 - 20X25 - 8X10	X	X	X	✓	X	X	X
A4H - 20X25 - 8X10	X	X	X	X	✓	X	X
LA4 - 20X30 - 8X12	X	X	X	✓	X	X	X
LA4H - 20X30H - 8X12H	X	X	X	X	✓	X	X
L - 10X15 - 4X6	✓	✓	✓	X	X	X	✓
LH - 10X15H - 4X6H	X	✓	X	X	X	X	X
LHG - 10X15HG - 4X6HG	X	X	✓	X	X	X	X
M - 9X13 - 3.5X5	✓	✓	✓	X	X	X	✓
MH - 9X13H - 3.5X5H	X	✓	X	X	X	X	X
MHG - 9X13HG - 3.5X5HG	X	X	✓	X	X	X	X
W - 15X23 - 6X9	✓	✓	✓	X	X	X	✓
WH - 15X23H - 6X9H	X	✓	X	X	X	X	X
WHG - 15X23HG - 6X9HG	X	X	✓	X	X	X	X
W10 - 10X15(x2) - 4X6(x2)	✓	✓	✓ <sup>1</sup>	X	X	X	✓
W10H - 10X15(x2)H - 4X6(x2)H	X	✓	X	X	X	X	X
W10HG - 10X15(x2)HG - 4X6(x2)HG	X	X	✓ <sup>1</sup>	X	X	X	X
W11 - 11.5X15(x2) - 4.4x6(x2)	✓	✓	✓ <sup>1</sup>	X	X	X	X
W11H - 11.5X15(x2)H - 4.4x6(x2)H	X	✓	X	X	X	X	X
W11HG - 11.5X15(x2)HG - 4.4x6(x2)HG	X	X	✓ <sup>1</sup>	X	X	X	X
W13 - 13X18W - 5X7W	✓	X	✓	X	X	X	✓
W13HG - 13X18WHG - 5X7WHG	X	X	✓	X	X	X	X
W20 - 15X20 - 6X8	✓	✓	✓	X	X	X	✓
W20H - 15X20H - 6X8H	X	✓	X	X	X	X	X
W20HG - 15X20HG - 6X8H	X	X	✓	X	X	X	X
W21 - 15X21 - 6X8.5	✓	✓	✓	X	X	X	X
W21H - 15X21H - 6X8.5H	X	✓	X	X	X	X	X
W21HG - 15X21HG - 6X8.5HG	X	X	✓	X	X	X	X
X - 13X18 - 5X7	✓	✓	✓	X	X	X	✓
XH - 13X18H - 5X7H	X	✓	X	X	X	X	X
XHG - 13X18HG - 5X7HG	X	X	✓	X	X	X	X
PLT - PLOTTER	X	X	X	X	X	✓	X
LLT - 40X60 - 15x24"	X	X	X	X	X	✓	X
NLT - 30X60 - 12x24	X	X	X	X	X	✓	X
RLT - 40X30 - 15x12	X	X	X	X	X	✓	X
W15H - 20X15(x2)H - 8X6(x2)H	X	X	X	X	✓	X	X
WL3H - 20X10(x3)H - 8X4(x3)H	X	X	X	X	✓	X	X
WLH - 20X10(x2)H - 8X4(x2)H	X	X	X	X	✓	X	X
WXLH - 20X13(x2)LH - 8X5(x2)LH	X	X	X	X	✓	X	X
WXH - 20X13(x2)H - 8X5(x2)H	X	X	X	X	✓	X	X
W76 - 15X7.6(x3) - 6X3(x3)	✓	X	✓ <sup>1</sup>	X	X	X	X
W76HG - 15X7.6(x3)HG - 6X3(x3)HG	X	X	✓ <sup>1</sup>	X	X	X	X

L51 - 15X5.1(x2) - 6X2(x2)	✓	✗	✓ <sup>1</sup>	✗	✗	✗	✗
L51HG - 15X5.1(x2)HG - 6X2(x2)HG	✗	✗	✓ <sup>1</sup>	✗	✗	✗	✗
W55 - 15X5.5(x4) - 6X2.2(x4)	✓	✗	✓ <sup>1</sup>	✗	✗	✗	✗
W55HG - 15X5.5(x4)HG - 6X2.2(x4)HG	✗	✗	✓ <sup>1</sup>	✗	✗	✗	✗
A5 - 15X20 - 6X8	✗	✗	✗	✗	✗	✗	✓
W10A5 - 10X15(x2)_A5 - 4X6(x2)_A5	✗	✗	✗	✗	✗	✗	✓
W13A5 - 13X18W_A5 - 5X7W_A5	✗	✗	✗	✗	✗	✗	✓

<sup>1</sup> When the printer is an MPU multi-cut formats are not supported.

## 1.1.5 Published print sizes

It's possible to enable or disable the print sizes supported by the software. This means that the software only will print using the resulting list. This chart is available at Menu/Settings/Published Printsizes

The operator can always come back to change any of these parameters.

This helps to minimize the lists that are shown in different places of our applications and also the different related products, saving time and efforts to configure all of them.

By default, all the formats are enabled. It's highly recommended to disable entirely some groups if the system is not going to use them, like HG media, Standard media, CP3020, Plotter, and so on.



### IMPORTANT

For enabling the CP9600 exclusive formats, the option "exclusive formats" in the CP9600 printer parameters section of DPSPrintserver must be checked.

### NOTE

By default, the Plotter and CP9600 exclusive formats are disabled.

### 1.1.6 Matte overcoat option

In the next text box, it is possible to view the relation between different printer models and Matte overcoat.

PRINTER MODEL	MATTE
CP95XX Series	X
CP9600 Series	X
CP98XX Series	✓(*)
CP3020 Series	X
CP3800 Series	X
MPU	X
Plotter Series	X
CP70 / CP707 Series	✓

#### (\*)NOTE

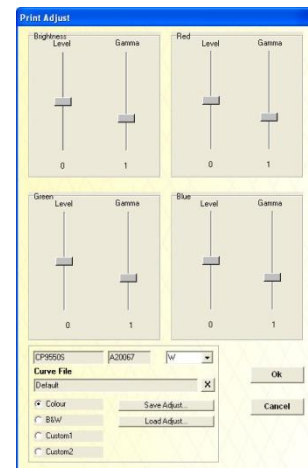
This option is compatible only with printers model **MITSUBISHI CP9820DW Series**, and format print **HG** and **Superfine** quality selected.

## Printer Configuration

There are different adjustable parameters available on the Search Printers Screen. Printers are factory-adjusted by default and the system is already configured to obtain a good printing quality. However, in order to achieve the best quality possible it is necessary to adjust some parameters and perform some periodical calibrations.

### Colour Configuration

There are two configuration modes which can be applied on each printer individually: Classic colour correction and Image quality management. Classic mode allows you to configure standard printer parameters through legacy adjustment screens. The available adjustments with classic colour correction are fine, but it is highly recommended to use the new Image quality management system, since it represents a forward step in colour managing and printing consistency comparing to the classic mode.



### 1.1.7 Classic colour correction

Access this screen by pressing the 'Explore' button or by selecting Menu > Settings > Printers

- **Basic**

Select Basic and click 'Colour Setup'. The colour components can be fine-tuned separately (R,G,B) or together (Brightness)

'Level' adjusts the colour saturation

'Gamma' adjusts the middle tones

Each printer can be adjusted individually and can be optimised for colour or for black & white pictures. It's also possible to define two more custom optimizations: Custom1 / Custom2. Different profiles can also be saved / loaded.

**NOTE**

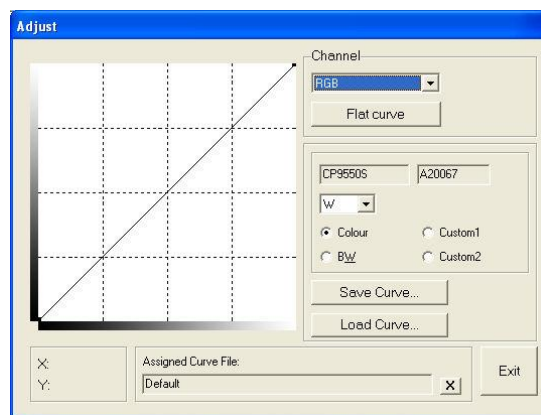
B&W, Custom1 and Custom2 optimisations are not applicable to DPSKiosk

- **Advanced**

Select Advanced and click 'Colour Setup'. Colour components can be fine-tuned separately (R,G,B) or together (RGB)

Separate adjustments can be made at every point on the curve from shadows to highlights.

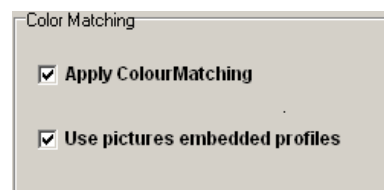
Adjustments can be made for each printer and each format individually, and they can be optimised for colour or for black & white pictures and optimize more options with the values Custom1 / Custom2. Different profiles can also be saved / loaded.



- **ICC Settings (Colour Matching, ICC Profiles)**

For best colour quality improvement, use Colour Matching.

Check 'Apply Colour Matching' option in 'Colour Matching' panel. If you want to use picture files embedded profiles, please also check 'Use pictures embedded profile'.

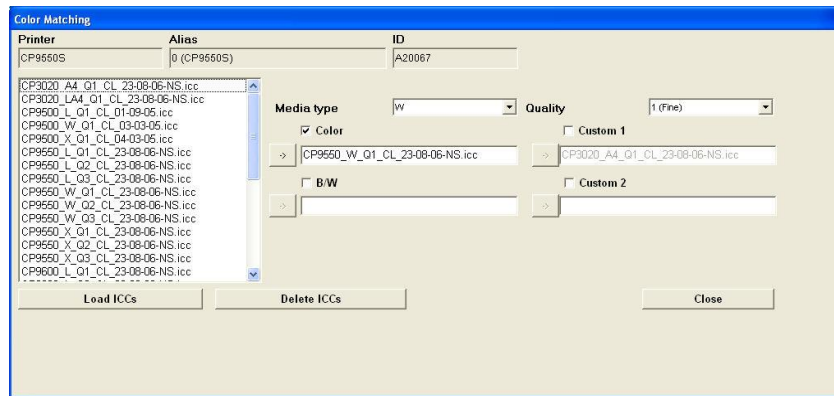


**NOTE**

Old Mitsubishi ICC profiles from DPS PrintServer versions prior to 5.6 are no longer supported. Use the new ones provided or contact Support if you had old specific ICC profiles.

From version 5.6. DPS PrintServer allows using standard ICC profiles as well as the new Mitsubishi ICC Profiles provided.

Select the printer you want to configure. Press the 'ICC Settings...' button in the 'Printer Settings' panel. This setting only affects the printer selected.



- **ICC Profiles list.** With the list on the left, it's possible to manage the ICC profiles placed in the DPSPrintServer\ICCs folder. It's possible to add new profiles to the list by pressing 'Load ICCs' and selecting an ICC profile placed in another location. It's also possible to delete them from the list by pressing 'Delete ICCs'.
- **Media Type.** Each media type can be configured with a different ICC profile. Be sure to configure at least the currently used media type.
- **Quality.** Each print quality has a different colour contrast and intensity. Different ICC profiles must therefore be used.
- **Colour – B/W.** Colour correction for colour or black & white images can be enabled and configured separately. Enabling Colour and disabling B/W is recommended. An ICC profile is assigned to the Colour mode of every media type and every quality by default.
- **Arrow button.** Use this button to assign the selected profile from the ICC profiles list to Colour or B/W.

Please, refer to chapter 4 for more information about classic colour correction settings.

#### NOTE

All default ICC profiles will be applied in any new detected printer.

#### References:

Part of DPS PrintServer (Mitsubishi Electric Europe, B.V.) uses "Colour Science i2e Image Enhancement Technology".

### 1.1.8 Image Quality Management (iQ)

Image Quality Management is a new concept of printer calibration and adjustment which makes possible to obtain the maximum quality in your prints.

Access this screen by pressing the 'Explore' button or by selecting Menu > Settings > Printers.

Then select 'Image quality management' and click 'Setup...' button to access iQ configuration screen.





**Selected printer**

CP9800DWS - 0 CP9800DWS - D07970

**Media type**

WHG

**Channel**

Color

**Available calibrations**

CP9800\_L\_Q2\_CL\_2009-01-16.CPG  
CP9800\_L\_Q3\_CL\_2009-01-21.CPG  
CP9800\_LHG\_Q2\_CL\_2009-01-19.CPG  
CP9800\_LHG\_Q3\_CL\_2009-01-20.CPG  
CP9800\_W\_Q2\_CL\_2009-01-16.CPG  
CP9800\_W\_Q3\_CL\_2009-01-20.CPG  
CP9800\_WHG\_Q2\_CL\_2009-01-21.CPG

**Assigned calibration**

CP9800\_WHG\_Q2\_CL\_2009-01-21.CPG


**Available icc profiles:**

CP9550\_L\_Q1\_CL\_2009-01-21.icc  
CP9550\_L\_Q2\_CL\_2009-01-27.icc  
CP9550\_L\_Q3\_CL\_2009-01-27.icc  
CP9550\_W\_Q1\_CL\_2009-01-27.icc  
CP9550\_W\_Q2\_CL\_2009-01-27.icc  
CP9550\_W\_Q3\_CL\_2009-01-27.icc  
CP9550\_X\_Q1\_CL\_2009-01-27.icc

**Assigned icc profile**

CP9800\_WHG\_Q2\_CL\_2009-01-21.icc

**iQ**  
image quality management



**1 · Select printing quality you want to adjust**

2 (Fine)

**2 · PRESS START WIZARD**

to calibrate and / or generate an ICC profile

**Start wizard**

Close

On the left side are placed all the controls which allow configuring the different adjustments assigned to the printer. On the right side is placed the button to start a new iQ adjustment process. It is highly recommended not to change the configuration of the left side panel. The values are configured automatically when you perform a calibration or profiling process with your printer, and they are only intended for administration or advanced testing purposes.

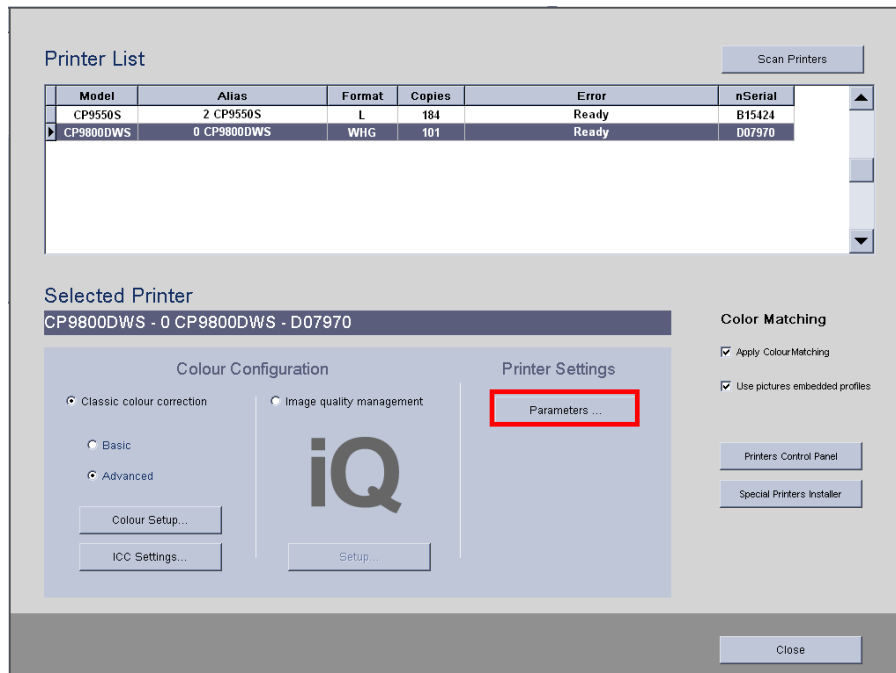
To start the iQ adjustment process, please, follow the steps on the right side: Firstly, select the quality you want to adjust, and then press the 'Start wizard' button.

A new screen will appear and will guide you through the process. To obtain fully detailed information about the iQ management system, please, refer to chapter 5.

## Printer Settings

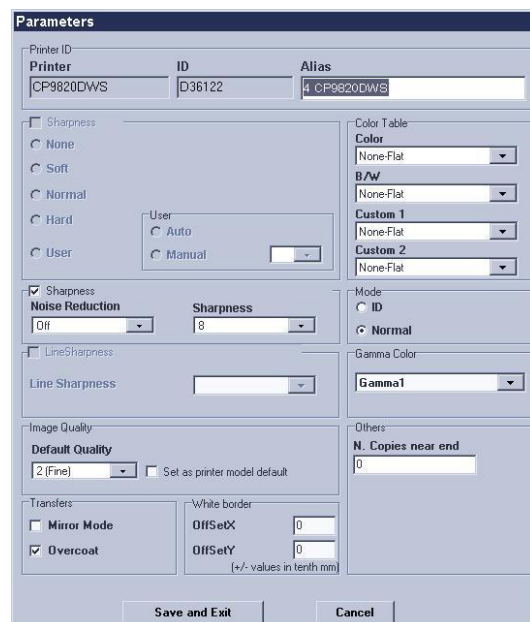
Printers are factory-adjusted. However, some working parameters can be adjusted.

Access this screen by pressing the Explore button or by selecting Menu > Settings > Printers.



If you select a printer and then click on “Parameters” you will be able to change some advanced printer options which can be used to fine tune adjustments or improve print quality.

- **Alias.** Change this to improve printer identification.
- **Sharpness.** Detail improvement.  
Recommended values:  
CP9500DW-S: User – Manual - 6  
CP9550DW-S: Noise:Off Sharpness:4  
CP9600DW-S: Noise: Off Sharpness:4  
CP9800DW-S: Noise:Off Sharpness:8  
CP9820DW-S: Noise:Off Sharpness:8  
CP70/CP707: Noise: Off Sharpness:4  
CP3800D: Not available  
CP3020D: Not available



- **Image Quality.** The default print mode of the printer which is being configured. This quality level is used when no image quality is specified by the sender application. Improved quality involves a higher quality of image and colour, but also a slower printing speed.
- **Gamma Colour.** Colour depth adjustment. Leave the default values if you are using ICC profiles.
- **Colour Tables.** The recommended configuration is None-Flat and it is the correct option to use with ICC profiles (default).

- **Number of copies near end** will generate an incident when reaching the configured number.
- **Save and Exit** to apply changes.
- **Exclusive Formats.** Activating this option CP9600DW-S will work with its own formats. This helps to avoid CP9600DW-S printing standard 10x15 cm (6x4 inc) or 15x23 cm (6x9 inch) sizes when the printer is attached to a system together with other printers like CP9500DW-S also using that media size. Due to HIGH QUALITY and SLOW SPEED of CP9600DW-S printer, it is preferable to reserve this printer for special jobs like Studio pictures, where high quality is a must. When this option is checked and the user wants to send a request to that printer, special paper size must be chosen from the list of available paper size 10x15 cm (6x4 inc) or 15x23 cm (6x9 inch).
- **Mirror Mode.** Activating this option the image will be inverted (from left to right), producing a mirror effect. This option is deactivated by default.
- **Overcoat.** This option enables the printing of an overcoat layer on the picture. It is activated by default.
- **White border.** This option is used to adjust the position of the picture over the white border when this option is selected to print pictures. This is useful when the print out of the printer is slightly shifted respect the upper/lower or right/left edges.

The target is to have the same thickness of white border for all sides. This value is settable in fractions of 0.1 millimetres and can also be positive or negative.

The default values are usually the best, but the operator can vary these parameters to improve the performance of the printer on a printer-by-printer basis.

NOTE
Do not change the Colour Table unless ICC profiling applies.
In this case, 'Flat' or 'No tables' will be automatically selected

NOTE
For CP9550DW (A) choosing FineDeep image quality, will make the printer print in SuperFine mode

### Restrictions:

With the format 10x15x2 based on paper-cut, white edge cannot be implemented.

When a plotter printer is selected, the "Parameters" screen shows special configuration options that only apply to the plotter.

- **Advanced interpolation.** This option allows resizing the plotter images for the format PLOTTER. This option is disabled by default.
- **Max MegaPixels.** This option allows specifying how many megapixels will be used when resizing to format PLOTTER. It is only applied when advanced interpolation is activated.

## Picture automatic adjustments

Picture automatic adjustments applies changes to specific parts of the image. It is useful to enhance highlights and shadows, colours, etc.

To apply automatic adjustments, a configuration screen accessible from the main screen has been created. Go to Menu - Settings - Picture Automatic Adjustments to open the configuration menu.

Each one of the automatic adjustments options can be individually activated or deactivated. Moreover the impact of each one of the parameters on the image can be modified. The application is configured to improve the pictures aspect, although it is possible to adjust the configuration in order to get best results.

The screenshot shows the 'Picture automatic adjustments' configuration window. It features a title bar and a 'PARAMETERS' section. The parameters are as follows:

Parameter	Value
Enable picture automatic adjustments	Checked
Adaptive Brightness Enhancement	Checked
Shadow and HighLight Enhancement	Checked
Highlights Correction Strength	2
Shadows Correction Strength	1
Adaptive Color Enhancement	Checked
Local Sharpness Enhancement	Unchecked
Memory Color Enhancement	Checked
Local Noise Reduction	Unchecked
Highlight Contrast	0
Shadow Contrast	0
Shadows Desaturation	0,1

At the bottom of the window are two buttons: 'DEFAULT' and 'CLOSE'.

