Easygifts Kiosk v2.1.0

User manual

Rev. 1.4

MITSUBISHI ELECTRIC

CONTENTS

ANNEX - Dispatcher

ANNEX - Monitor

ANNEX - PrintServer

ANNEX - CD Burning

1 Introduction

1.1 Description

Easygifts Kiosk 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.

Easygifts Kiosk 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 Easygifts Kiosk terminals to be connected to one or more main printing systems installed in the store or in remote labs.

The Easygifts Kiosk 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

Easygifts Kiosk 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.

- Frames and greetings cards: the images are placed in decorative frames, with the option of adding text.

- 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 various hardware models that support the Easygifts Kiosk software. The differences between them are shown in the catalogues of each product. Specifications may vary without prior notice from the manufacturer.

- PT7000EX (only versions of hardware 4 or above):

- Other OEM systems

1.5 <u>System Users</u>

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

<u>Customer User</u>

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

<u>Operator User</u>

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

<u>Supervisor User</u>

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 <u>Terminology</u>

<u>Kiosk or Easygifts Kiosk</u>

This document uses the term 'Easygifts Kiosk' to refer to the software application that provides the service to the end Customer, and the term 'Kiosk' as a more generic reference to the hardware and software unit that provides such services.

<u>Service</u>

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

<u>Order</u>

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.

<u>Service Module</u>

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

<u>Dispatcher</u>

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 Kiosk, 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 Kiosk 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 <u>Kiosk operating modes based on the workflow</u>

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 dispatcher and therefore its own printers.

In this case, when the customer confirms the order, a validation screen appears (numerical code entry) which unblocks the order production in the Kiosk Dispatcher.

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 Kiosk with its own production means (in isle mode).

1.7.3 Combined mode

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

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

In this case, since there are external production machines, it is considered that the order (or sub-orders) will be validated in each of the Dispatchers, including the Kiosk itself, where the operator must validate the order manually in the Dispatcher Admin. Screen.

In no case is the validation method displayed on the screen.

This mode is only recommended for special cases or when the store workflow allows just one order to be validated and executed in different terminals without any problems.

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 the other units at the same time, or just as a production centre, depending on the configuration.

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.
- a validation ticket is also 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.

4) First of all the Customer chooses 'Pending Orders' on the production machine, if it allows other types of services to be executed, or directly validates the order using the barcode scanner or types in the numerical code manually.

(NOTE: no receipt is printed out at this point)

5) The order will automatically start processing.

1.8 Initial start-up: user-based operating mode

When starting up the application for the first time, the usage mode selection screen appears:
-   'Kiosk' mode. This offers the photographic services which can be used by the end user. It can subsequently be configured in any of the modes described in the previous chapter.
-   'Pending Orders' mode. Only for the Kiosks isle mode. This machine is converted into an unblocking and order production machine and is also for use by the end customer.
-   'Click' mode. This offers the usual professional photographic services that can be used by the store operator.
-   'Dispatcher' mode. This is used when the machine only receives orders from Kiosks operating in the 'Order Terminal' mode. The store operator uses the machine only to unblock the production of orders.

2 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.
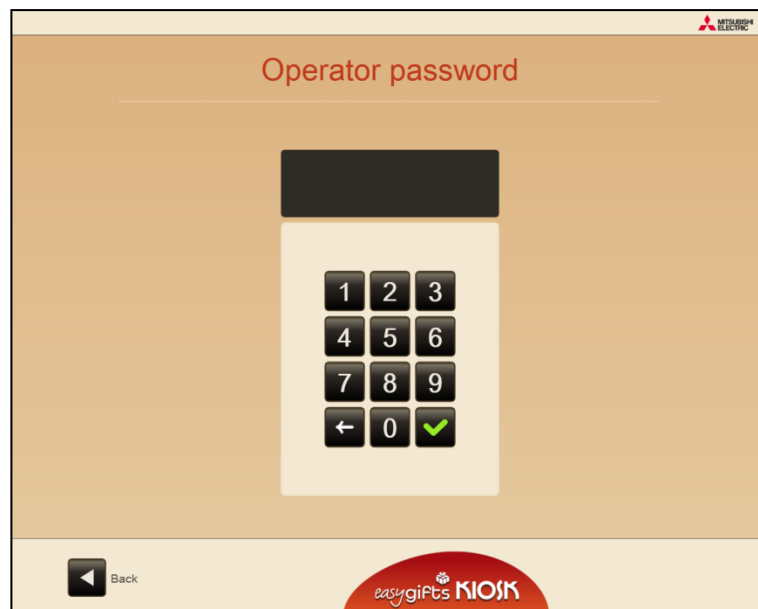
The default password in new units is 123 for the supervisor and blank for the operators.