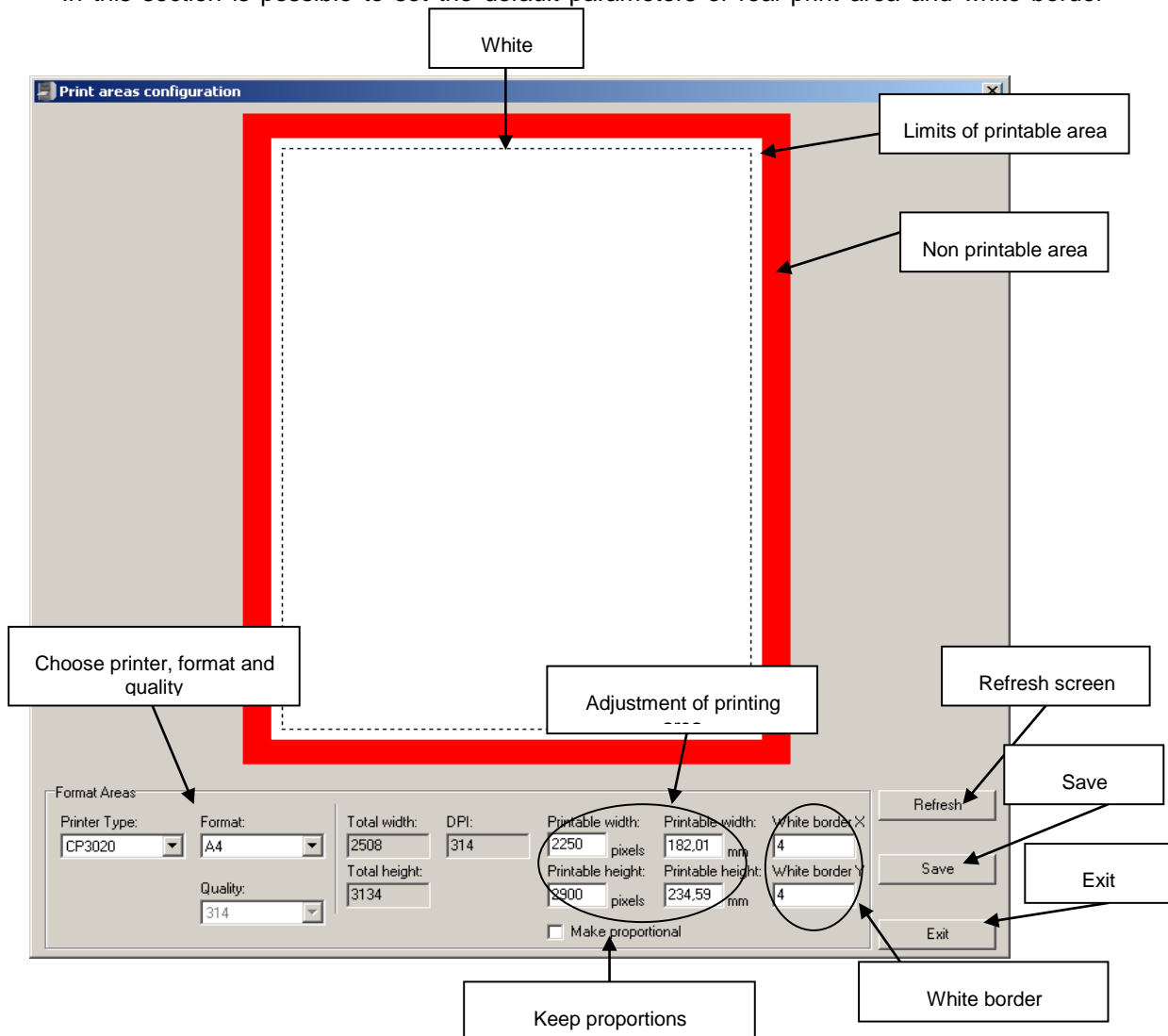
- Enable picture automatic adjustments
- Adaptive brightness enhancement: This option enables the use of shadow and Highlight enhancement.
- Shadow and highlight enhancement: this option enables highlights correction strength and Shadows Correction Strength options.
- Adaptive colour enhancement
- Local sharpness enhancement
- Memory colour enhancement
- Local noise reduction
- Highlight contrast
- Shadow Contrast
- Shadow desaturation

"DEFAULT" button restores default factory values.

*Note: Certain parts of Mitsubishi Electric DPS PrintServer have been created using "Colour-Science i2e Image Enhancement Technology."*

## Print Areas

In this section is possible to set the default parameters of real print area and white border



dimensions depending on printer model (and printing quality in some cases).

The final picture data being sent to the printer is always slightly bigger than the real print area size, in order to compensate possible deviations of the thermal head position respect the paper position. This helps to ensure that, even when the paper is slightly shifted to one side, there's not any edge of the paper without picture information being printed.

By default, the print area is equal to the picture data dimension in terms of pixel size. (width and height). This data ('Printable width', 'Printable Height') can be adjusted in this screen.

Also the dimensions of the white frame for white border prints can be adjusted here.

### NOTE

It's possible to adjust different offset per each printer of the same model being installed in the same system, but not in this screen. It's required to access to the individual printer parameter menu and change horizontal and vertical offset. This is useful when printers of the same model are showing differences between their respective printing position offsets.

### IMPORTANT NOTE

Cutting formats (10x15x2, 11'5x15x2) do not support white border

When printers or format are chosen, changes must be saved or cancelled.

**NOTE**

If cutting formats are modified (10x15x2 ; 11'5x15x2) the composition file must be modified for optimal results.

## General settings

These parameters control the behaviour of the PrintServer.

There are some of them that are general for every printer and others applied only to the MPU Sorter.

Please refer to chapter 6 for further information about MPU Sorter unit.

### Adjust

Access this screen by selecting Menu > Settings > Adjust

#### 1.1.9 Balanced

This is the default configuration used if no 'Balanced' mode is specified in the requests sent. If checked, the jobs in a request are sent to printers that can print the selected format. Otherwise, all jobs will be sent to one of the printers that supports the format.

##### 1.1.10 Balanced Type (Speed Mode)

DPS Print Server sends any order to the first printer available. This increases the printing speed, but the printing order is lost.

##### 1.1.11 Balanced Type (Order Mode)

A set of ordered printing jobs are assigned to each available printer. Instant prints are ordered, but speed is lost (because an available printer could not be assigned in order to prevent the order being lost).

##### 1.1.12 Sorting

Whenever the print queue is ready to print, this option will reverse (Descending) or not (Ascending) the printing order. This option is useful for copies to land on the print tray in reverse order.

##### 1.1.13 Beep on finished request

If checked, a sound will be played when a request finishes printing.

##### 1.1.14 Logging / No resize

These parameters are for technical purposes. Please leave them unchecked.

### **1.1.15 Full belt mode**

This setting only applies to MPU unit, it indicates what is the action that the application must do when a stack has reached the end of the belt. The values can be:

- STOP: PrintServer will stop printing with MPU till the stack is removed from the belt by the operator (only the stack over the sensor it's needed to be removed).
- MOVE: PrintServer will move the belt so the first stack will fall at belt tray.

### **1.1.16 Beep on full belt**

This setting only applies to MPU unit, when checked PrintServer will emit a sound when a stack has reached the belt end.

### **1.1.17 Number of stacks**

This setting only applies to MPU unit. It allows configuring the number of the MPU output stacks on the belt.

### **1.1.18 Custom backprint information**

See MPU related information in this manual further on.



## Classic colour correction settings

This chapter refers to the classic colour corrections. It is highly recommended to use the new iQ Image quality management system (refer to chapter 5) instead classic settings. However, the system is predefined in classic colour correction in order to allow backward compatibility and it is possible to keep using the classic system instead.

It is important to take into consideration that old Easy Colour Adjustments have been removed from the Classic colour correction options because they have been embedded on the new iQ Image quality management system as the new concept "Visual Calibration". (Please, refer chapter 5 for more details).

In Classic colour correction mode, after the printer is detected, some colour and quality set-up can be carried out. A choice between using CPD colour adjustment files or ICC profiles is possible. It is very important to set up the system according to your choice.

ICC profiles are automatically applied to each printer and it is the default Mitsubishi recommended configuration.

### IMPORTANT NOTE – ICC COMPATIBILITY

Now DPS PrintServer supports standard ICC profiles and special Mitsubishi ICC profiles. Mitsubishi ICC profiles follow a new design and are not compatible with the old ones, so, ICC profiles from older versions than DPS PrintSever 5.6 are not longer compatible.

## CP9550DW-S/CP9600DW-S/CP9800DW-S/DP9820DW-S/CP70/CP707 using CPD file

1. Check Colour Correction group has the 'Advanced' option checked.
2. Press the 'Setup' button.
3. Check that the CPD default curve for CP9550DWS is loaded. The grey curve is a guide if one is needed to make small adjustments, in order not to stray too far from the current standard CPD adjustment for the printer.
4. Press the 'Exit' button.
5. Press the 'Parameters' button on the 'Detected Printer list' to show this form.

**Adjust Parameters**

Printer ID	ID	Alias
CP9550S	B06451	Printer 2

**Sharpness**

☐ None  
☐ Soft  
☐ Normal  
☐ Hard  
☐ User

☐ Auto  
☐ Manual

**Color Table**

**Color**  
 Table0-Printer Color

**B/W**  
 Table0-Printer Color

**Sharpness (only CP9550)**

**Noise Reduction**  
 Off

**Sharpness**  
 4

**N. Copies near end**

0

**Image Quality**

**Default Quality**  
 1 (Fine)

☐ Set as printer model default

**Gamma Color**

☐ High Contrast  
☒ Photo

**Mode**

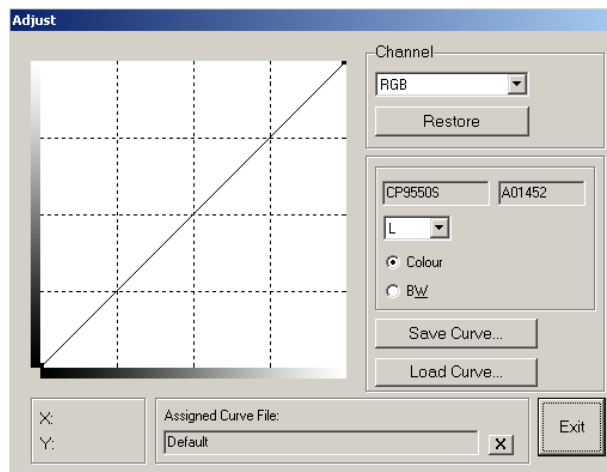
☐ ID  
☒ Normal

Save and Exit  
 Cancel

- a. In the 'Colour Table' group in the 'Colour' drop-down list box, select the 'Printer Colour' option. Do not use the 'Flat' colour table. The convention of these names depends on the printer model.
  - b. In the 'B/W' drop-down list box, always leave the 'Printer Colour' option selected.
  - c. Set 'Noise Reduction' to 'off'.
  - d. Set 'Sharpness' to 4.
  - e. Set 'Superfine mode' to 'off'.
  - f. Set 'Gamma Colour' to 'Photo'.
  - g. Set 'Mode' to 'normal'.
6. The 'Apply Colour Matching' option in the 'Colour Matching' panel must be unchecked.

### **CP9550DW-S/CP9600DW-S using ICC profile**

1. Check that the Colour Correction group has the 'Advanced' option checked.
2. Press the 'Set-up' button.
3. Check that NO CPD curve is loaded. The Flat line must be selected.
4. Press the 'Exit' button.



5. Press the 'Parameters' button on the 'Detected Printer list' to show the Parameters form.
  - a. Select the 'Flat' option in the 'Colour Table' group in the 'Colour' drop-down list box. Do not use the 'Printer Colour' colour table. The full option naming convention depends on the printer model.
  - b. In the 'B/W' drop-down list box, leave the 'Printer Colour' option, if there is no special colour profile for that option.

**Parameters**

Printer ID  
**Printer** CP9550S **ID** B06451 **Alias** Printer 2

Sharpness  
☐ None  
☐ Soft  
☐ Normal  
☐ Hard  
☐ User  
 User: ☐ Auto ☐ Manual [ ]

Color Table  
**Color** [None-Flat]  
**B/W** [Table0-Printer Color]

Sharpness (only CP9550)  
**Noise Reduction** [Off] **Sharpness** [4]

Image Quality  
**Default Quality** [1 (Fine)] ☐ Set as printer model default

Gamma Color  
☐ High Contrast  
☒ Photo

Mode  
☐ ID  
☒ Normal

**N. Copies near end** [0]

[Save and Exit] [Cancel]

- c. Set 'Noise Reduction' to 'off'.
  - d. Set 'Sharpness' to 4.
  - e. Set 'Superfine mode' to 'off'.
  - f. Set 'Gamma Colour' to 'Photo'.
  - g. Set 'Mode' to 'normal'.
6. Check the 'Apply Colour Matching' option in the 'Colour Matching' panel. If you want to use picture files embedded profiles, also check 'Use pictures embedded profile'.

**Color Matching**

☒ **Apply Colour Matching**

☒ **Use pictures embedded profiles**

7. Press 'ICC Settings...' button on the 'Printer Settings' panel. On list on the left, you have the previously loaded profiles.
  - a. Select 'Media Type' and the desired Quality.
  - b. Check the 'Colour' option.
  - c. The ICC profile on the left must be assigned using the arrow button.
  - d. The B/W option must be left unchecked if there is no special colour profile for that option.

**Color Matching**

**Printer** CP9500S **Alias** Printer 1 **ID** 110137

Media type [L]  
 Quality [1 (Fine)]

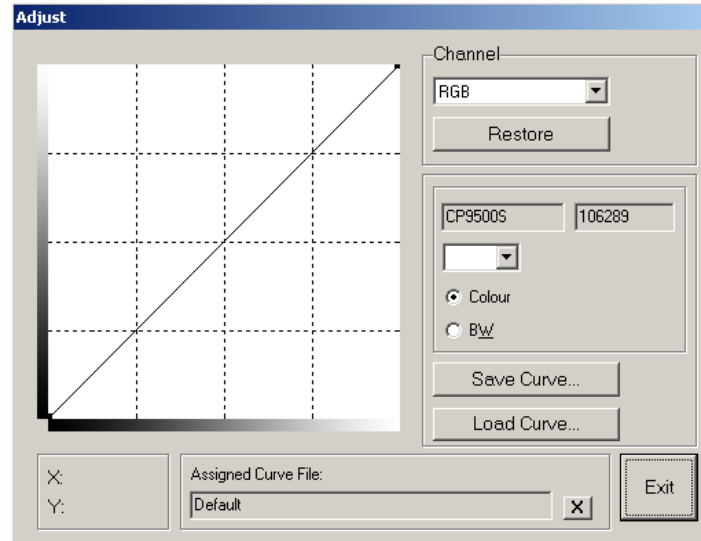
☒ **Color**  
☐ **B/W**

ICC Profiles List:  
 CP3020\_A4\_Q1\_CL\_04-03-05.icc  
 CP3020\_LA4\_Q1\_CL\_04-03-05.icc  
 CP9500\_L\_Q1\_CL\_01-09-05.icc  
 CP9500\_W\_Q1\_CL\_03-03-05.icc  
 CP9500\_X\_Q1\_CL\_04-03-05.icc  
 CP9550\_L\_Q1\_CL\_17-01-06.icc  
 CP9550\_L\_Q3\_CL\_22-08-05.icc  
 CP9550\_W\_Q1\_CL\_17-01-06.icc  
 CP9550\_X\_Q1\_CL\_17-01-06.icc  
 CP9550-L-19-08-2005.icc  
 CP9550-L-19-12-05.icc  
 CP9550-W-20-12-05.icc  
 CP9550-X-20-12-05.icc  
 sRGB IEC61966-2.1.icc

[Load ICCs] [Delete ICCs] [Close]

## **CP9500DWS/CP3020DW using CPD files**

1. Check that the Colour Correction group has 'Advanced' option checked.
2. Press the 'Set-up' button.
3. Load or 'draw' the CPD curve that you need.
4. Save the new curve if needed and press the 'Exit' button.



5. Press the 'Parameters' button on the 'Detected Printer list' to show the Parameters form.
  - a. In the 'Colour Table' group, in the 'Colour' drop-down list box, select the 'Printer Colour' option. Do not use the 'Flat' colour table. These convention of these names depends on the printer model.
  - b. In the 'B/W' drop-down list box, always leave the 'Printer Colour' option selected.
  - c. Set 'Sharpness' to 'User' and 'Manual' to 6.
  - d. Set 'Gamma Colour' to 'Photo'.
  - e. Set 'Mode' to 'normal'.

6. The 'Apply ColourMatching' option in 'Colour Matching' panel must be unchecked.

## **CP9500DWS/CP3020DW using ICC profiles**

1. Check that the 'Advanced' option checked in the Colour Correction group.
2. Press the 'Set-up' button.
3. Check that NO CPD curve is loaded. Flat line must be selected.
4. Press the 'Exit' button.

5. Press the 'Parameters' button on the 'Detected Printer list' to show the parameters form
  - a. In the 'Colour Table' group in the 'Colour' drop-down list box, select the 'Flat' option. Do not use the 'Printer Colour' colour table. The full option naming convention depends on the printer model.
  - b. In the 'B/W' drop-down list box, leave the 'Printer Colour' option if there is no special ICC profile for B/W pictures.

**Parameters**

Printer ID

Printer	ID	Alias
CP3020DA	000003	10 (CP3020DA)

☒ Sharpness

☐ None  
☐ Soft  
☐ Normal  
☐ Hard  
☒ User

User

☐ Auto  
☒ Manual

6

Color Table

Color

None-Flat

B/W

Table0-Printer Color

☐ Sharpness (only CP9550 / C)

Noise Reduction

Sharpness

☐ LineSharpness

Line Sharpness

Image Quality

Default Quality

1 (Standard)

☐ Set as printer model default

Transfers

☐ Mirror Mode  
☐ Overcoat

Mode

☐ ID  
☒ Normal

Gamma Color

Photo

Others

N. Copies near end

0

Save and Exit Cancel

- c. Set 'Sharpness' to 'User' and 'Manual' to 6.
- d. Set 'Gamma Colour' to 'Photo'.
- e. Set 'Mode' to 'normal'.

## **A FINAL RECOMMENDATION**

Current ICC profiles are created using the printer's flat colour curves, in order to start with neutral corrections. They are not based in any CPD file.

Recommendation: DO NOT MIX Printer Colour curves or CPD files with ICC profiles.

Remember that each print size and print speed require different colour profiles.

## Image quality management iQ

Image Quality Management or, iQ management, is a new way to adjust and calibrate printers to obtain the best colour reproduction and consistency.

The system is based on a wizard that guides the user to calibrate each printer-paper-quality combination. Calibration requires printing some patterns in order to use them during the adjusting process.



In order to use the maximum capabilities of the printers, the user should obtain an Eye-One calibrator device. However, the Eye-One device is not essential to get a good colour reproduction. Please, contact your dealer for further information.

There are two main steps on the iQ process:

### 1) Calibration.

Calibration helps to keep a regular response of the printer thermal head through the whole range of light intensity. Also helps to get the most of the thermal head dynamic range. A good calibration will result in perfect grayscale tones, without colour casts.

Calibration can be performed with an Eye-One device or through a visual system. Eye-One calibration is the best way to calibrate objectively the printer and obtain the best results. The visual calibration system uses the same method as the former Easy Colour Adjustment technology, which has been improved and included in the iQ management process.

### 2) Profiling

Profiling process, applied over a calibrated printer, helps to improve colour reproduction accuracy, whatever the darker or brighter the colour is. The ICC profiles transform original picture colour to a common colour space (sRGB).

## Eye-One Calibration kit

The Eye-One calibration kit includes an i1Pro spectrophotometer. It is a fast, handheld, colour measurement device which measures the full visible spectrum of the light reflected from colour samples and it is used for monitor and printer profiling/calibration.

It also includes a special support for measurement and a special accessory for monitor profiling.

For monitor profiling, please install the software provided on the CD. And follow the documentation provided with the kit. For printer calibration it is not necessary to install any additional software.



## Working with Eye-One device

Eye-One calibration device connects with the system through USB cable. You will find the drivers on 'C:\Drivers\Eye-One\'. For further information about installation, please refer the Eye-One installation document.

### EYE-ONE USB CONNECTION ADVICE

Please, do not use front USB connection to connect Eye-One Device. Use any of free system rear USB connections instead.

Eye-One device is used by DPS PrintServer for printer calibration and profiling. To do so, several prints with colour patches have to be made. Then they have to be read with the device in order to obtain the required measurements for the printer adjustment.

### 1.1.19 Eye-One device parts

These are the most important parts of the Eye-One device:



The device has an operation button on the left side. This button has to be pressed for reading samples or for device calibration.

The white calibration tile is used only for the Eye-One calibration. The device must be placed over it and the button has to be pressed when prompted in the software. Then, Eye-One device will be calibrated and ready to use.

### 1.1.20 Eye-One operation

In this point it is explained how to read the printed patches with the Eye-One calibrator device, either you are calibrating or profiling your system. It is very important understanding it because this process will be assumed in the following chapter 5.3, where iQ management wizard will be explained.

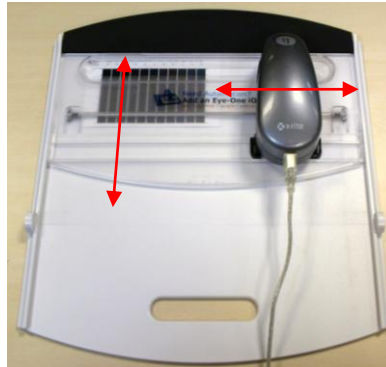


After printing one or more patterns you will have to read them with the device. Please, repeat the following steps for each printed pattern:



device must slide freely in and the transparent plastic vertical direction. Make sure not too close to the left process must start on a white

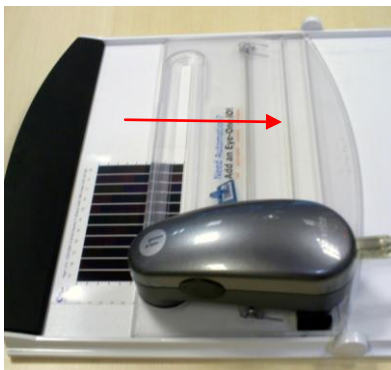
1. Put the printed target on the reading support as shown, attaching it with the upper black plastic support.



2. Put the Eye-One device on the black plastic slider support as shown. Eye-One horizontal direction guide must slide in the printed target is because the reading surface.



3. Slide Eye-One and transparent support to the top left, as shown. Eye one device must be placed aligned with the first row of patches and pointing to a white background on the left of the first patch. When prompted by the software, click on the Eye-One operation button and leave it pressed. Then, you will hear a "beep" signal (If you don't hear a beep signal, because maybe your system does not include internal speaker, just wait a couple of seconds). In this moment slide the Eye-One device horizontally to the right until reaching the end of the patches row. Try to move the reading device in a constant speed. With some practice you can read a 4x6 print in less than a minute (45-50 seconds).



4. Move down the transparent plastic sliding support, aligning the plastic support hole to the next row, and return the Eye-One device to the left as shown. Then repeat the process until finished.

## How to adjust the printer: iQ management wizard

iQ management wizard is the application that will guide you in the printer adjustment process.

If you are not satisfied with your printing quality / consistence, please follow the iQ management steps in order to adjust your printers. If you are satisfied with your printing quality and you have an Eye-One device you will be able to get even better quality. If you don't have an Eye-One device, use the wizard only if printing quality is not good, because the visual adjustment process is not so accurate.

Access the initial screen by pressing the 'Explore' button or by selecting Menu > Settings > Printers.

Then select 'Image quality management' and click 'Setup...' button.

**Selected printer**  
CP9800DWS - 0 CP9800DWS - D07970

**Media type**  
WHG

**Channel**  
Color

**Available calibrations**

- CP9800\_L\_Q2\_CL\_2009-01-16.CPG
- CP9800\_L\_Q3\_CL\_2009-01-21.CPG
- CP9800\_LHG\_Q2\_CL\_2009-01-19.CPG
- CP9800\_LHG\_Q3\_CL\_2009-01-20.CPG
- CP9800\_W\_Q2\_CL\_2009-01-16.CPG
- CP9800\_W\_Q3\_CL\_2009-01-20.CPG
- CP9800\_WHG\_Q2\_CL\_2009-01-21.CPG

**Assigned calibration**  
CP9800\_WHG\_Q2\_CL\_2009-01-21.CPG

**Available icc profiles:**

- CP9550\_L\_Q1\_CL\_2009-01-21.icc
- CP9550\_L\_Q2\_CL\_2009-01-27.icc
- CP9550\_L\_Q3\_CL\_2009-01-27.icc
- CP9550\_W\_Q1\_CL\_2009-01-27.icc
- CP9550\_W\_Q2\_CL\_2009-01-27.icc
- CP9550\_W\_Q3\_CL\_2009-01-27.icc
- CP9550\_X\_Q1\_CL\_2009-01-27.icc

**Assigned icc profile**  
CP9800\_WHG\_Q2\_CL\_2009-01-21.icc

**iQ image quality management**

1 - Select printing quality you want to adjust  
2 (Fine)

2 - PRESS START WIZARD  
to calibrate and / or generate an ICC profile

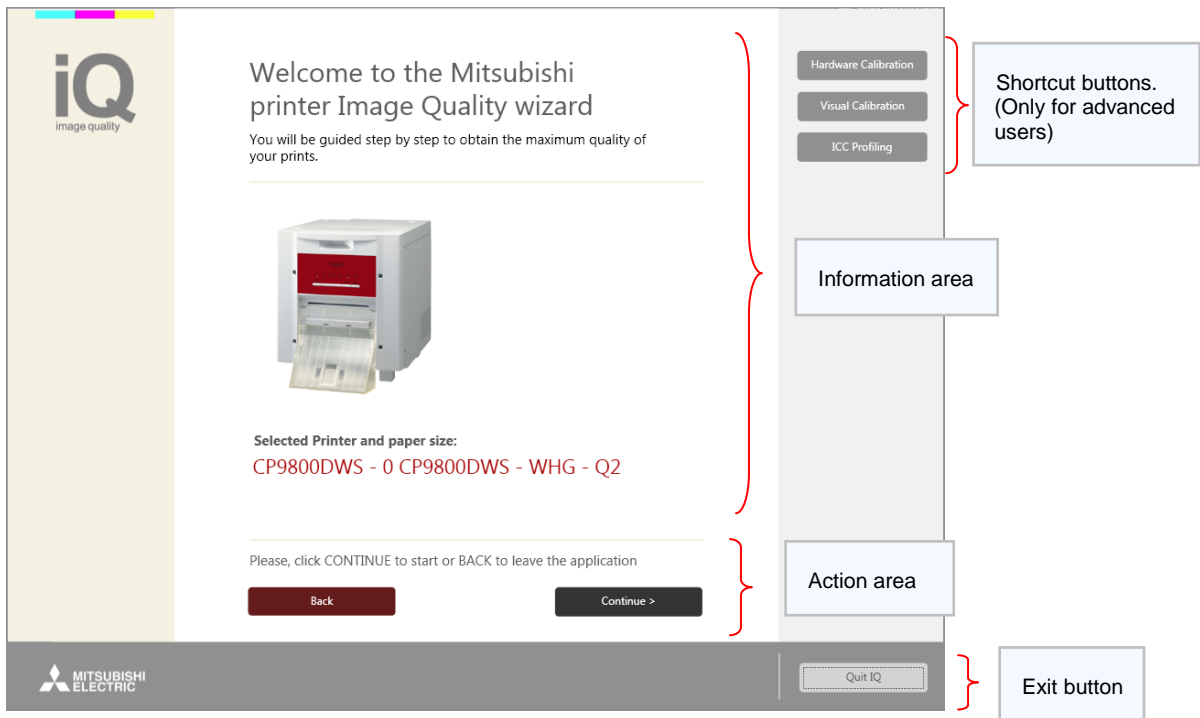
**Start wizard**

**Close**

Printer calibration will be performed with the installed media. To start the adjustment process, follow the steps on the right side of the screen.

Firstly, choose the printing quality, and secondly, press "Start wizard" button. It is very important to check that any of the printers installed is printing before continue. A message box will appear warning about it. Click "Ok" to continue.

Then, iQ wizard will be launched. It will guide you until the end of the process. The picture below shows the main elements you can find along the wizard steps.

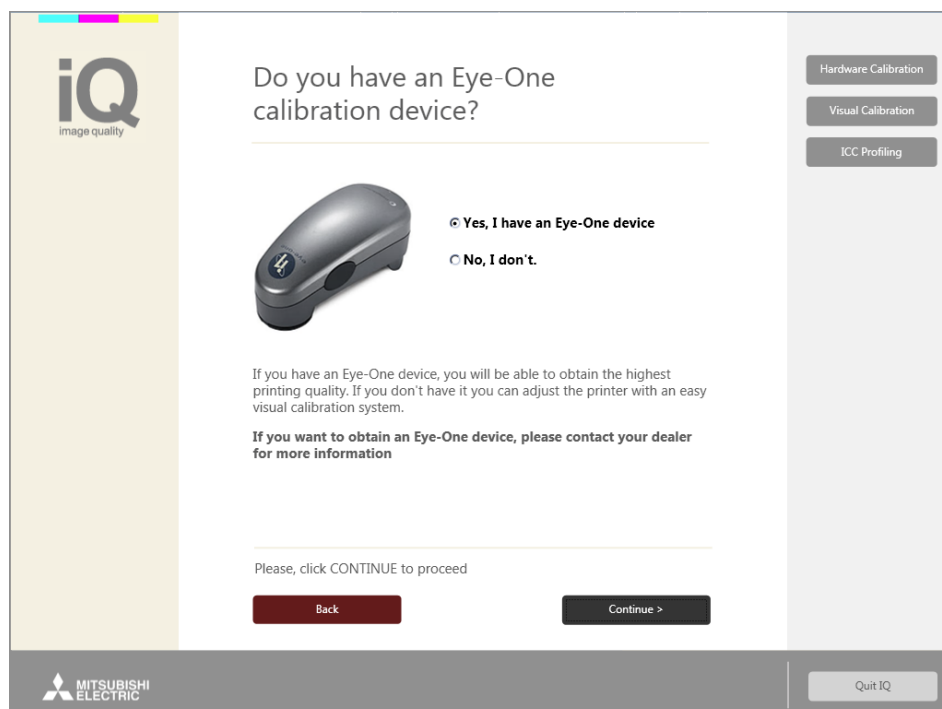


In the welcome screen you will find information about selected printer, paper and quality.

Click 'Continue' to go to the next step.

You will be asked whether you have or not, an Eye-One device. Choose the convenient option and click 'Continue'.

If you don't have an Eye-One calibration device, follow the next point 5.3.1. If you have an Eye-One device, please go to point 5.3.2.



### 1.1.21 Calibrating the printer

There are two ways to calibrate the printers. In case of having the Eye-One calibration kit please proceed with the calibration mode using Eye-One. Otherwise, proceed with visual calibration.

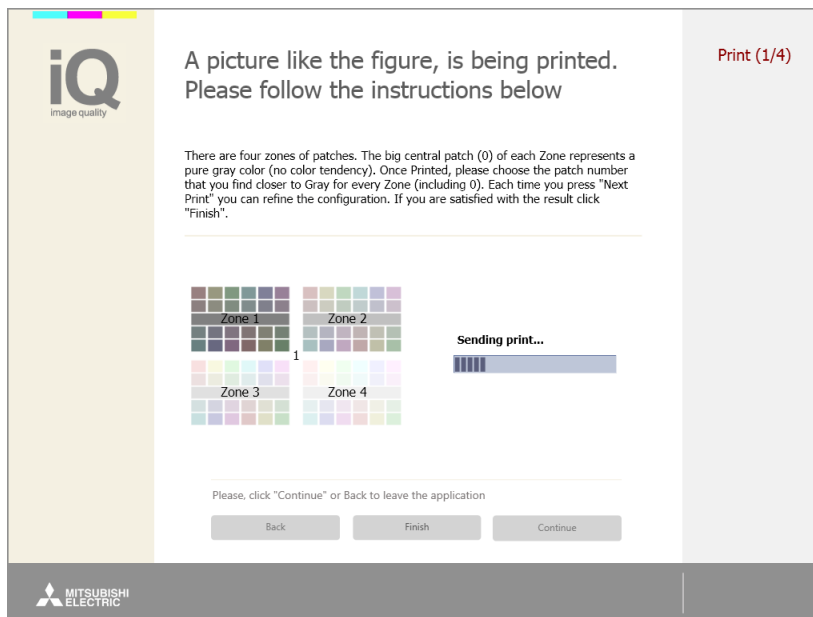
#### 1.1.21.1 Visual Calibration

##### NOTE

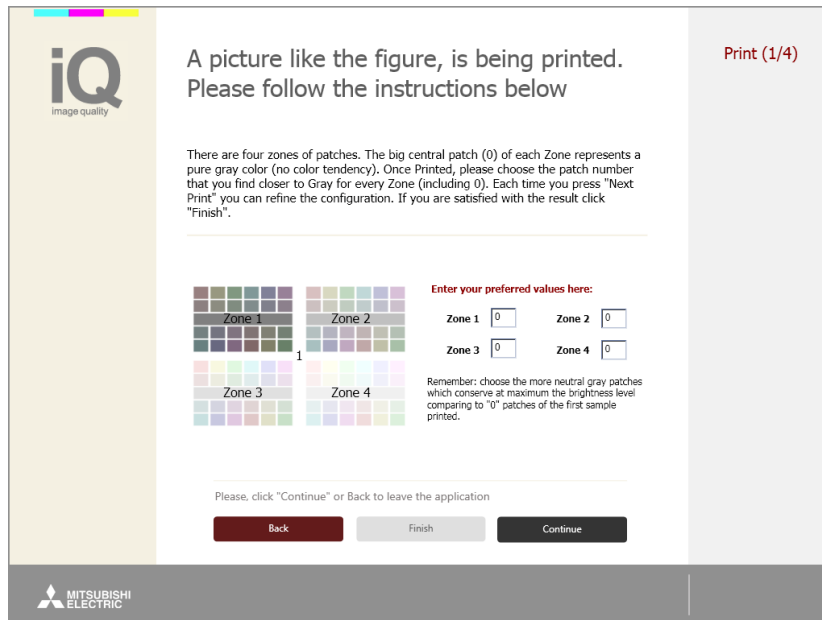
If you have an Eye-One calibration kit please go to the next chapter 5.3.1.2, which refers to the calibration using an Eye-One.

Start the calibration wizard and when you are asked whether you have or not an Eye-one device choose the option "No, I don't".

At the beginning of the wizard an image with a set of greyish patches will be printed, as shown in the figure, divided into four groups.



Once printed, select the most neutral grey box (with no colour cast) of each group (area) and enter the associated number in the corresponding boxes. In the first step is quite normal to leave the values to 0, since none of the patches are closer enough to the desired gray, but it will depend on the printer. Sometimes, leaving the values to 0 and pressing 'Continue' makes the decision easier by reducing the distance between patches.

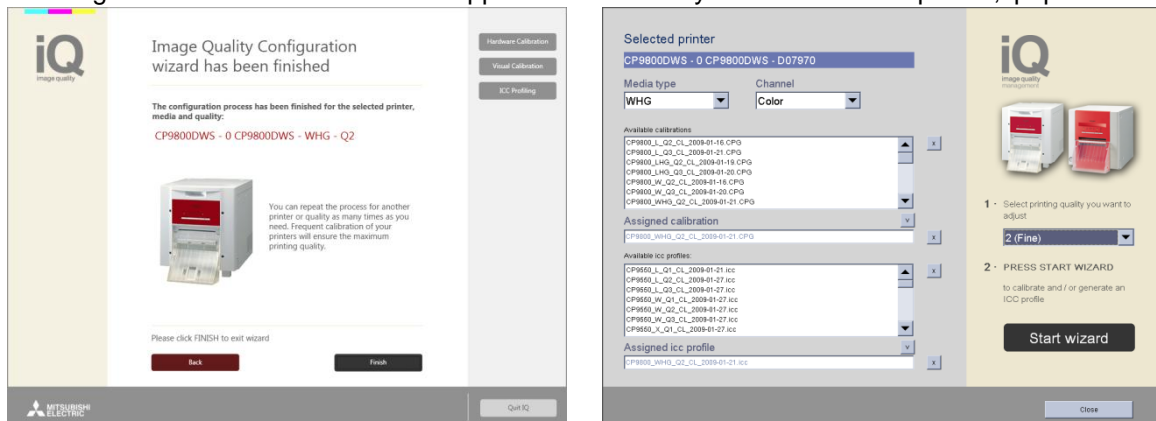


For further information follow on-screen instructions.

You can repeat the process up to four times to fine-tune the result by clicking “Continue” or, if you are satisfied with the result, you can press “Finish” at any time you want.

Then the final screen will appear. Click ‘Finish’ again to leave the iQ wizard. You will return to the previous configuration screen.

The generated calibration will be applied automatically to the selected printer, paper and

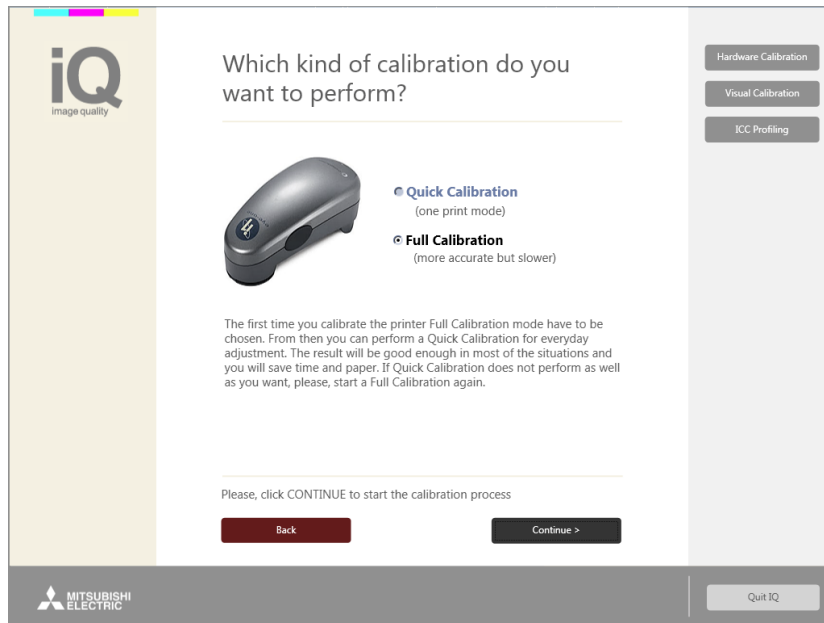


quality. You only have to press ‘Close’ to leave the iQ configuration screen or select another printing quality and start the process again.

### 1.1.21.2 Calibration with Eye-One device

With the Eye-One calibration device you will be able to obtain the best printing quality possible, even if you think that the default quality is good enough.

Start the calibration wizard and when you are asked whether you have or not and Eye-one device choose the option “Yes, I have an Eye-one device. After that, you will have to choose if you want to perform a full or a quick calibration.



Quick calibration has to be chosen only if you have performed a full calibration before. Full calibration will provide the best calibration for your printer, but it will require 5 prints in 10x15cm – 4x6 inch. Quick calibration can be done with only 1 print, and it is intended for everyday adjustment, but it is based on a previous full calibration. Quick calibration is only able to correct small deviations, but will work fine on most of the cases. When quick calibration does not perform well, it's time to proceed with a full calibration again.

In this chapter, only full calibration will be explained, because it has more steps. If you understand full calibration you will be able to perform a quick calibration as well.

Click 'Continue' to start the calibration process. You will be prompted to connect Eye-One device. Connect it and click 'Ok' to continue. Calibrator application will be launched.

#### CALIBRATOR & PRINT PROFILER ACTIVATION CODE

When Calibrator is launched for the first time you will be prompted to insert an activation code. This code can be found inside the Eye-One case in a paper labelled "Calibrator Unlock Code". Please, note that the unlock code is case sensitive.

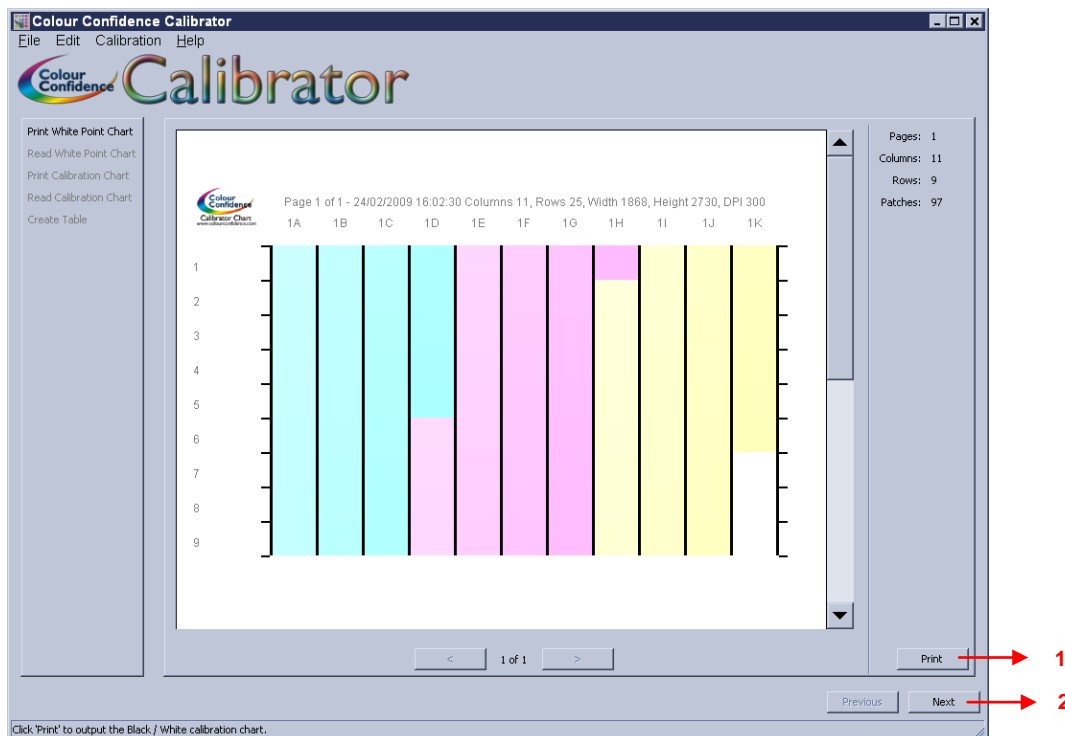
Next you will be prompted for device calibration. Follow the shown instructions and finally click 'Ok'.