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

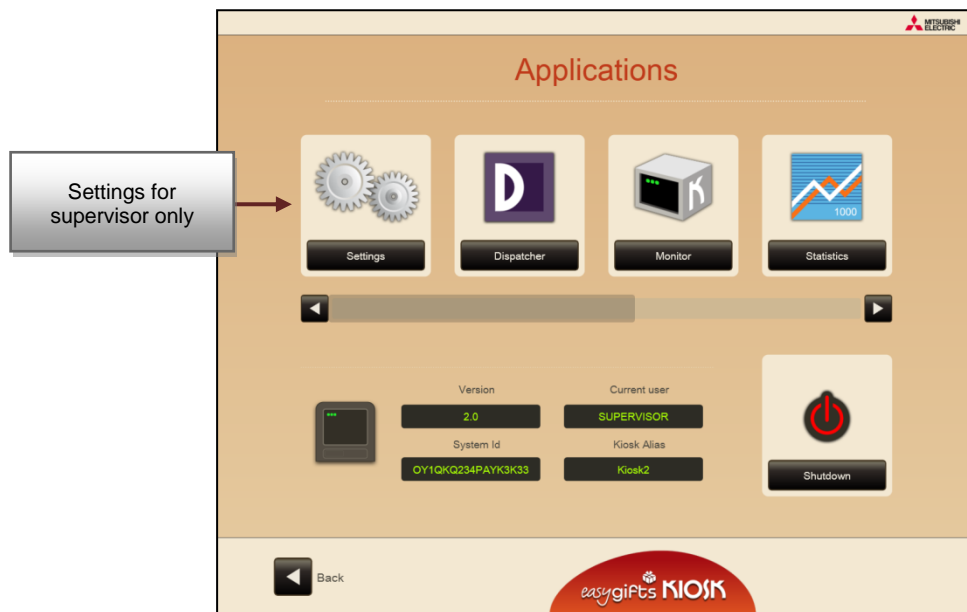- Statistics. Remote support. If your installation allows it, using this option will give technical support access to your machine; consult your dealer for more information.

- Operator mode. This option sets the kiosk to operator mode (see the section on Operator services for more information)

- Liveupdate. Remote update module.

- 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.

3 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.

3.1 <u>General settings</u>

When you press the 'General Settings' button, the following screen will appear.
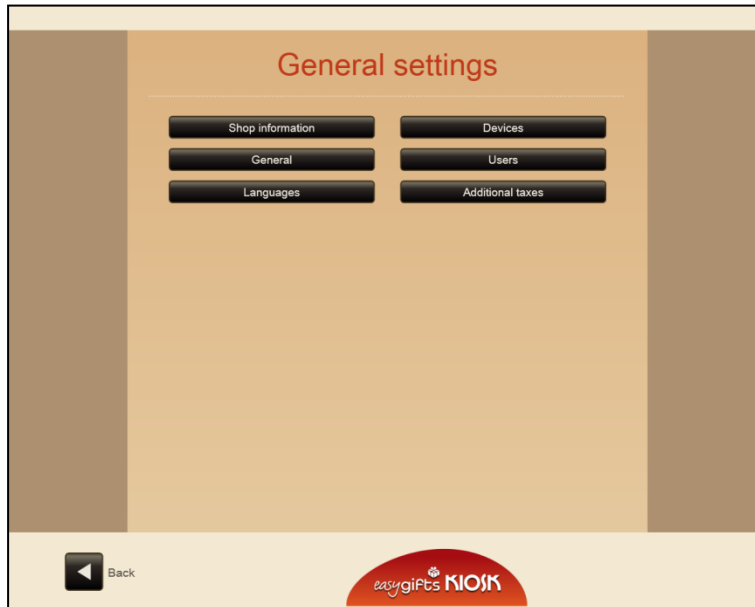
From this page you can configure:

- 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

3.1.1 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 'Easygifts Kiosk' 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.

3.1.2 General parameters

3.1.2.1 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 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.

3.1.2.2 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.

3.1.2.3 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.

3.1.2.4 Master Formats

The 'Master Formats' option, which is related to filtering printing formats, can be activated or deactivated.

When the Master Formats option is activated, it is not necessary to specify the specific paper format to be used for each product. Just select a more generic type of format for each product (such as 10x15, 13x18, 15x23…) without worrying about the different names that these paper formats may have, depending on the printer model installed or the type of paper being used (normal, HG, etc…)

The correct procedure for working with master formats is described below:

1) In the formats table published in the printing server, tick only those that are absolutely necessary.

2) In the products associated with each service, select the required printing formats, which may be any of those shown in the list. The list is formed by a previous selection made in the printing server. All you need to do is create one product for each different printsize, The following illustration shows how to assign a printsize for a greetings card product with a size of 10x15.

Product Edition

Basic Information

Product Name			
Reference	1	Order	1
Sheets number	1	Matte	

Product Icon/Picture D:\Photo\config\Greetings\Products\Icons\GreetingsLoveProduct_1 ...

Detail delivery instructions

Operator delivery instructions

Destination Machine	Kiosk123 ▼	Service Module	PRINTS ▼
Media Type	10x15 ▼	Media	10x15 ▼

PrintServer Channel

- 20x25H
- 15x20_A5
- **10x15**
- 20x30H
- 10x15HG
- 9x13
- 9x13HG
- 15x23
- 15x23HG
- 13x18

Orientation

Family

...tional Information

Select a format from among those that are equivalent to the same printsize

easygifts KIOSK

This way, it will make no difference whether you select 10x15HG or 10x15 for a product, since both are equivalent to each other. This will also be helpful for automatically reducing the product lists shown to the end customer for each service.

NOTE
IMPORTANT: although the Master Formats are activated, if you create a product with a specific paper format and that format is then eliminated from the list published in the printing server (by unchecking it in the following screen), the product will automatically be deactivated and not be available. In some services, this product will be highlighted in orange in the maintenance screens, as shown in the following illustration.
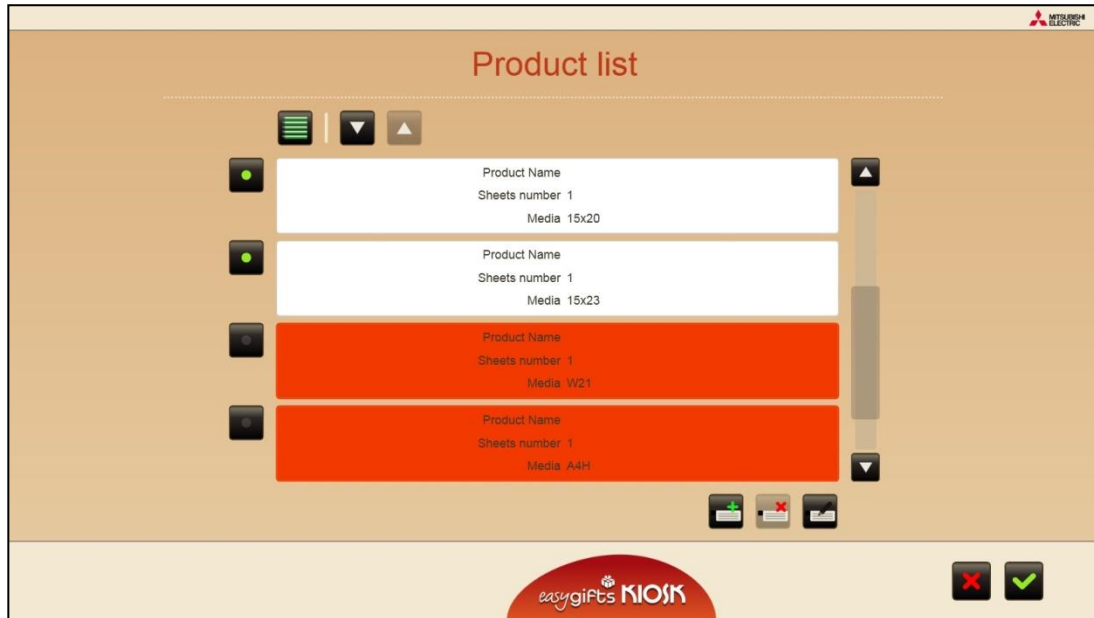
3.1.2.5 Taxes and discounts