You will be able then to see the following screen:

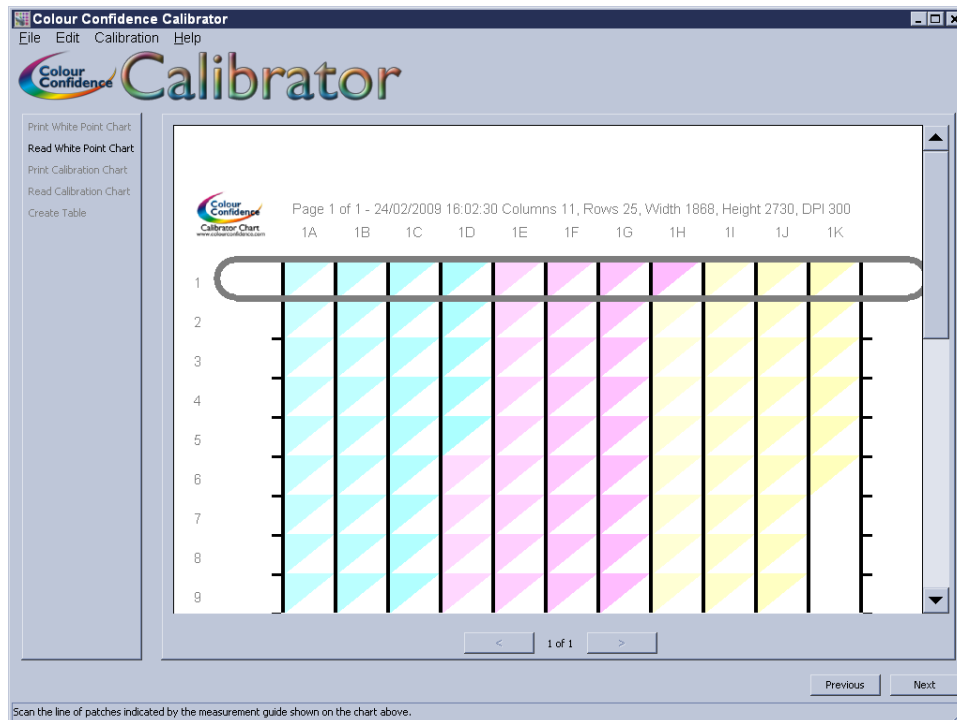
**NOTE**

The White Point Calibration is only available with the 9800 series printers.



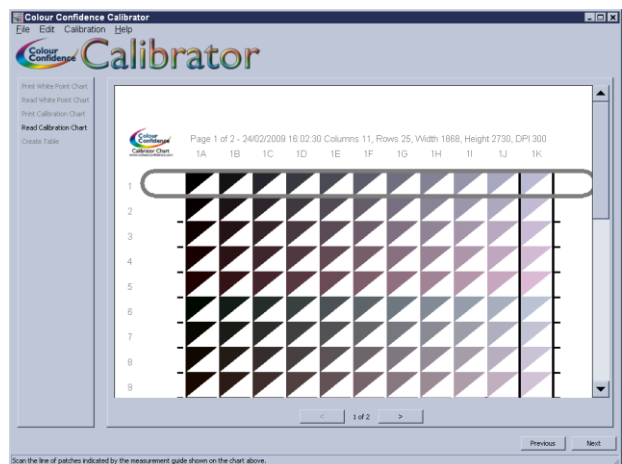
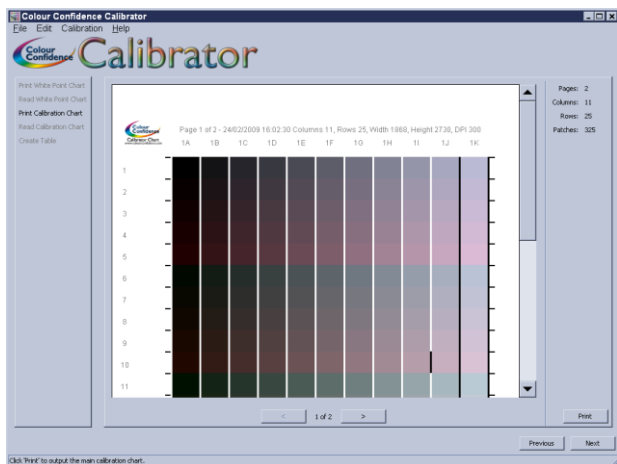
Press 'Print' button (1) to print the white point calibration card. Please, wait for the print to finish. Then press 'Next' button to continue (2).

Now you have to put the printed card on the reading support and read, row by row, as described in the point 5.2.2 *Eye-One operation*.



When finished, click 'Next' button to continue.

The following step will be greyscale calibration. You have to click 'Print' again. Some prints will be made, and then again you will have to push 'Next' button to continue.



You will have to read the printed patches as described in 5.2.2 *Eye-One operation* point. When you finish reading one print, the page will change automatically. You only have to change the card in the reading support and start again with the following print.



**NOTE**

Sometimes, depending on the printer model, it can appear the message below. Don't care as it is just an informative message.

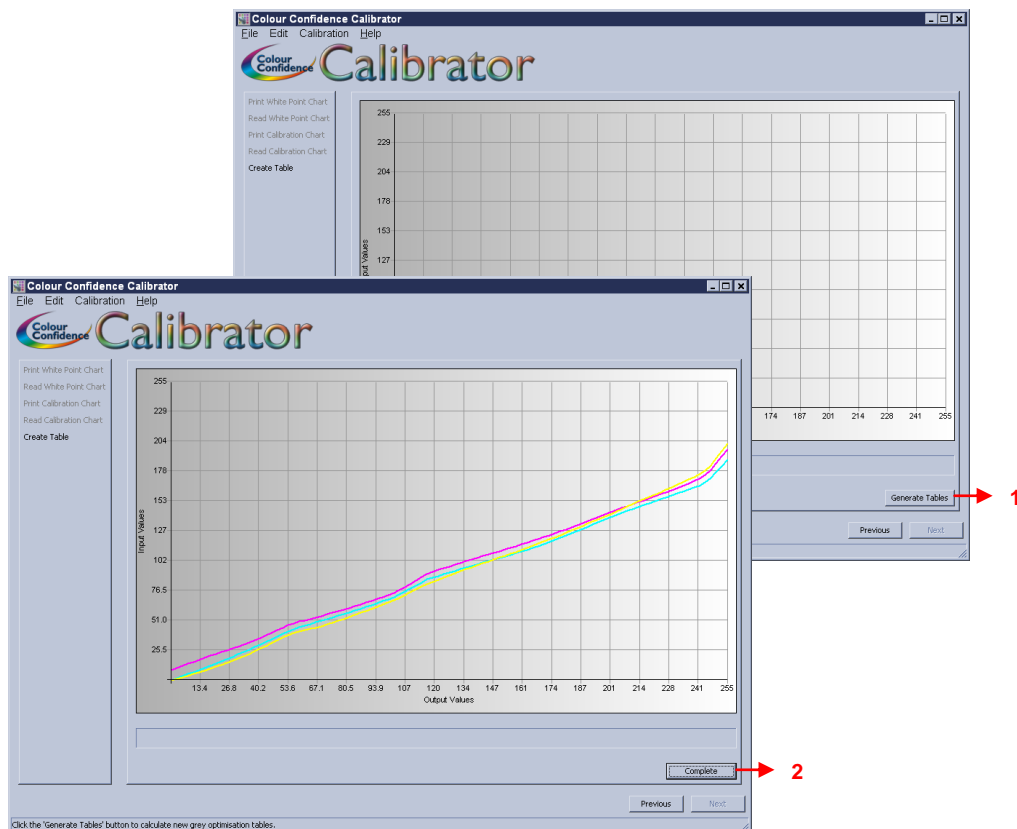
The error may be caused by the fact that the printer is not warmed enough. But this doesn't prevent performing a good calibration.

**Error finding white patch**

Error calculating the cyan white point, the patches are too light. Please either let your printer warm up and then try to re-calibrate again or continue with the default white point for this colour.

OK

Once you have finished reading all the rows of the different pages click 'Next' button to continue. This is the last screen, where you have to press the button 'Generate Tables' (1) in order to generate the calibration information. You will be able to see a graphics chart where the read information will be shown.



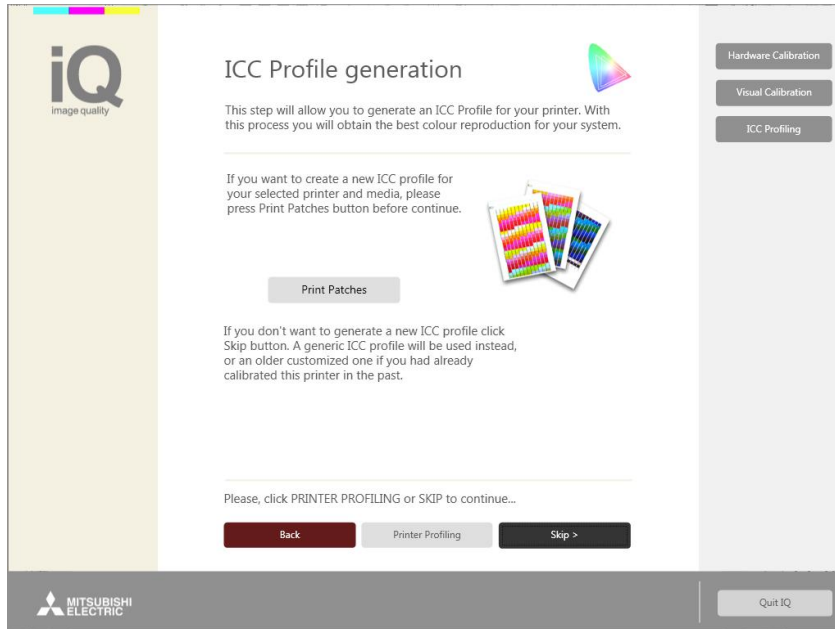
Finally press 'Complete' button (2) to exit the Calibrator application.

Now you have generated a calibration for your selected printer, paper and quality. Most users will find this calibration good enough, because can be used with the provided generic ICC profiles. The next screen will ask if you want to use the generic ICC profiles or if you want to improve even more the quality by generating a new profile for the selected printer, paper and quality settings.

### 1.1.22 Printer Profiling

You can access this screen from the 'ICC Profiling' shortcut button on the iQ screen or after calibrating a printer. It is highly recommended to perform a full printer calibration prior to profiling. Printer profiling should only be used for fine tuning and it is not intended for daily adjustment.

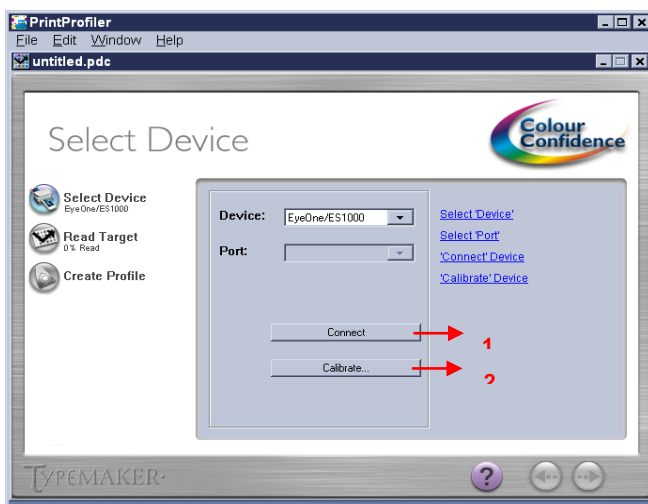
If you don't want to generate a new ICC profile, simply click 'Skip' button and the wizard will finish. Now we will explain how to generate a new ICC profile.



Firstly, click on 'Print Patches' button. Several patches for your selected printer and paper size will be printed. Wait until finished and then, click 'Printer Profiling' button to start the process. Print Profiler software will appear.

#### CALBRATOR & PRINT PROFILER ACTIVATION CODE

When Print Profiler is launched for the first time, if Calibrator has not been started before, you will be prompted to insert an activation code. This code can be found inside the Eye-One case in a paper labelled "Calibrator Unlock Code". Please, note that the unlock code is case sensitive.



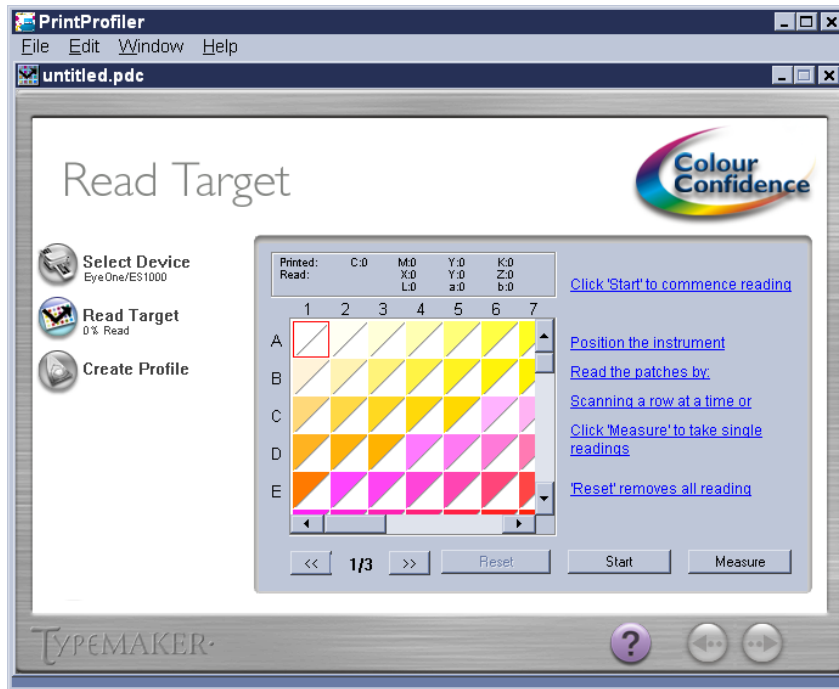
First of all, click 'Connect' button to establish the communication between the Eye-One device and the software.

Secondly click 'Calibrate' to calibrate the device. Follow the on-screen instructions and click 'Ok'.

After calibration, click the green right arrow on the bottom right of the screen to continue.



The following screen will appear.

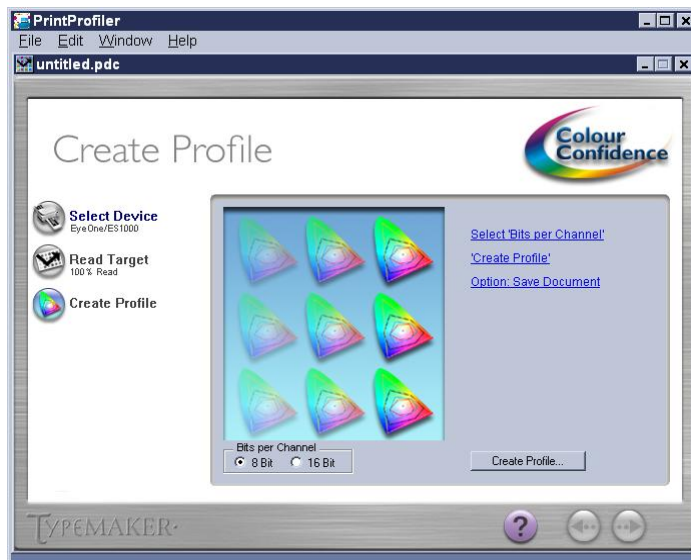


Press 'Start' button before starting the reading process.

You will have to read the printed patches as described in 5.2.2 *Eye-One operation* point. When you finish reading one print, the page will change automatically on the screen. You only have to change the card in the reading support and start again with the following print.

When finished, click again the right green arrow to continue.

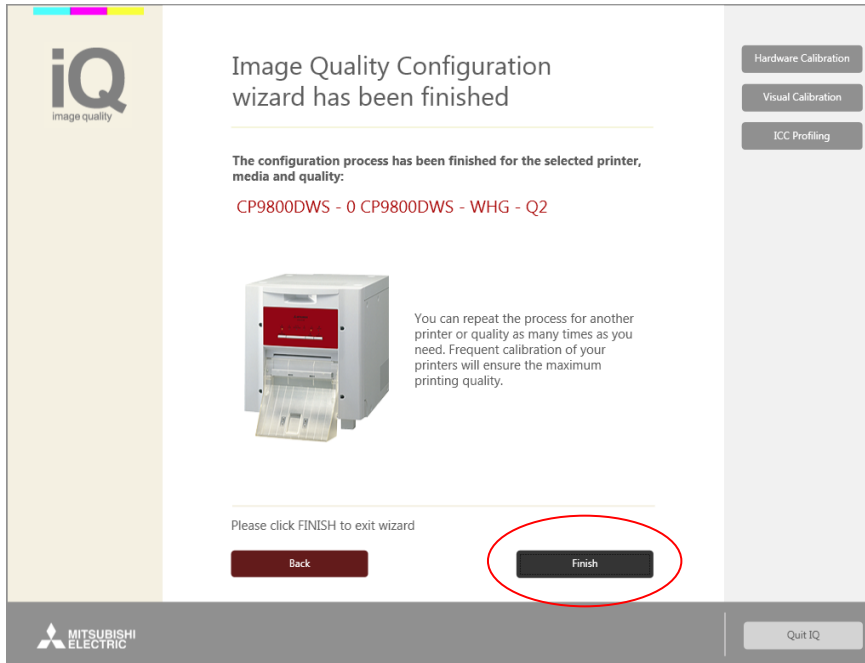
The following screen will appear:



Click 'Create Profile...' to generate the ICC profile. You will be asked about the name and folder where the file will be saved. Please, leave the default name and folder for a correct file detection.

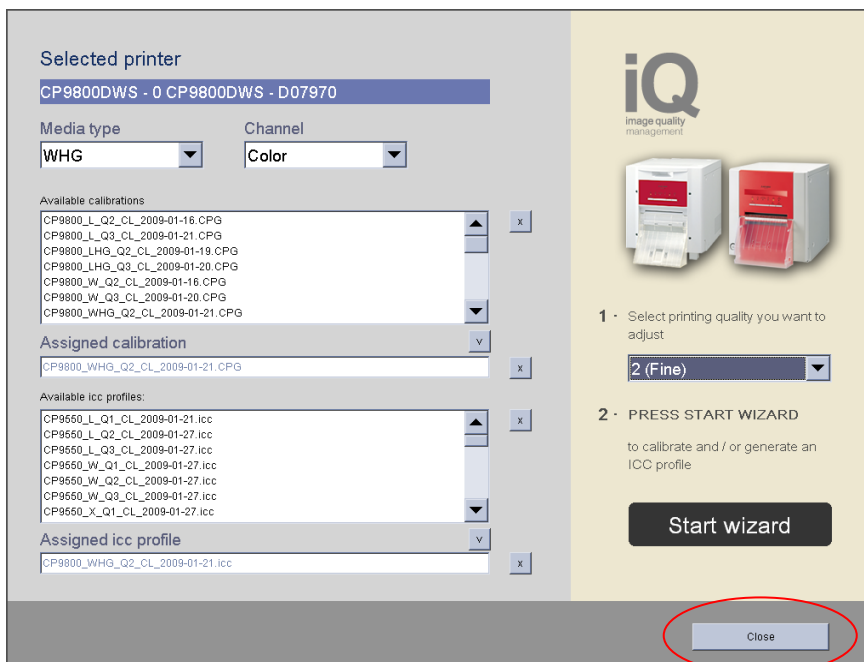
Then you have finished profiling your printer. Click the 'X' on the top right to leave Print Profiler application or Go to 'File-> Quit' menu.

After generating an ICC profile or skipping the ICC generation step you will find the Final screen. Click 'Finish' to leave the iQ management wizard and return to configuration screen.



The generated calibration and profile will be applied automatically to the selected printer, paper and quality.

You only have to press 'Close' to leave the iQ configuration screen or select another printing quality and start the wizard again.



### 1.1.23 Calibration and profiling the MPU unit

The MPU Sorter unit is composed by two printers. To perform a calibration and profiling it is necessary to do it individually to each printer composing the unit.

Please, follow the steps described in the chapter 5.3 which refers to the calibration and profiling of printers.

Remember that the colour patches are placed on the upper tray.