- 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.

When value is '0' , taxes are disabled and no related message will appear in the ticket receipt.

3.1.2.6 Rotary panel 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 processes. It may not be set below a given value.

3.1.2.7 '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.

3.1.2.8 Display validation keyboard

When the validation keyboard is used to unblock an order in the Kiosk, the keyboard can be hidden on the screen to prevent the incorrect entry of codes by a user who is standing in front of the Kiosk. This also facilitates the use of wireless keyboards from the administrator or remote validation stations, since that way there is only one keyboard data entry point.

3.1.2.9 Asking about matt finishes

When this parameter is activated, all services offering products that allow for printing with a matt finish will, at some point in creating the order, ask the user whether he wishes to print using this printing quality.

NOTE
IMPORTANT: this parameter enables matt printing on a global scale, but the operator is responsible for checking that the printers and consumables to be used to print the different products permit this finish. If a matt finish is assigned to a product that is printed out in a printer that does not allow this, the customer's selection will be ignored and the printing quality will be based on the default finish (glossy).

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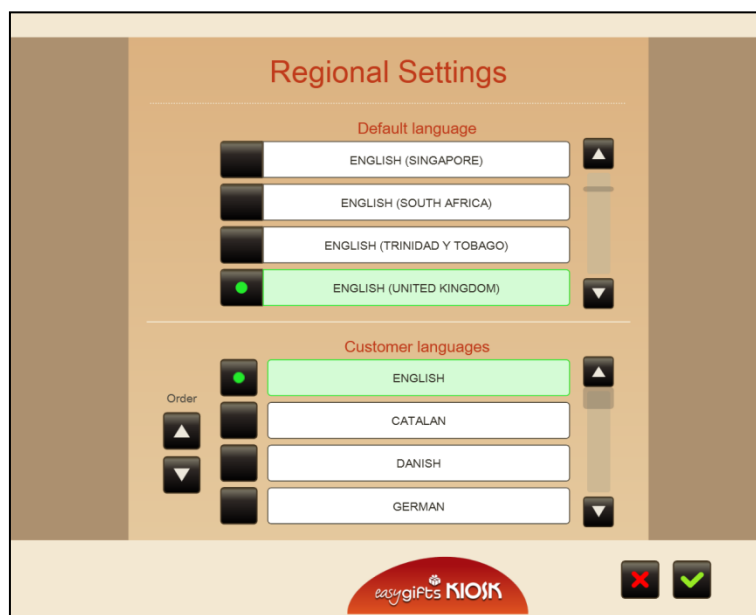
This screen enables you to set the languages to be used in Easygifts Kiosk. It is split into two parts to differentiate the language Easygifts Kiosk will use at an operator level (for the administration screens, default system language, etc.) and the languages available to the customer.

- Top section: The language Kiosk 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 Kiosk 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, and will be the default language for the end customer.