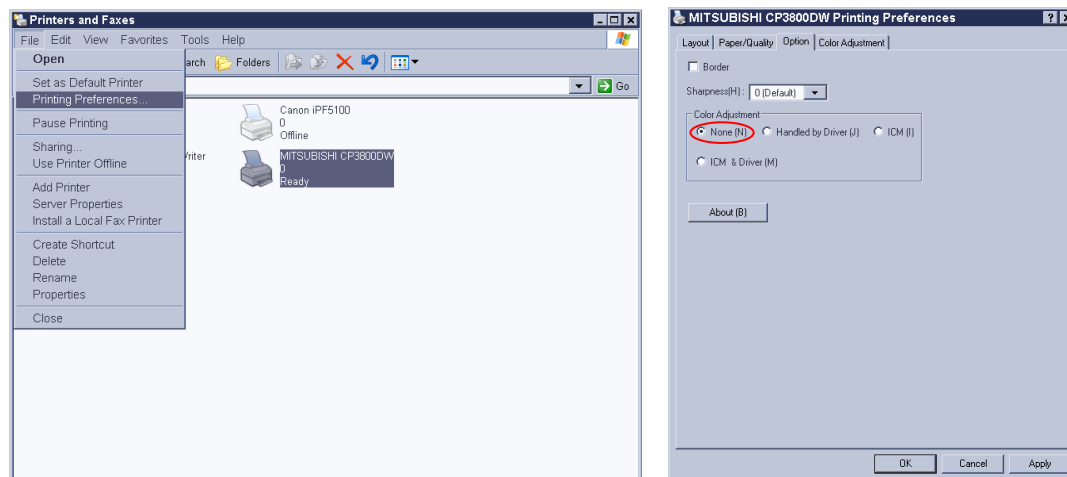
### 1.1.24 Profiling Windows driver based Printers (CP3800 series and Plotter Series)

Windows driver based printers have a special treatment when profiling. There are 2 main issues to take into account:

- 1) Windows driver ICC management has to be disabled.
- 2) Printing the adjustment patches has to be made through Print Profiler software instead of IQ Wizard 'Print Patches' button.

Profiling example for the printer CP3800:

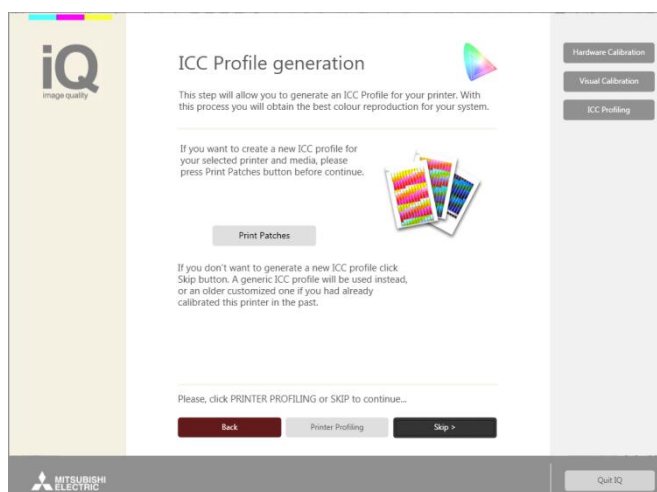
First of all, we have to disable windows driver colour managing. Go to 'Search Printers' screen and click 'Printers Control Panel' button. 'Printers and Faxes' window will appear.



Select CP3800 printer and go to 'File-Printing Preferences...'

Then select the tab 'Option' and change the 'Color Adjustment' setting to 'None (N)' as shown.

Then click Ok to save changes and leave the printing preferences menu. 'Printers and Faxes' window has to be closed too. This step has to be made only once. The setting keeps configured in Windows driver. Now we are ready to profile the printer through the IQ Wizard

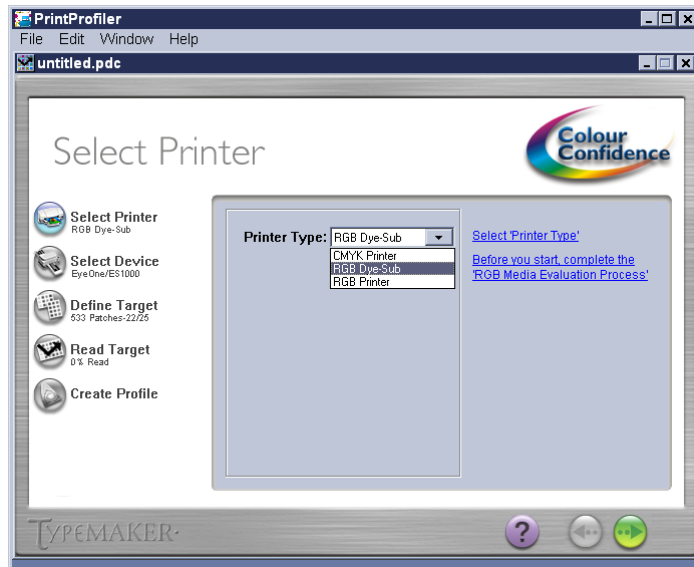


**Follow the instructions of the chapter 5.3 to start IQ Wizard selecting CP3800 printer in the printer list.**

Click 'Next' button on the IQ Wizard and the Printer Profiling screen will appear.

'Print Patches' button will be disabled, since interaction way for this printer is through the Windows

printing interface. Click 'Printer Profiling' to continue.



Print Profiler application will appear, with all options freely configurable. First of all, select the printer type.

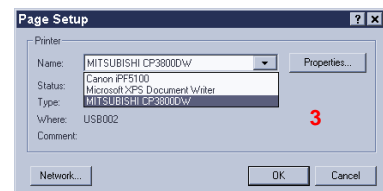
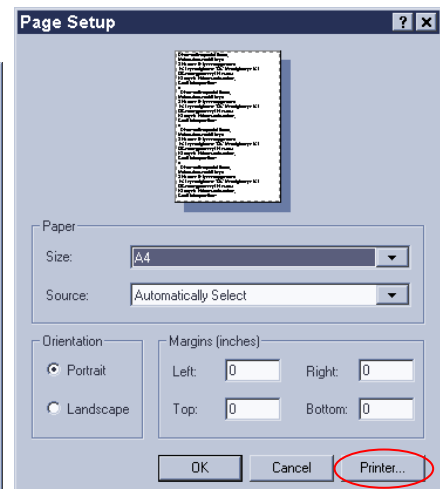
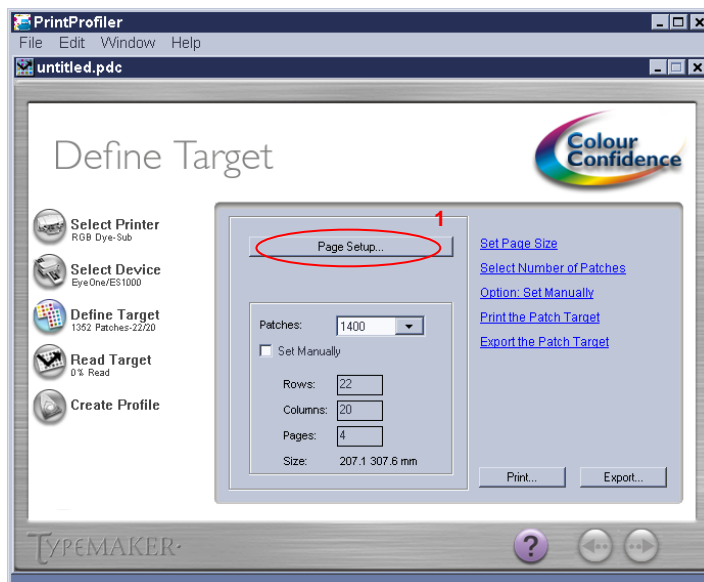
In case of CP3800 select RGB Dye sub (for Plotter series you should select RGB Printer). Click the blue links on the application in order to obtain more information.

Then click the green right arrow to continue to next step 'Select Device'.

Click 'Connect' button to establish the communication between the Eye-One device and the software and then click 'Calibrate' to calibrate the device. Follow the on-screen instructions and click 'Ok'. (See chapter 5.3.3 for detailed information).

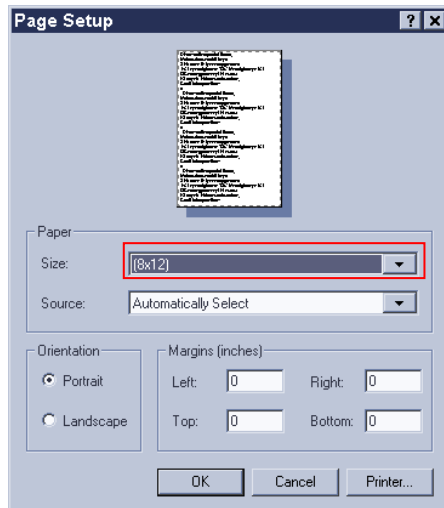
Click the green right arrow again. 'Define Target' step will appear.

Here we will be able to configure and print the patches for printer profiling.



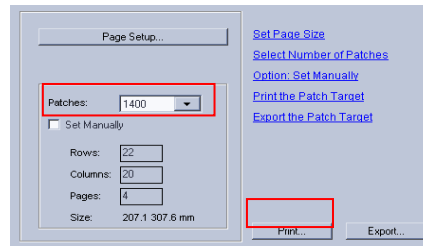
Click 'Page Setup...' to configure the printing output (1)

Then click on 'Printer...' (2) and select MITSUBISHI CP3800DW printer from the list (3). Click 'Ok' button. 'Page Setup' menu will now have information about the available printing sizes of the printer.

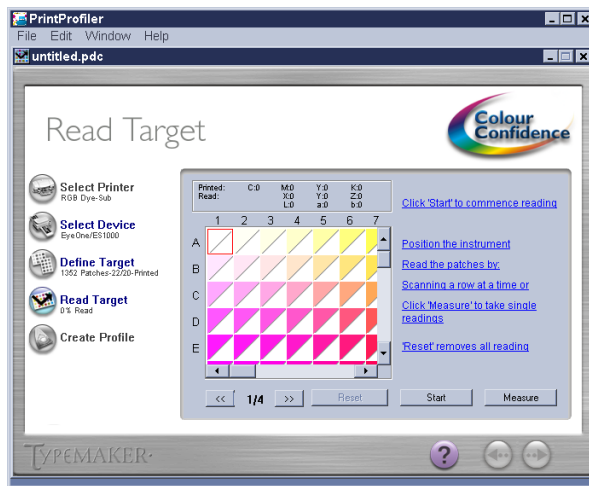


Now select the correct printing size according to installed media (8x10 or 8x12) and click 'Ok'.

The following step is selecting the number of patches that we want to print. For optimum results in dye sublimation printers, we recommend 1400 patches, but you can try a lower patch count.



Finally, press 'Print' button in order to obtain the printed patches before the next step.



Once printed, click right green arrow to continue with 'Read Target' step.

Click 'Start' before starting the reading process.

Then follow the last steps described in chapter 5.3.3 to complete the ICC profile creation process.

## Compatibility

Not all the printers are compatible with the complete iQ management flow. There are some printers that are only compatible with ICC profiling.

### IMPORTANT REMINDER: ICC PROFILING WITH CP3800 & PLOTTER SERIES

CP3800 Series and Plotter Series printers are configured by default with a windows driver ICC profile. Please, disable ICC profiles in windows driver settings before creating a new ICC profile with iQ management wizard.

Please, refer to Chapter 5.3.4 for detailed information



PRINTER MODEL	CALIBRATION	PROFILING
CP95XX Series	✓	✓
CP9600 Series	✓	✓
CP98XX Series	✓	✓
CP3020 Series	✗	✓
CP3800 Series	✗	✓ (*)
MPU	✓	✓
Plotter Series	✗	✓ (*)
CP70 / CP707 Series	✓	✓

(\*) For these printers, profiling process requires proper windows driver configuration.

For printers not compatible with calibration, only ICC profiling will be enabled on the iQ wizard application.

## Summary

There are 3 different scenarios you can apply:

### 1) Using provided generic calibration files and generic ICC profiles.

The system is configured by default with this scenario when iQ mode is activated. If you do not perform any additional adjustment you will obtain a very good printing quality.

### 2) Calibrating the printer (visual procedure or hardware attended procedure) and using the provided generic ICC profiles.

This option will provide you better than default results. Calibrating the printers will result in better colour consistency. It is a quick process, so you will not spend a lot of time, and you will improve a lot your printing quality.

### 3) Calibrating the printer and creating new ICC profiles.

This is the option that will give you the best results, but requires more time for adjusting a printer.

#### MITSUBISHI RECOMMENDS:

Acquiring an Eye-One device and performing a full calibration the first time (printer profiling optionally) and, periodically, re-adjust the printers with a quick calibration.

Please, read carefully chapter 5.3 to obtain detailed information and read the table below as well.

## 1.1.25 Printing quality level optimisation table

Printing Quality optimisation level	When...	Calibration	Profiling
<b>Minimum</b>	...you consider the printing quality with the default ICC is good enough.	-	-
<b>Recommended</b>	...plugging in a new printer.	<b>Full</b>	-
	...using a new format.	<b>Full</b>	-
	...changing the quality.	<b>Full</b>	-
	...having a printer with no calibration.	<b>Full</b>	-
	...changing the ink cassette.	<b>Quick</b>	-
<b>Optimum</b>	...plugging in a new printer.	<b>Full</b>	<b>Yes</b>
	...using a new format.	<b>Full</b>	<b>Yes</b>
	...changing the quality.	<b>Full</b>	<b>Yes</b>
	...having a printer with no calibration.	<b>Full</b>	<b>Yes</b>
	...starting the workday.	<b>Quick</b>	-

## MPU Sorter

### Introduction

The mass production unit MPU Sorter has been designed to achieve a high performance level and a higher easiness working due to its backprinting and sorting functions.

### 1.1.26 Requirements and compatibility

To be able to use the MPU Sorter it's mandatory to have an IT5000 with a Flexilab ClickPro software version 2.5.0 or higher.

In order to achieve the best results, use an IT5000 HW4 version, or higher, and plug in the MPU Sorter directly with the supplied USB connector. It's advised not to use a USB extender.

The MPU Sorter unit is compatible with Flexilab systems using PT6000, PT7000 or MT1E machines connected in Order Terminal mode to an IT5000 working with ClickPro software version 2.5.0 or higher.

## Installation

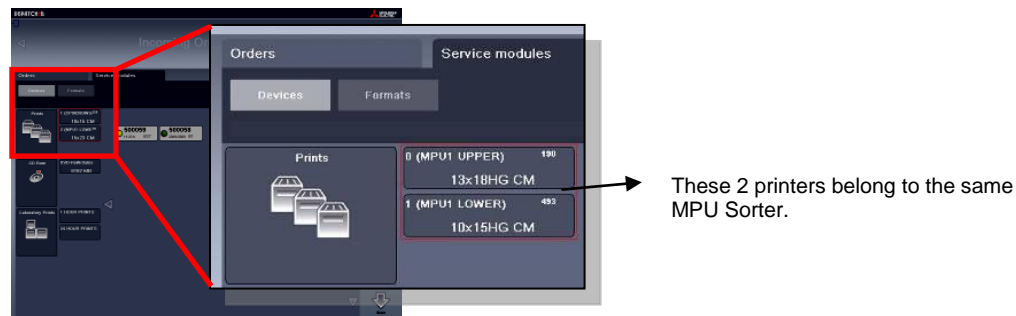
Before connecting the unit to the IT5000, please check that you have a Flexilab Click Pro 2.5.0 version or higher and shut down all applications using the Monitor Manager.

Once the MPU Sorter is plugged in, please read thoroughly the on-screen instructions in order to install correctly the MPU Sorter unit.

Once the installation is accomplished, reboot the system in order to let the changes be applied.

To check the installation has been performed correctly, please verify that the MPU Sorter is shown now in the DispatcherAdmin screen. It must be shown as a red frame framing the contained printers.

Both printers are differentiated as the UPPER printer and the LOWER printer.



#### mitsubishi recommends:

It's necessary to calibrate the printers contained in the MPU Sorter in order to achieve an optimum result regarding to printing quality. Please refer to the previous chapter to get more information about printer calibration.

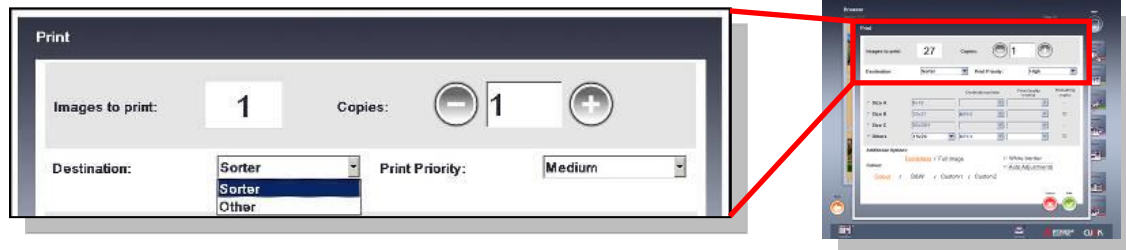
## Working modes

A MPU Sorter unit must be always attached to an IT5000. The MPU Sorter is able to print local Click5000 orders (working as a single printer) and other ones coming from order terminals (working then as a central high production machine).

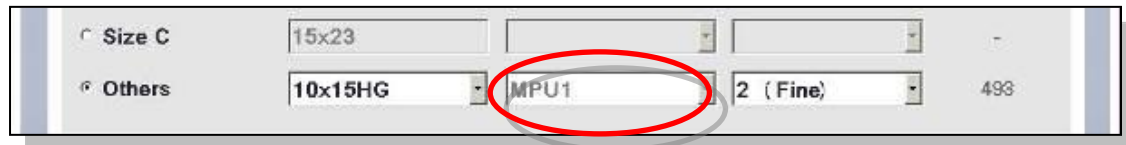
### 1.1.27 Working as a single printer

This working mode is only referred to the orders that are generated locally and printed with the MPU Sorter.

To generate and order for the MPU Sorter, choose the option labelled as “Sorter” in the field “Destination” of the Print page in CLICK.



Choose the available paper size and quality in MPU Sorter. Then choose the destination MPU. In case of having more the one, both will be listed. Otherwise, the MPU Sorter unit will be the default destination.



The MPU will only print orders sent with the option “Sorter” or, in case of having a printer inside the MPU Sorter with a specific format, it will also print orders with the options “Multi printers” or “Single printer”.

### 1.1.28 Working as a central high production unit

To be able to print with the MPU Sorter using an Order Terminal it is necessary to fulfil the requirement that at least one printer contained in the MPU Sorter has to be the only printer in the system with the desired format.

In the case where the MPU doesn't own exclusively a format, it's necessary to export the order to CLICK so as to resend it to the MPU Sorter.

Please refer to the chapter 4.3.5 from the Click application manual to know how to export an order.

### 1.1.29 Compatible formats

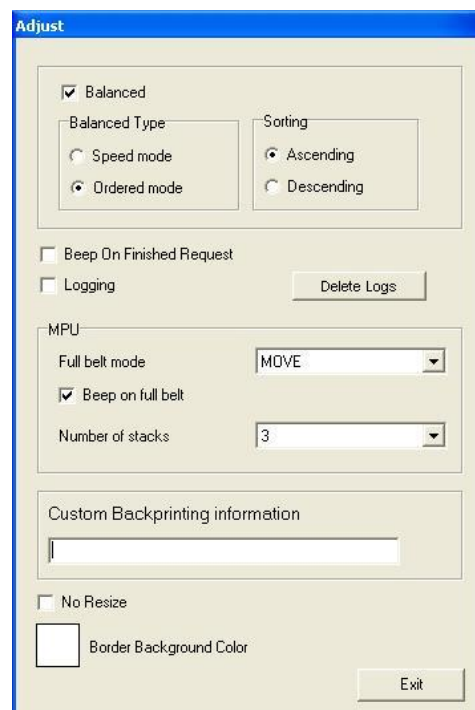
The MPU unit is compatible with most of the formats supported by the 98xx series printers except those ones called composition, or multi-cut, formats. Please refer to the formats table from chapter 1.2.3 for further information about available formats.

#### NOTE

Composition or multi-cut formats are no available printing with a MPU Sorter.

## Configuration

The configuration of the MPU Sorter is placed in general settings of PrintServer (see chapter 3). The



configuration is applied to every MPU Sorter attached to the system.

The fields configurable regarding of the MPU Sorter are the following.

### 1.1.30 Balanced

This setting is ignored by PrintServer when printing with an MPU Sorter.

### 1.1.31 Sorting

This option determines if the MPU Sorter starts printing the first picture or the last one.

- Ascending: The MPU Sorter will start printing the first picture.
- Descending: The MPU Sorter will start printing the last picture.

### 1.1.32 Full belt mode

The possible values:

- STOP: MPU Sorter will stop printing until the stack is removed from the belt by the operator (only the stack on the sensor it's needed to be removed).
- MOVE: MPU Sorter will move the belt when it gets full. The first stack will fall in the belt tray and the MPU Sorter will keep printing.

### 1.1.33 Beep on full belt

When this option is checked, the IT5000 will beep when the belt gets full.

### 1.1.34 Number of stacks

This option is used to choose how many stacks are placed on the belt. It's possible to choose between 2 or 3 stacks. Depending on this number the capacity of the belt will vary between 110 (2 stacks) or 165 (3 stacks) photos.

### 1.1.35 Custom Backprinting information

It allows to set a custom short information to be shown in the backprint, like the shopname, per instance. Maximum length is 19 characters for this field.