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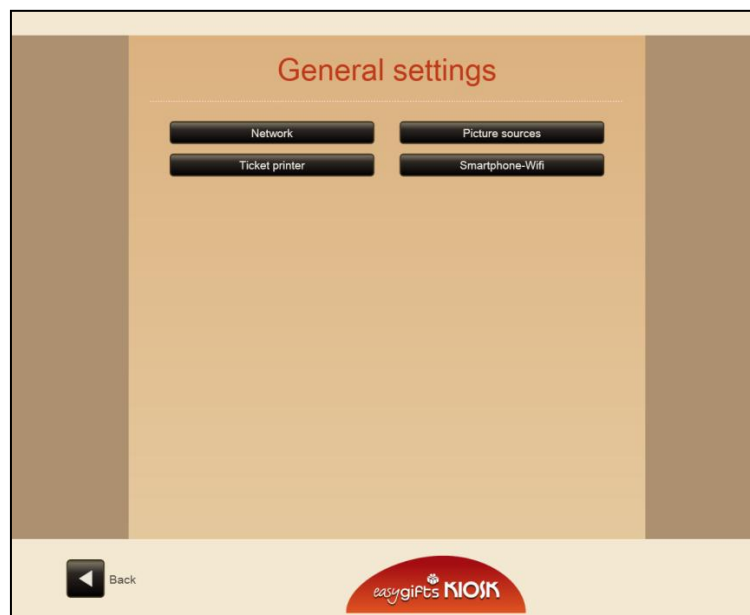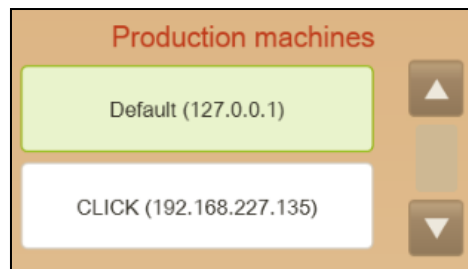
This is the screen where all the devices that may be personalised by the user can be configured: network connection, digital photo input sources and ticket printer.

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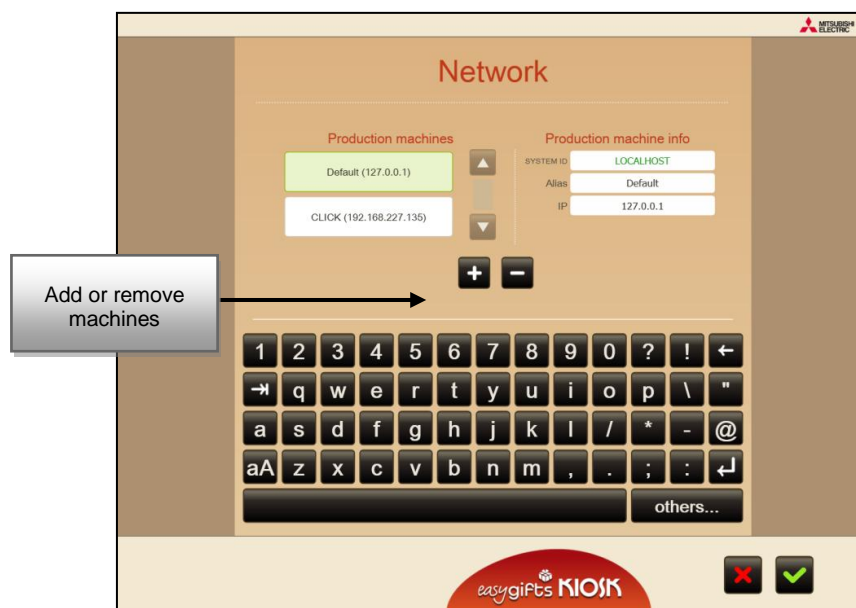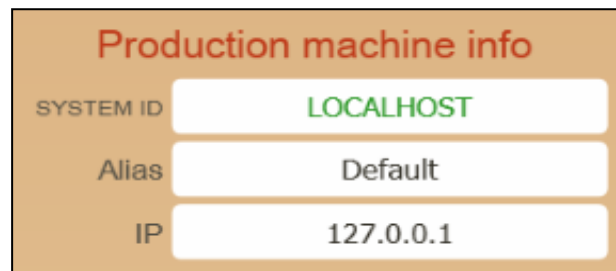
In this section you can configure any possible production machines that are going to be used in Kiosk.