### 1.1.36 Recommended configuration

To achieve an optimum performance, Mitsubishi recommends using the following configuration of PrintServer:

- Full belt mode: MOVE if the MPU Sorter is unattended, otherwise STOP.
- Beep on full belt: Activated
- Number of stacks: 2

#### MITSUBISHI RECOMMENDS:

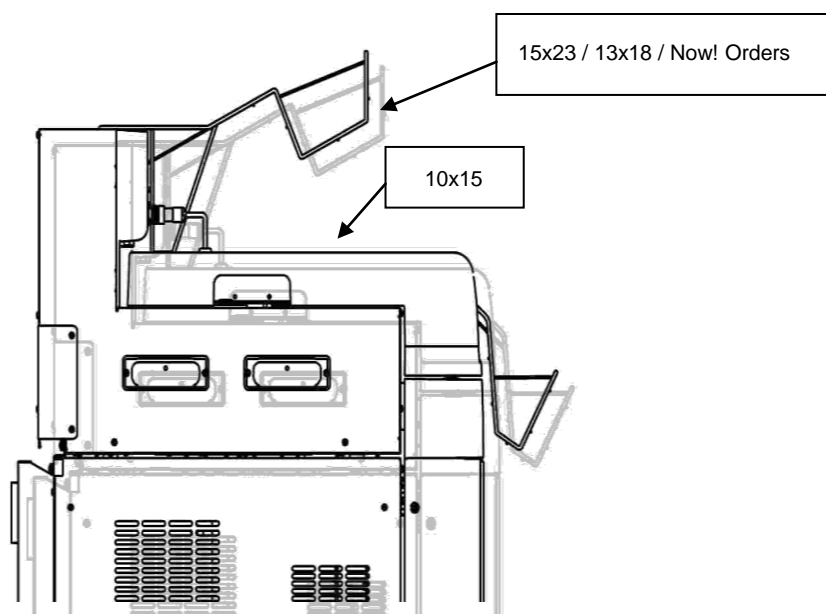
Do not use used paper or ink from another printer. The MPU Sorter unit performs better if both printers have the same amount of remaining copies. Please change also paper roll when ink cassette is exhausted.

## **Considerations**

Printed orders are sent to the belt or to the upper tray depending on the paper size and the priority of the order. The orders with the format L – 10x15 are placed on the belt. The orders with X – 13x18 and W – 15x23 are placed on the upper tray. Moreover, the orders with “Now!” priority appear on the upper tray regardless of the format, as well as the colour patches while calibrating printers.

The number of stacks specified it's only considered in the orders placed on the belt. The capacity of the belt is about 110 photos (2 stacks) or 165 photos (3 stacks).

When changing from one paper size to another one, check the position of the paper selector switch is the correct one for the new paper size.



**References:**

*Mitsubishi Electric Kiosk&Click software contains portions of imaging code based on proprietary technology copyrighted by Pegasus Imaging Corporation, Tampa, FL. ALL RIGHTS RESERVED.*

# **APPENDIX**

## **CD Burning**

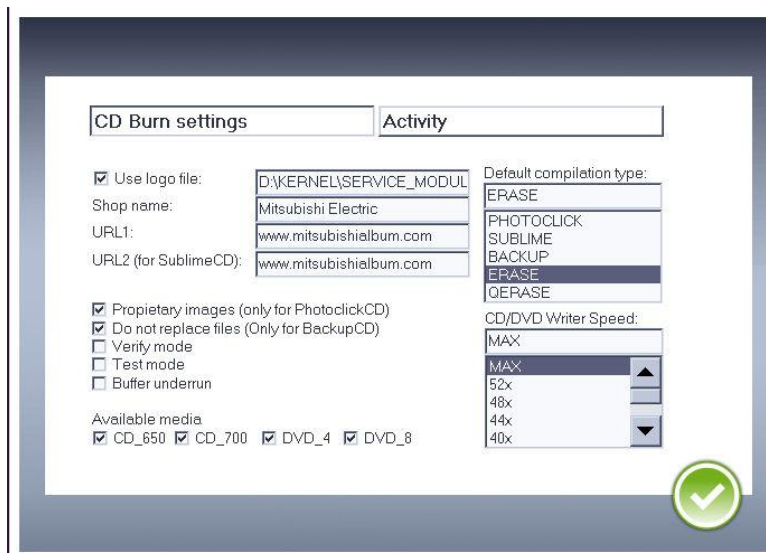


## CONTENTS

<b>1</b>	<b>CD BURNING .....</b>	<b>3</b>
1.1	CD BURNING SETTINGS .....	3
<b>2</b>	<b>ACTIVITY .....</b>	<b>4</b>

# 1 CD Burning

CD Burning is a Service Module. It is for burning images onto a CD/DVD. This CD/DVD can be executed on a computer to show the burned images, with no need to install any application.



## 1.1 CD Burning settings

All the configurable parameters of this Service Module can be viewed by pushing this button.

- **Shop name:** This shop name will be shown on the application recorded on the CD/DVD.
- **URL1:** Internet address. This address will be shown on the application recorded on the CD/DVD.
- **URL2:** Internet address. This address will be shown on the application recorded on the CD/DVD. This second address is only available for SUBLIME (see SUBLIME).
- **Proprietary images:** proprietary image format. When this option is activated the images recorded on a CD/DVD can only be viewed on DPS systems.
- **Do not replace files:** when this option is activated, all the files saved in the destination file beforehand will be protected. If an attempt is made to save an existing file, the one already saved has priority, while if this option is not activated the new file will overwrite the previously saved file.
- **Verify mode:** saves onto the CD/DVD with verification. While saving, it checks to see that it is being done correctly. This increases the CD/DVD saving time.
- **Buffer underrun:** Saving takes place with mistake proofing. Leaving this option activated is advisable.
- **Default compilation type:** defines what type of application will burn onto the CD/DVD.
  - SUBLIMECD: an application allowing saved images to be viewed and printed on a Mitsubishi printer, the images to be edited and the images to be uploaded to Mitsubishi Album.

- BACKUP: burning of images onto a CD with no application to view them.
- **CD/DVD Writer Speed:** the speed at which burning takes place can be selected. MAX defines the maximum speed regardless of the burner model. If errors have taken place during several burning sessions, we advise selecting 8x as the burning speed.

## 2 Activity

Shows the current state of the service module.

# **APPENDIX**

## **DPSLab**

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## CONTENTS

<b>1</b>	<b>INTRODUCTION .....</b>	<b>3</b>
1.1	SYSTEM OVERVIEW .....	4
1.1.1	Processing .....	5
1.1.2	Sending jobs .....	6
<b>2</b>	<b>INSTALLATION .....</b>	<b>7</b>
2.1	SOFTWARE INSTALLATION .....	7
2.2	UNINSTALLATION PROCESS.....	8
<b>3</b>	<b>CONFIGURATION .....</b>	<b>9</b>
3.1	ACCESS TO THE CONFIGURATION SCREEN.....	10
3.2	THE CONFIGURATION SCREEN.....	11
3.3	INTERNATIONALIZATION .....	21
3.4	IMPORT / EXPORT .....	23
<b>4</b>	<b>INSTALLATION AND CONFIGURATION OF THE MIT_GEN_200 PROTOCOL.....</b>	<b>26</b>
4.1	INTRODUCTION TO THE PROTOCOL .....	26
4.2	SPECIFIC CHARACTERISTICS OF THE PROTOCOL.....	26
4.3	SOFTWARE INSTALLATION .....	26
4.4	CONFIGURATION .....	26
<b>5</b>	<b>INSTALLATION AND CONFIGURATION OF THE MIT_PBM_100 SERVICE.</b>	<b>31</b>
5.1	INTRODUCTION TO THE SERVICE MIT_PBM_100 AND PROTOCOL MIT_PBM_100 .....	31
5.2	SPECIFIC CHARACTERISTICS OF SERVICE MIT_PBM_100 .....	31
5.3	SPECIFIC CHARACTERISTICS OF THE PROTOCOL MIT_PBM_100.....	31
5.4	SOFTWARE INSTALLATION .....	31
5.5	CONFIGURATION .....	32
<b>6</b>	<b>PRACTICAL CASES .....</b>	<b>35</b>
	Examples of configuration and use of the DPSLab module.....	35

## 1 Introduction

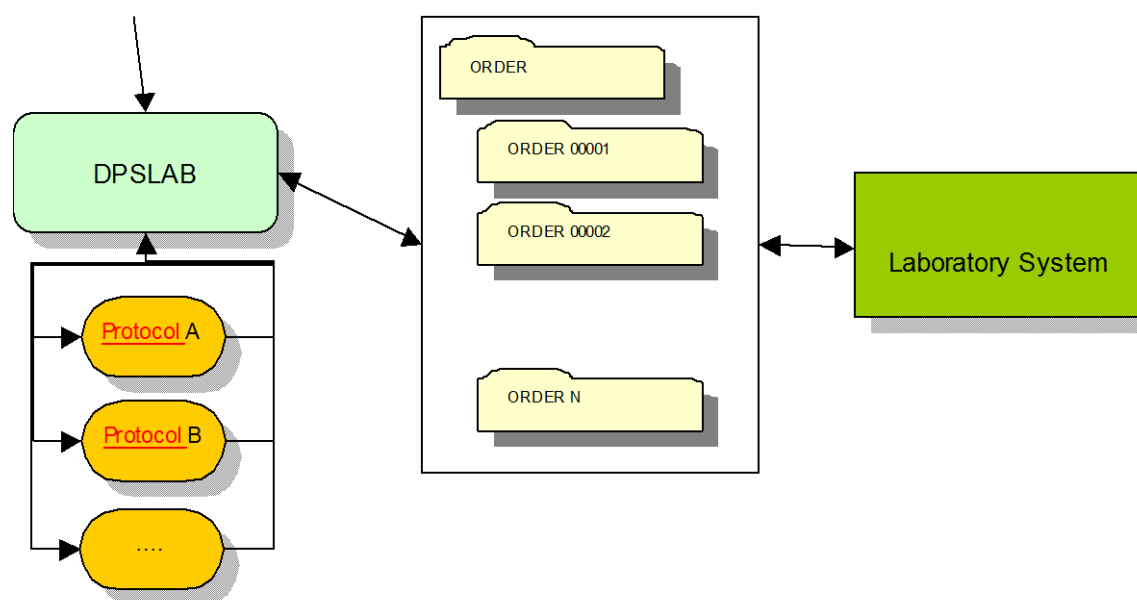
DPSLab is one of the applications in the Flexilab Service Module interface (the new comprehensive system for processing orders). It is responsible for processing and redirecting print orders which are not for direct printing (INSTANT PRINT) in the MITSUBISHI sublimation printers.

Examples of application: printing on plotters or minilabs installed in the actual establishment (sending by LAN) or even printing in remote laboratories using the internet-based FTP protocol.

Current versión allows to create up to 8 additional services, that can have different settings and will be identified as LABS1, LABS2 ... up to LABS8.

## 1.1 System overview

The DPSLAB service module is comprised of the following elements:



Components	Description
Orders, Order 0001, Order 0002, Order N	Each of the orders sent to laboratories  They can be based in a traditional system, by using files and folders, or using special communication protocols (Webservices, TCP/IP...) as well.
DPSLab	The application discussed in this document.
Protocols, Protocol A, Protocol B...	The protocols can adapt to the specific way of work of each laboratory.
Laboratory System	Destination laboratory o machine, receiving the orders sent from a system with DPSLab. This may also be a DPSClick machine.

When a service reach the DPSLAB module, the latter processes the images first, prepares the necessary data structure and sends them, images and data, to their destination. Depending on the configuration of the service, THE WHOLE process will begin instantly or when the scheduled time slot is reached. The system can even be configured to accumulate orders and thus at the end of the day they can all be burnt manually to CD, and then be sent manually (by ordinary transport) to a remote laboratory.

The execution of jobs is divided into 2 different parts: processing and sending (transfer). Everyone of them is executed separately. Every job arriving will go through this workflow: processing and transfer. Once a queued job is processed, it's queued again waiting for the transfer step.

DPSLab can manage the execution of several jobs at the same time as follows:

It can manage one process and send several jobs simultaneously. But it can only process one order at the same time.

It can manage sending several jobs when the transfer method or protocol is different among them. It can send simultaneously, for example, one order using LAN, other using FTP and another using the SELF method.

The processing and transfer steps are described in the next sections.

### 1.1.1 Processing

In this step, the different files or resources required by the destination system are being prepared. The following could be some of these tasks:

Picture treatment (common to any protocol)

Order file generation

Folder structure.

Packing

Etc.

Depending on the configuration and the characteristics of the service protocol, the DPSLAB module will process the job images before sending them.

This is of the utmost importance, for example, when sending images via the Internet, so the size must be reduced to make for easier sending.

In this case we should work in "MaxSizeFactor" mode (see the 'Image Processing' section the "General" tab of the DPSLAB Services Configuration).

More specifically, The OPTSIZEDISK parameter will determine what the maximum size for an image file on the hard drive is. If this size is surpassed the image file will be opened, its size changed to the one that corresponds to the print size requested by the client, and it will be compressed in ".JPG" format.



If you do not wish to change the image size (in local area network connections, where file size may be very high, without reducing the efficiency of sending), and you wish the target machine to do this, OPTSIZEDISK will be increased to a sufficiently high value to prevent processing. For example, 100000 (in bytes, 100Mbyte).

Another way of working is to adapt the image to the exact dimensions of the print size of the target machine. It may be a requirement of this machine, and it saves processing time on it, but it obliges the machine running the DPSLab module to perform more calculations and will therefore reduce its performance. It is recommended only in local area network (not Internet-based) connections where large file sizes are permitted, although it is also possible for jobs sent to remote laboratories with reasonable print sizes and forcing a JPG format compression.

In this case there are two options available, "Cut" and "Fit Sides", explained in greater detail at a later point in this annex.

The PAUSE button in Dispatcher is effective in the process phase.

### 1.1.2 Sending jobs

Jobs are sent chronologically as they arrive, regardless of the service they are associated.

The orders accepted by the DPSLab module go from the "PENDING" to "EXECUTING" or "BATCH EXECUTING" status as long as the image processing and sending lasts. Only when the DPSLab module reports that these jobs have been completed successfully will these orders pass to the "DONE" status.

If during the sending of a job there is any communication error with the remote mechanism or laboratory, or any abnormal situation arises interrupting the process, the order will be left in the internal status "FAILED\_TO\_SEND" (in DPSLab environments) and the pre-established time will be allowed to elapse before a retry. During this waiting time DPSLab will process the following order, if there is one. In some cases, depending on the protocol being used, the system will be able to try to send another order of the same service even when others are in the 'FAILED TO SEND' status. Other protocols won't do that.

Once the waiting time is up, since work orders are processed cyclically, in the next round the job will be attempted again beginning with the first file that was left pending from the previous attempt. This is true for the LAN and FTP transfer methods. In the SELF method depends on the protocol being used.

Throughout this process, the order is reflected in DISPATCHER in the "EXECUTING" or "BATCH EXECUTING" status.

If this error persists, a series of attempts will be made (according to configuration) until the job is abandoned as "FAILED", and the following pending job will be processed. DPSLab jobs in the "FAILED" status become services with the "error" status in DISPATCHER.

The services in "error" status in DISPATCHER must be relaunched manually by the operator, and the DPSLab module will treat them as if it were processing them for the first time, beginning from zero with each one of them.

If during the sending of a job the machine is powered off, the job will remain in the "EXECUTING" or the "BATCH EXECUTING" status in DISPATCHER, and when the machine is powered up again, the DPSLab module will check the files sent until that moment and will continue with the one after the one last one sent before the power-off, following the same procedure as for retries through communication failures, explained above. This is true for the FTP and LAN transfer methods. It depends on the protocol when the transfer method is SELF

The PAUSE button in Dispatcher is effective in the send phase in some protocols, for LAN and FTP is not possible, to eliminate an order from the print queue of the DPSLab module, the module must be switched off and the order removed from DISPATCHER when it appears in error status after a few seconds.

## 2 Installation

### 2.1 Software installation

DPSLAB-X.X.X-setup.exe is the DPSLab installer. Double clicking on it starts the installation. The following screens are typical of an automatic installation system and are very intuitive:

- Welcome and introduction screen
- Selection screen for the modules to be installed. In this case there is only the DPSLab application.
- Request for the installation directory. The installer proposes the preconfigured directories, if these have already been created. (More information on this in the Flexilab manuals)
- After the directory has been selected, the installation process begins after clicking on "install" and a screen shows the progress of the installation.
- 
- Some versions could not be compatible with previous versions. The installation application could ask for confirmation before delete any previous settings of the DPSLAB service module.

Follow the instructions that appear on the screen. After the entire installation process has ended, a concluding screen will appear. Click on "close" to complete the installation.

#### NOTE

At least one protocol must be installed for DPSLAB to be configured correctly.

At least one DPSLAB service must be configured.

## 2.2 Uninstallation process

During installation, the file '**Uninstall\_DPSLAB-X.X.X.exe**' is generated in the installation directory. Clicking twice on it begins the DPSLab uninstallation process. This is followed by a series of very intuitive screens which act as a guide during the process:

1. The initial screen proposes uninstalling the programme from the folder where it was installed. Click on 'Uninstall' to begin the process.
2. Details of the process are shown while it is taking place.
3. Click on "close" on the last screen to complete the uninstallation process.

### 3 Configuration

This section explains the application's configuration settings.

DPSLAB enables orders for printing photos and/or other services to be sent to third party laboratories. The operational mode of DPSLab is organised by services. These consist of a combination of the protocol configuration for sending orders, the method for sending orders to electronic systems in the laboratory, the description of the Service itself and how it operates.

For example:

Service	Protocol	Sending method	Description
LABS1	MIT_GEN_200	LAN	Sending through local network to a generic system
MIT_PBM_100	MIT_PBM_100	SELF	Sending through local network to a MITSUBISHI MAP
LABS2	MIT_GEN_200	FTP	Sending through local network to another generic system

The steps to be followed for configuring DPSLab services are

4. Install the protocols to use (see INSTALLATION AND CONFIGURATION OF THE PROTOCOL)
5. Create the service to be configured and select the protocol to use in this service. At this point, the entire selected protocol configuration has been copied to the configuration of the service, including translations. There will be no more links between the protocol configuration and the service configuration for the associated protocol. The part of the service configuration relating to the associated protocol will be called the 'Service Protocol Configuration' from now on.
- 6.
7. The "PROTOCOLS" tab has been hidden to avoid wrong configurations. Each protocol will be configured with the most general possibilities and each configuration will be personalised in each service created.
8. It is now possible to duplicate a service or department already configured when creating a new one. See further below for more details.
- 9.
10. Configure the other parts of the service – the sending method and its characteristics.
11. Save the configuration.

In some cases, it can exist a DPSLAB service installer (like MIT\_PBM\_100). This application installs and automatically configures the service and protocol. In such cases the DPSLAB service name could be different than LABS<N>.

DPSLAB supports 2 kind of services: free services and licensed ones. The free services, once configured, and the system is started, they are published to the Dispatcher normally. A service requiring license launches the licensing system when required. This process is repeated everytime the supervisor tries to enter the settings area., just before asking for the password to enter.

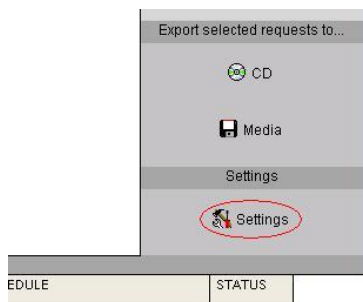
The only free services today are the ones related to the MIT\_PBM\_100 protocol.

The settings area is totally protected only with the passwords method. The supervisor must change the default password, that is empty by default.

### 3.1 Access to the configuration screen.

There are two ways of accessing the configuration screen:

- From the DPSLAB main screen: the Settings button.



- From the context menu of the DPSLAB application:
  - The DPSLab icon appears on the operations taskbar. Place the mouse pointer on it and right click to read the context menu below:



- Clicking on "settings" accesses the DPSLAB configuration screen. A password is required for access to the configuration screen. This is initially empty and is set using the "new" button. Access to the configuration screen is then by pushing the "OK" button.

The screenshot shows the 'Settings' window for the 'DPSLAB ENGINE'. The window title is 'Settings' and the subtitle is 'DPSLAB ENGINE (In order to edit the settings first you must stop the DPSLAB)'. There is a 'Close' button in the top right corner. The main content area is divided into several sections:

- SERVICES**: A list of services, including 'MIT\_PBM\_100'. Each service has fields for 'Id', 'Default Language', 'Description', 'Title', and 'Ticket Info'.
- GENERAL CONFIG**: A section with tabs for 'General', 'Specific', 'Customer Asks', 'Product Asks', 'Formats', and 'Others'. The 'General' tab is selected, showing options for 'Unicode', 'Multiformat', 'Image processing', 'Compression', 'Orientation', 'Compatible extensions', and 'Adjust to format dimensions'.
- WORKING**: A section with a checkbox for 'Is Batch' and a section for 'Execution & Transfer Time Window' with 'Start' and 'End' time pickers and a 'Times and interval to retry Failed Transfers' section.
- SEND METHOD**: A section with a dropdown menu for 'SELF'.
- PROTOCOL**: A section with a dropdown menu for 'MIT\_PBM\_100' and version information 'Version 1.2.1.0 Copyright Mitsubishi Electric Europe B.V. 2010'.
- PUBLISHED INFORMATION**: A section with a checkbox for 'Publish Service' and a list of 'Formats' including '10x15 cm - 4x6 inch'.

At the bottom of the window, there are buttons for 'Add Service', 'Delete Service', 'Save', 'Save and Close', 'Export', and 'Import'.

This screen shows the current configuration.

### IMPORTANT

The configuration can only be modified when DPSLAB stops. To stop it, click on "Stop" in the contextual menu, or pause the Service Module at Dispatcher.

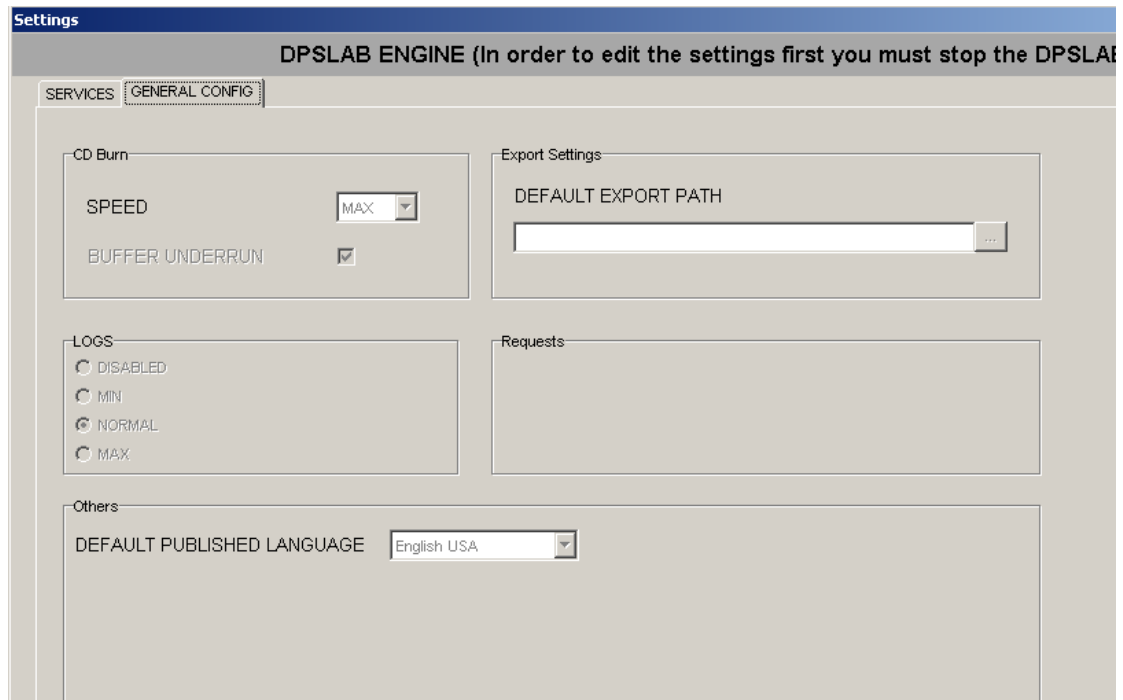
## 3.2 The configuration screen

The configuration screen is divided into 2 sections or tabs:

- **General Config**: General application settings.
- **Services**: In this section the services to be published and which allow access by third party laboratories are created and configured.

### 3.2.1.1 General Config

The overall settings which affect the various aspects of DPSLAB are configured in this section.



The settings are:

- **CD Burn:** This setting is applied to CD burning.
  - **Speed:** CD burning speed.
  - **Buffer underrun:** If the recorder has this feature, the recording is protected against intensive use of the CPU by another application. It is advisable to always leave this option activated.
- **Export Settings:** Settings applied to the "Export" function of the main configuration page (see "import/ export" section of this manual)
  - **Default export path:** Default folder to where configurations are exported.
- **LOGS:** Shows the type of level of the application Logs.
- **Others:** Other settings.
  - **Default published language:** Shows the default language used for all services that are published.

### 3.2.1.2 Services

This tab maintains the services that DPSLab publishes. It allows you to add, modify all data and configure behaviour.

Each one of the services appears here in tab form. Three sections may be distinguished here: Description of the service, working information, sending mode, protocol and published information. The following points describe these sections.

There are two buttons to "create" and "delete" services:

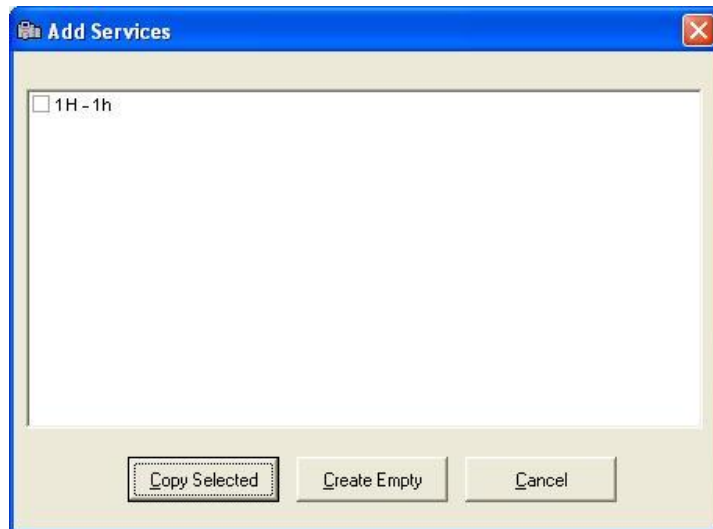
- "Add Service" Button – Adds a new service tab with a new service at the end of the existing ones. The tabs of newly-added services are marked with the (\*) suffix.
- It is also possible to create a new service or department by copying an existing one. See below.
- "Delete Service" Button – Eliminates the service currently displayed.

#### 3.2.1.2.1 Add a service

The add service button behaves differently depending on whether there are services already configured or not.

If there is no service configured it creates an empty service, without a protocol or sending mode.

If a service has there already been created, DPSLab presents a list of the services already configured and allows you to select the one to be copied or else create an empty one, as shown in the following screen:



- The "Copy Selected" button will create a new service by COPYING THE WHOLE configuration of the the service selected, including internationalisation (Translations), taking us back to the settings screen to personalise the new service.
- The "Create Empty" button creates a new empty service, without protocol or sending mode.
- The "Cancel" button returns you to settings without doing anything.

In both cases, of creation, the service is created with the "LABS<N>", where <N> depends on existing ones, identifier and the newly created suffix (\*). <N> is assigned sequentially.

The ID field identifies the service.

Each one of the sections of a service configuration is described below.

#### NOTE

There is a series of parameters, which are specifications of the actual protocol, which have been deactivated to avoid wrong configurations and therefore a protocol malfunction. They have been left visible to the user to so that they can be easily read if they need to be known.



### 3.2.1.3 SERVICE

The "SERVICE" section a service tab specifies a series of properties of the service.

The following fields are to be filled in:

- **ID:** Unique service identifier.
- **Default language:** Specifies the language of the descriptions.
- **Title:** Summarised description of the service.
- **Description:** Detailed description of the service.
- 

### 3.2.1.4 WORKING

- The "WORKING" section a service tab specifies a series of properties on how the service may be work.

The following fields are to be filled in:

- **Is Batch:** Specifies if an order for this service will be executed in "EXECUTING" mode or in "BATCH\_EXECUTING" mode, from the point of view of Dispatcher.
- **Execution & Transfer time window:** It is used to specify in which time interval an order for this service will be processed. If an order arrives outside the established time interval it goes to "pending" status until the time interval arrives. DPSLab periodically checks if the scheduled orders have reached their time interval. By default the interval will be 24h (00:00:00 to 23:59:59).
- **Times an interval to retry Failed Transfers:** It is used to specify how many times, a failed to send order, should attempt to send, and the time between retries. If -1 times is specified it means that attempts are made infinite.
- **Note:** In old versions this was a global parameter. Now, it is specified for every service.

### 3.2.1.5 PROTOCOL

This section is used to configure how the information to be sent to a destination (local or remote) will be generated, how images are processed, how part of the protocol behaves, the media supported by the protocol and even what information may be prompted of the user.

The following screen shows the complete design of the configuration of protocol data.

This configuration is divided into the following parts:

- **General:** the main configuration settings for image processing and some general aspects of the protocol.
- **Specific:** the configuration settings of specific aspects of the protocol. This includes a description of each parameter.
- **Customer Asks:** Questions related to the customer: Name, telephone number, etc. The customer answer will be sent to the lab through the summary output file.
- **Product Asks:** obsolete.
- **Formats:** Configuration of the various printing formats offered by the laboratory. Each protocol installs a configured group of formats, but this section is completely configurable.

#### NOTE

Alter changing the formats for an existing service the price adjustments of all the Kiosks that are connected to this machine must be checked, as they will be affected by the changes

- **Others:** The properties which are totally subject to the protocol are configured in this tab. Each setting is described in detail in the following sections.

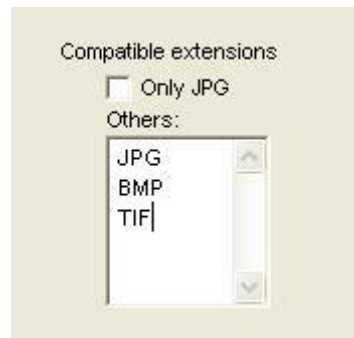
### 3.2.1.6 General

- Image processing
- - **Compression:** Shows the compression factor applied to the images when converting them from their original format (TIF, GIF, etc.) to JPG format. 0 – Maximum quality (minimum compression), 100 – Minimum quality (maximum compression).
  - **Position:** Shows the position of the images which the protocol accepts. Multiposition - The protocol accepts all photo positions.

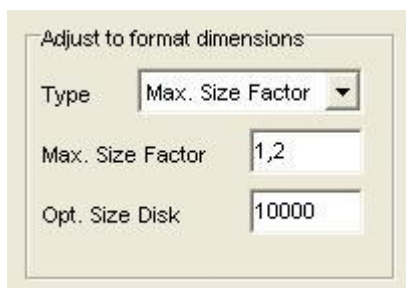
Horizontal – The protocol requires all the photos to be in a horizontal position. If any are not, they will be rotated.

Vertical – The protocol requires all the photos to be in a vertical position. If any are not, they will be rotated.

- **Only JPG:** If this box is checked the protocol only accepts image files in JPG format. If not, it accepts all the formats specified in the "others" field.
- **Others:** This specifies the image extensions that are not automatically converted to JPG, for sending to the laboratory, if the "only JPG" box is not checked. One extension per line must be written with no dot before it, as shown in the image.



- **Type of adjust to format dimensions:** There are three options for adjusting the image to the laboratory format when the image size is larger than the formats:
  - Cut - the image is reduced until one of the sides coincides with one of the dimensions of the format. The other dimension, which will always be bigger than that of the format, will be cut proportionally on both sides.
  - Fit Sides - The image is made smaller so that both dimensions are within the format. One of them is the same as one of the format, and the other will therefore be smaller than the format. In this case, there will always be a white edge on the paper when printing.
  - Max. Size Factor - This reduction is only applied when the image size is larger than the value in the field Opt. Size Disk (in KBytes) and if the image dimensions are larger than those of the format after applying the Max. Size Factor. This means that the image is changed providing that the dimensions of image x Max. Size Factor > format dimensions.



This type of adjustment is used to reduce the weight of images without reducing their quality, in order to be able to apply it when sending by FTP, for example.

- General
- - **Multiformat:** This shows whether the protocol can handle transfers of orders with more than one format type (10 x 15 and 13 x 18, for example).  
TRUE - The protocol accepts orders with more than one type of print format.  
FALSE - The protocol only accepts one format per order.
  - **Unicode:** This shows whether the protocol accepts Unicode (texts in a non-Latin alphabet) both in the various texts it handles and the in image and directory names which it works with. The default UNICODE coding system UTF-8.  
TRUE - The protocol accepts Unicode  
FALSE - The protocol does not accept Unicode

### 3.2.1.7 Specific

This enables the values of a series of variables for the protocol to be defined, which change its behaviour as a specific protocol. It consists of a table with the property name in the left-hand field (not changeable), and the assigned value in the right (changeable). A descriptive panel is on the right of the table, which contains information on the variable on which the cursor is placed at any given time.

For example:

Key	Value	Description
PRINT_MEE_LOGO	TRUE	Indicates whether to print the Mitsubishi Logo
PRINT_SHOP_LOGO	TRUE	
PBM_IP	192.168.0.50	
PBM_PORT	8731	
SHUTDOWN_PBM	TRUE	
PBM_ARCHIVING_MODE	0 - None	

See the protocol manual for more information on the configuration of each setting.

### 3.2.1.8 Customer Asks

The following tabs contain questions on user and product data which can be configured. It presents a table of 3 columns:

- **Key:** Identifying name of the question being configured (not changeable)
- **Asks:** Editable field recording the question for the end user
- **Default Value:** Editable field. Default value applied in response to the question if the user does not select any value (this is also the default value which appears on the screen)

The currently selected value is explained in more detail in the description field on the right of the table.

Key	Ask	Default Value
NAME	Please type your name	
TELEPHONE	Please type your telephone number	

Description  
Ask the customer name

### 3.2.1.9 Formats

The formats tab contains a control in the form of a table which enables all the formats data to be edited, the existing ones to be deleted and other new ones to be added.

K. ALIAS	K. INCH ALIAS	K. OPER ALIAS	K. INCH OPE	LAB. PRODUC	LAB. PRODUCT	WIDTH (Px)	HEIGHT (Px)	PRINT v
10x15	4x6	10x15	4x6	0000	Size 10x15	2152	1416	0
9x13	3.5x5	9x13	3.5x5	1111	9x13	1812	1240	0
15x23	6x9	15x23	6x9	2222	15x23	2152	3146	0
10x15	4x6	10x15 (x2)	4x6 (x2)	3333	10x15 (x2)	2152	3146	0
11.5x15	4.5x6	11.5x15 (x2)	4.5x6 (x2)	4444	11.5x15 (x2)	2152	3146	0
13x18	5x7	13x18W	5x7W	5555	13x18W	2152	3146	0
15x20	6x8	15x20	6x8	6666	15x20	2152	2792	0

Delete Add

The rest of columns:

PRINT H. (mm)	DPIs	MEGAPIXEL
0	346	2.133
0	346	1.572
0	346	4.739
0	346	4.739
0	346	4.739
0	346	4.739
0	346	4.205

The "delete" button enables the selected row to be deleted.

The "add" button enables more formats to be added to the end of the list. It is not possible to add a new format if one if half specified.

The fields are as follows:

- **K. ALIAS** – The visible client alias identifier of DPSLab for the format (in CM).
- **K. INCH ALIAS** – The visible client alias identifier of DPSLab for the format (in INCHES).

- **K. OPER ALIAS** – The operator internal alias identifier of DPSLab for the format (in CM).
- **K. INCH OPER ALIAS** – The operator internal alias identifier of DPSLab for the format (in INCHES).
- **LAB. PRODUCT ID** – Identifier of the laboratory for the format.
- **LAB. PRODUCT DESCRIPTION**– Description of the format by the laboratory.
- **WIDTH** – Width of the format in pixels.
- **HEIGHT** - Height of the format in pixels
- **DPIs** – The recommended DPIS for the format. The DPSLAB engine doesn't use this data for internal processing, but this information is published by DPSLAB and is used for some applications for picture rendering operations.

All the above fields are compulsory. The following are optional:

- **PRINT WIDTH** – Width of the paper to be used to print the image in millimetres. This is only used in some protocols. If not specified in the protocol, 0 can be used.
- **PRINT HEIGHT** – Height of the paper to be used to print the image, in millimetres. This is only used in some protocols. If not specified in the protocol, 0 can be used.
- **MEGAPIXELS** – This value is for information purposes and specifies the size in pixels the image should have in order to be printed in this format and to obtain an acceptable quality.
- 

### 3.2.1.10 Others

This tab specifies totally free properties, which are only textual, in order to provide the protocol with additional free information. This information is sent to the laboratory where it may be read. This section is optional.

General Specific Customer Asks Product Asks Formats Others	
Key	Value
OPERATOR_INFO_0.DESCRPTION	Shop_ID
OPERATOR_INFO_0.DEFAULT_VALUE	MITSUBISHI FOTO
OPERATOR_INFO_1.DESCRPTION	Shop_City
OPERATOR_INFO_1.DEFAULT_VALUE	Barcelona
OPERATOR_INFO_2.DESCRPTION	SendTo
OPERATOR_INFO_2.DEFAULT_VALUE	SendTo

### 3.2.1.11 SEND METHOD

For a service, it is necessary to specify the way in which the results of this processing will be sent to the laboratories' systems as well as the protocol responsible for processing orders.

There are 4 possible types of sending when configuring a service:

- **Delivery** - The order is not sent automatically, but instead waits for recording on a memory card or on a CD. When this happens it is deemed to be "sent".
- **LAN** - Enables a route within the network to be specified, by which orders are sent for processing.

- **FTP** – Enables sending to an FTP server (File Transfer Protocol) to be specified
- **Self** - In this case the protocol software establishes its own sending mode.

Of the four modes only LAN and FTP require additional settings:

### FTP

The 'SEND METHOD' dialog box has a title bar with the text 'SEND METHOD'. Inside, there is a dropdown menu at the top with 'FTP' selected. Below this, there are three input fields: 'HOST', 'PORT', and 'HOME DIR', each followed by a text box. To the right of the 'HOME DIR' text box is a 'TEST' button. Below these fields are two more sets of input fields: 'LOGIN' and 'PASSWORD', each followed by a text box. Below the 'LOGIN' and 'PASSWORD' fields is a 'USE PROXI' dropdown menu with 'TRUE' selected. To the right of this dropdown are two more input fields: 'HOST' and 'PORT', each followed by a text box. Below these fields are two more input fields: 'LOGIN' and 'PASSWORD', each followed by a text box.

- **HOST:** IP or name of the HOST of the FTP server where the orders are sent.
- **PORT:** The port through which the FTP service is active on the server. This is usually 21.
- **HOME DIR:** If it is necessary to leave the orders in a subfile in an FTP account, the route must be specified in this field with the format '\<path to the folder>'.
- **LOGIN:** User identifier for beginning a session on the FTP server.
- **PASSWORD:** Password to begin a session on the FTP server.
- **USE PROXI:** Shows whether a connection through a PROXY is to be used. The following fields are only valid if the answer is TRUE.
- **HOST, PORT, LOGIN and PASSWORD in combination with USE PROXI:** Defines the necessary settings for the configuration of a PROXY.
- **TEST Button:** After all the fields have been completed, this button enables access to the configured FTP server and the feasibility of normal actions to be checked.

•

### LAN

The 'SEND METHOD' dialog box has a title bar with the text 'SEND METHOD'. Inside, there is a dropdown menu at the top with 'LAN' selected. Below this, there is a 'Path' label followed by a text box containing 'D:\temp'. To the right of the text box is a button with three dots '...'. Below the text box is a 'TEST' button.

- **PATH:** Route to the folder where processed orders are deposited.
- **'...' button:** This enables a folder selection dialogue to be opened and the folder selected to be copied in the PATH field.
- **TEST Button:** After all the fields have been completed, this button enables access to the configured Folder and the feasibility of normal actions to be checked.

•

### 3.2.1.12 Published Information

Of all the information that is configured for each one of the services, there is a part that is published in the core Flexilab system so that it will be available to the rest of the applications.

The following information is published:

**SERVICE Section:** The ID, Title, TICKET INFO and DESCRIPTION are published.

**PROTOCOL Section:** the following screen shows the information that may or may not be published depending on the selection

**PUBLISHED INFORMATION**

☒ Publish Service

Formats:

- ☒ 10x15 cm - 4x6 inch
- ☒ 9x13 cm - 3.5x5 inch
- ☐ 15x23 cm - 6x9 inch
- ☐ 10x15(x2) cm - 4x6(x2) inch
- ☐ 11.5x15(x2) cm - 4.5x6(x2) inc
- ☐ 13x18W cm - 5x7W inch
- ☒ 15x20 cm - 6x8 inch
- ☒ 15x21 cm - 6x8.5 inch
- ☐ 13x18 cm - 5x7 inch
- ☐ 20x25 cm - 8x10 inch
- ☐ 20x30 cm - 8x12 inch

☒ Customer Asks

☐ Product Asks

**Publish Service:** it is used to configure if the entire service is published and visible to Dispatcher system.

**Formats:** it is used to configure, using the check on the left, which formats, of those configured in the formats tab, are available for selection in orders.

**Customer Asks:** for selecting if the use will be asked the questions configured in the "Customer Asks" tab when an order is made for this service.

The available printing formats must be enabled to be able to process orders.

#### NOTE

The maximum of formats enabled in the DPSLab should be 8.

When the information to be published is changed the DPSLab must be started for the changes to be applied.

## 3.3 Internationalization

DPSLab has resources to translate texts which may appear on end user screens when there is a change of language in the final applications.



the services configuration tab has a button called 'Internationalization' enabling the texts in the configuration which end users, e.g. asks, description of services, descriptions of formats, etc. to be edited.

DPSLab has a specialist screen presenting the user with all the texts liable for translation in table data form.

The screenshot shows the 'Internationalization Editor' window. At the top, there is a text box containing 'PROTOCOL : MIT\_GEN\_200' and a dropdown menu. Below this, a tab labeled 'English USA (Default)' is selected. The main area contains a table with the following data:

GROUP	VAR / ID / ALIAS	FIELD	VALUE
COSTUMER_ASK	NAME	ASK	Please type your name
		DEFAULT_VALUE	fhfhfgh
	TELEPHONE	ASK	Please type your telephone number
		DEFAULT_VALUE	ytyyi
FORMATS	10x15	KIOSK_DESCRIPTION	Standard photography size 10x15
		LAB_PROD_DESCRIPTION	Size 10x15
	13x18	KIOSK_DESCRIPTION	Big Size 13x18
		LAB_PROD_DESCRIPTION	Size 13x18
PRODUCT_ASK	BORDER	ASK	Do you want white border?
		OPTION_0	Yes
		OPTION_1	No
	COLOR	ASK	What color option do you want?
		OPTION_0	Color
		OPTION_1	Black & White
		OPTION_2	Sepia
	SURFACE	ASK	What kind of paper do you prefer?
		OPTION_0	Glossy
		OPTION_1	Matt
SERVICE_ASK	HOMEINFO	OPTION_2	Semimatt
		ASK	desires receive product information at home?

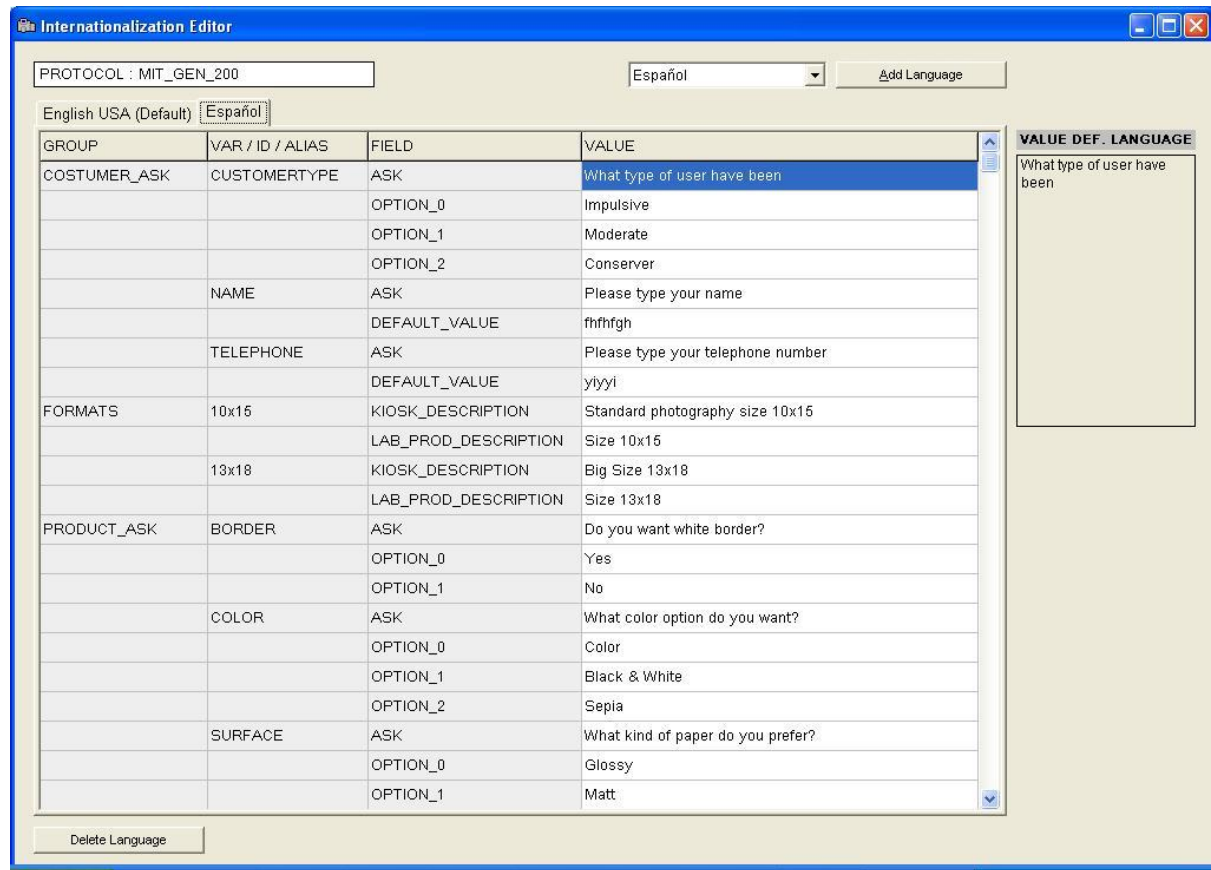
On the right side of the window, there is a panel titled 'VALUE DEF. LANGUAGE' containing a text box with the text 'Please type your name'. At the bottom left, there is a 'Delete Language' button.

The top left box shows what is being edited (SERVICE) and the identifier of the element (ID of the service).

The first tab to appear is the one texts in the default language which is the basis for the other translations.

To add new translations, select a language in the drop-down menu in the centre of the screen and then push the "Add Language" button. A new tab appears with the name of the language and a copy of all the keys and original texts in the default language. The "VALUE" column is open for each editing, with the texts in the default language for overwriting in the target language.

The text of the selected key always appears in the default language in the text panel ('VALUE DEF. LANGUAGE') on the right of the screen. This makes the task of translation easier.



The keys identifying the texts are organised hierarchically.

- The GROUP column shows to which large group the texts included in it belong: ASKS, FORMATS, SERVICE, etc.
- The VAR / ID / ALIAS column shows to which subgroup among the elements of GROUP the texts belong, i.e.: CUSTOMERTYPE, NAME, TELEPHONE, etc .
- The FIELD column shows which elements of the previous subgroup are translated. For example, in the case of ASKS for each question in settings the ASK itself and its default value is configured, meaning that what is translated on this screen is the subelement ASK and its DEFAULT\_VALUE. Furthermore, for option selection elements the description of the options can be translated.

This system of keys means that identifying which settings belong to an entry is very intuitive.

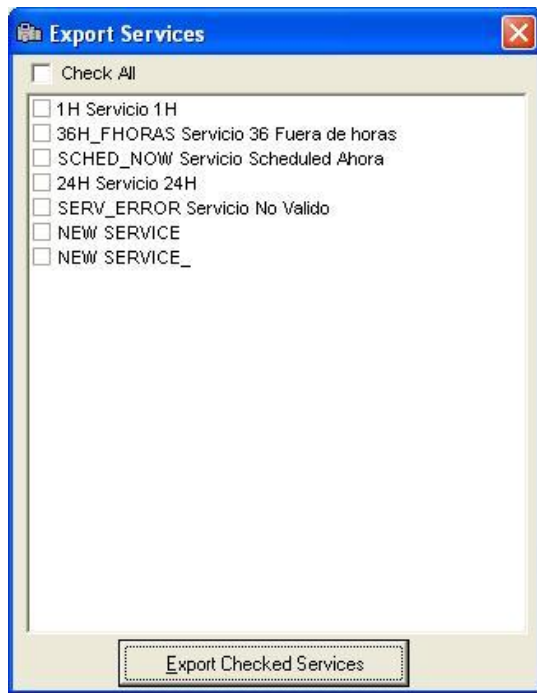
### 3.4 Import / Export

Because of the large amount of information generated when the services are configured, DPSLab has been equipped with a mechanism for exporting the configuration of the desired services in order to be able to be import them into other DPSLABs, conveniently, comfortably and as many times as desired.

The configurations are exported in a single file with the extension .sed (Service Exported Data) and are imported into another DPSLAB.

#### 3.4.1.1 Export

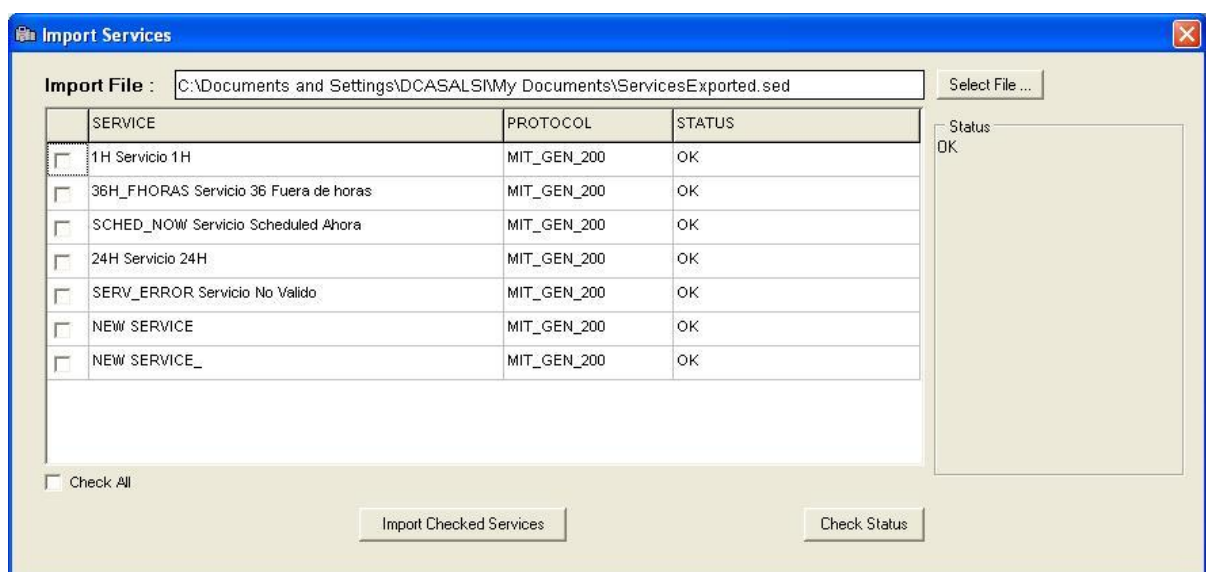
The "Export" button of the "settings" screen provides access to the exportation screen.



Select the services to be exported and then push the 'Export Checked Services' button. A "Save as" dialogue will open and saving the file as ServicesExported.sed will be suggested. The name can be changed but doing so is not recommended. When "save" is pressed, the services will be exported and the screen closes automatically.

### 3.4.1.2 Import

The "import" button on the "settings" screen accesses the import screen. There is a button for selecting the .sed file to be imported. After the file has been selected, the services detected inside it are loaded and a short description of its configuration and the loading status is given. This shows if the services included can be imported directly or if there is any problem, such as the protocol they use not being installed, the version of the protocol not being the same as and not compatible with the one installed, etc.



On this screen, select the services to be imported and press 'Import Checked Services'.

**NOTE**

Final importation replaces all the current "settings" services for imported ones. If "settings" is cancelled without saving, the original configuration is maintained.

If there is any service with a non-OK status, the reason will appear in the "Status" text panel on the right of the screen, when clicked.

Some of the reasons which may cause a service to be in a non-OK status e.g. the protocol it uses is not installed, can be solved at the time. Install the new protocol and then press the "Check Status" button. This will cause the new protocol to be loaded and the validation of the service to be correct and importing to be possible.

## **4 Installation and configuration of the MIT\_GEN\_200 protocol**

### **4.1 Introduction to the protocol**

The MIT\_GEN\_200 Protocol enables the DPSLAB system to send printing requests for photos to the Mitsubishi Labs using the MITSUBISHI PROTOCOL V2.0. protocol.

### **4.2 Specific characteristics of the protocol**

As a protocol of the DPS system, its main characteristics are:

- It accepts UNICODE.
- It accepts images in any position.
- The type of image files it accepts is configured in each installation.
- It accepts requests with various formats at the same time.

### **4.3 Software installation**

The programme for starting the installation is the self-installing 'MIT\_GEN\_200 - 2.6.0-setup.exe' located in the software folder.

This installer is the typical type used in DPSLAB installations, which is very intuitive and easy to use. Remember that the protocol is installed in the MODULES folder in the DPSLab installation directory.

### **4.4 Configuration**

This section describes the default settings specified for the protocol configuration.

## 4.4.1.1 General

MIT\_GEN\_200 Version 2.6.0.1 Copyright Mitsubishi Electric Europe B.V. 2005

General Specific Customer Asks Product Asks Formats Others

General

Unicode  
TRUE

Multiformat  
TRUE

Image processing

Compression  
0

Orientation  
MultiOrientation

Compatible extensions  
☐ Only JPG  
Others:  
JPG  
BMP  
TIF  
TIFF  
GIF

Adjust to format dimensions

Type  
Max. Size Factor

Max. Size Factor  
1.2

Opt. Size Disk  
10000

Field	Value
Unicode	TRUE
Compression	0
Type of format adjust	Max. Size Factor
Max. Size Factor	1.2
Opt. Size Disk	10000
Orientation	Multiorientation
Multiformat	TRUE
Only JPG	Not Checked
Others	JPG, BMP, TIFF, TIF, GIF, JPEG, PSD, PNG, WMF, EMF, DIS, PCD

## 4.4.1.2 Specifics

MIT\_GEN\_200 Version 2.6.0.1 Copyright Mitsubishi Electric Europe B.V. 2005

General Specific Customer Asks Product Asks Formats Others

Key	Value	Description
COPIESMODE	0	The destination folder name of request is built by KioskID_RequestID_(FOLDER_NAME_LABEL)
RENDERORDER	FALSE	
FOLDER_NAME_LABEL	NAME	
SIMPLIFIED_FILENAMES	FALSE	
DEFAULT_FORMAT	0000	
WORK_UNIT	CM - CM	

Key	Value	Description and values
COPIESMODE	0	<p>This setting shows how the number of copies per image is identified.</p> <p>0 – by the name of the format folders</p> <p>1 – by the name of the images.</p>
RENDERORDER	FALSE	<p>Specifies whether the image 'RenderOrder.jpg' is generated. This is a summary of the contents of the order in image format.</p> <p>Possible values:</p> <p>TRUE – RenderOrder.jpg. is generated.</p> <p>FALSE – The image RenderOrder.jpg is not generated.</p>
FOLDER_NAME_LABEL	NAME	The folder of the order generated will include the CUSTOMER ASK value shown here.
SIMPLIFIED_FILENAMES	TRUE	Defines whether the convention of 8 characters for the file names used in older systems is to be used.

		<p>TRUE – The convention of 8 characters is used.</p> <p>FALSE - All the files HAVE their complete name.</p> <p>The value TRUE will disable communication with any Mitsubishi CLICK PRO 1.0 or SUPERIOR terminal. The name of images provided by the client does not change.</p>
DEFAULT_FORMAT	0000	The lab product id of the format that is applied when there is not matching from the format arrived in an order and the format list of the service.
WORK_UNIT	CM – CM	<p>The unit alias of formats that use to generate the folder names and dps file.</p> <p>CM –CM – Then use K. ALIAS.</p> <p>INCH – INCH – Then use K. INCH ALIAS.</p>

#### 4.4.1.3 Formats

It is specified, by default, all the formats Collection of standard use in Mitsubishi printers.

#### 4.4.1.4 Customer and Product Asks

It specifies asks for the customer. They are very intuitive to set up.

#### 4.4.1.5 Others

Free information can be configured to be sent with the results of an order. This information has no effect on DPS Labs behaviour. If you wish to send a specific information with each order, you can use 'Others'. On this tab DESCRIPTION refers to the description of the information and KEY to the corresponding value. For example, if you wish to add the name of the shop to each order, you can create a Key called 'NAME OF THE SHOP' and with the value 'MITSUBISHI SHOP'. This information is defined by the protocol itself and the values can be modified using the settings interface



Key	Value	Description and values
OPERATOR_INFO_0.DESCRPTION	Shop_ID	Shop identifier
OPERATOR_INFO_0.DEFAULT_VALUE		Value which identifies the shop (response to the previous description)
OPERATOR_INFO_1.DESCRPTION	Shop_City	Name of the city where the shop is located.
OPERATOR_INFO_1.DEFAULT_VALUE		The city (response to the previous description)
OPERATOR_INFO_2.DESCRPTION	SendTo	Information on who to send the order to
OPERATOR_INFO_2.DEFAULT_VALUE	Customer	The addressee (response to the previous description)

## **5 Installation and configuration of the MIT\_PBM\_100 service**

### **5.1 Introduction to the service MIT PBM 100 and protocol MIT PBM 100**

The MIT\_PBM\_100 service is a preconfigured and protected service for enable the Dispatcher system to send orders to the PocketBook machine PBM, it install also the protocol MIT\_PBM\_100 which communicates with the PBM machine.

### **5.2 Specific characteristics of Service MIT PBM 100**

- It uses MIT\_PBM\_100 protocol to communicate with PBM machine. See below it specification.
- It is only enabled configure the working settings and the service publish, also the specifics and others of the protocol (See below). The rest of settings are protected for preserving the correct function of print.

### **5.3 Specific characteristics of the protocol MIT PBM 100**

As a protocol of the DPS system, its main characteristics are:

- It DOESN'T accepts UNICODE.
- It DOESN'T accepts images in any position, only horizontal.
- It only accepts jpeg images.
- It only accepts requests with one format at one time.

### **5.4 Software installation**

The programme for starting the installation is the self-installing 'MIT\_PBM\_100\_SERVICE - 1.2.0- setup.exe' located in the software folder. Remember that the service is installed in the SERVICES folder in the DPSLab installation directory.

This installer is the typical type used in DPSLAB installations, which is very intuitive and easy to use.

It also installs the protocol MIT\_PBM\_100 version 1.2.0 with the installer 'MIT\_PBM\_100 - 1.2.0- setup.exe'. Remember that the protocol is installed in the MODULES folder in the DPSLab installation directory.

## 5.5 Configuration

This section describes the default settings specified for the service and the protocol configuration.

### 5.5.1.1 Service

The general information of the service can not be edited.

Working information is configured for Batch Executing and infinite retries.

If an order can not be processed in no way you can pause (delete) from Dispatcher Admin.

### 5.5.1.2 Protocol

### 5.5.1.3 General

Field	Value
Unicode	FALSE
Compression	0
Type of format adjust	Max. Size Factor
Max. Size Factor	2
Opt. Size Disk	10000
Orientation	Horizontal
Multiformat	FALSE
Only JPG	Checked
Others	JPG. JPEG

### 5.5.1.4 Specifics

Key	Value	Description
PRINT_MEE_LOGO	TRUE	Indicates whether to print the Mitsubishi Logo
PRINT_SHOP_LOGO	TRUE	
PBM_IP	192.168.0.50	
PBM_PORT	8731	
SHUTDOWN_PBM	TRUE	
PBM_ARCHIVING_MODE	0 - None	

Key	Value	Description and values
PRINT_MEE_LOGO	TRUE	Indicates whether to print the Mitsubishi Logo in back.
PRINT_SHOP_LOGO	TRUE	Indicates whether to print the Shop Logo in back. By default the Shop Logo is KiskGifts Logo. See Others tab for change that.
PBM_IP	192.168.0.50	IP of the production machine of Pocket Books. This is the default installation IP of machine. See it installation instructions.
PBM_PORT	8731	Services Port of the production machine of Pocket Books. This is the default installation Port of machine. See it installation instructions.
SHUTDOWN_PBM	TRUE	Indicates whether to turn off the Production Machine of Pocket Books automatically when dispatcher system shutdowns.
PBM_ARCHIVING_MODE	0 – None	Do not change this value.

### 5.5.1.5 Formats

It is specified the only supported format by the production machine. You can not change this data.

### 5.5.1.6 Others

Free information.

Key	Value	Description and values
COVER.SHOP_LOGO	KioskGiftsLogo.png	Absolute path to an image representative of Shop. By default it is the KioskGifts logo installed in DPSLAB.

## 6 Practical Cases

### Examples of configuration and use of the DPSLab module.

Some examples and the most important parameters to be configured for each case are described below. The details on special connections to minilab or remote laboratory are not explained in detail, in which the characteristics of printing sizes and specific communication protocol parameters other than the "MITSUBISHI LAB protocol" must also be edited. When a Click5000 machine is shipped, the default print size parameters are correct. The full details on the configuration of DPSLab can be found in this manual.

a) Sending jobs from standalone MITSUBISHI Kiosk (PT7000 with own printers) to a minilab. The minilab of the example needs the images in the correct size, and can only interpret JPG- and bmp-type files.

For the Labs1 service.

- TITLE: "Chemical developing in 1 hour" (for example).
- DESCRIPTION : "Come back in 1 hour to collect your photos on chemical paper."
- OPTSIZEDISK=100000
- The "Type" in "Image Processing" should be left at "Cut", since the minilab in question requires an exact print size.
- "COMPATIBLE EXTENSIONS". Uncheck "Only JPG", and make sure that only "JPG" and "BMP" appear in the "Compatible Extensions" list, deleting any other extensions.
- SENDING METHOD = LAN.

b) Sending jobs from a Click5000 to a remote laboratory with FTP connection and another laboratory a connection but with a job collection service.

For Labs1 service.

- TITLE: "Chemical developing in 2 days" (for example).
- DESCRIPTION: "Get your paper copies in 48 hours."
- OPTSIZEDISK=2500
- The "Type" in "Image Processing" should be left as "MaxSizeFactor".
- "COMPATIBLE EXTENSIONS". Check "Only JPG".
- SENDING Method = FTP.

For the second service.

- TITLE: "Chemical developing in 3 days" (for example).
- DESCRIPTION: "Get your paper copies in 3 days at the best price."
- OPTSIZEDISK=20000. 20 megas per file. It does not matter if the files are very big as they are burnt to a CD.

- The "Type" in "Image Processing" should be left as "MaxSizeFactor".
- "COMPATIBLE EXTENSIONS". Uncheck "Only JPG", and make sure that the extensions compatible with the laboratory appear in the "Compatible Extensions" list. If the laboratory prefers only JPG, check "Only JPG".
- SENDING METHOD = DELIVERY.