On the left of the screen there is a list of Kiosk 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

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

3.1.4.2 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 flow.

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

NOTE
IMPORTANT: 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. This is clearly displayed in the Windows Explorer.

Some devices require a special configuration, as in the case of the 'Smartphone-wifi' font. Ask your dealer for information about how to configure this font.

3.1.4.3 Ticket printer

3.1.4.3.1   Print receipt ticket

You can enable or disable the printing of receipt tickets which is executed after validating the order, just as the order execution starts.

3.1.4.3.2   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.

3.1.4.3.3   Additional copies

Number of receipt copies desired, regardless of obligatory printing.

3.1.4.3.4   Ticket printer

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

3.1.4.3.5   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.

3.1.4.3.6   Validation ticket printer

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

3.1.4.3.7   Barcode settings

When this option is pressed a new screen will appear for the configuration of the barcode. This will vary depending on the type of barcode configured. The following columns are displayed on all the screens:

- Size: for each column, define the number of digits necessary to form the specified field.

- Order: for each column, define the order of appearance of the associated field in the barcode, from smallest to greatest and displayed from left to right in the barcode.

a) Order barcode.

Only one barcode appears on the ticket, with information about the order

- Application reference: parameters (size and location) of the custom application reference which may appear on all the printed order barcodes. A description of this parameter is given below. Custom digits: parameters (size and location) of any potential custom digits you want to add to the barcode. An explanation of this parameter is set out below.

- Amount: parameters (size and location) of the total amount of the order.

- Additional digit value: this is optional and can be used for any additional value required by the store. The length must coincide with the one indicated in the 'Custom digits' parameter.

- Application reference value: this is optional and similar to the preceding one, for the purpose of identifying the global Kiosk concept in the store's accounting records. The length must coincide with the one indicated in the 'Application reference' parameter.
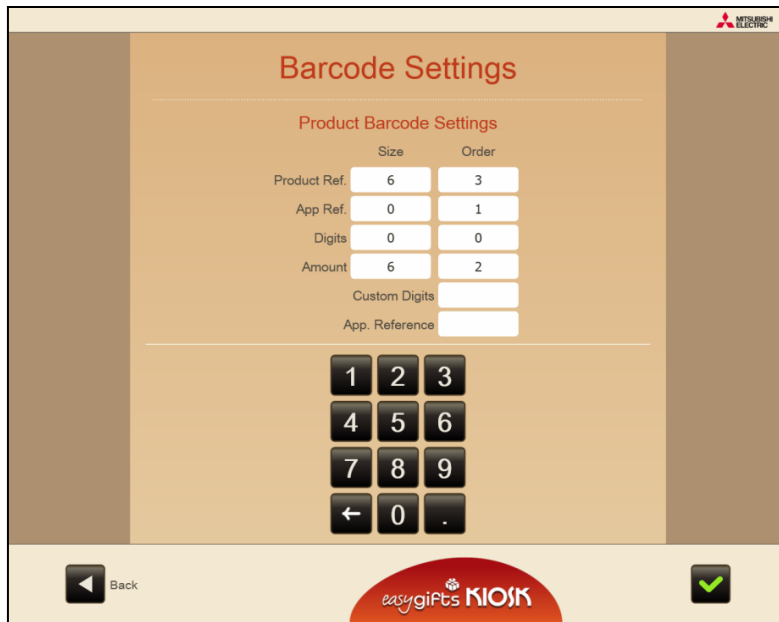
b) Product barcode. The ticket has the same number of barcodes as the products ordered by the customer.

- Product reference: parameters (size and location) of the product reference that may appear in all the printed product barcodes. Depending on the service, the specific product reference value is entered in the prices or products configuration screens.

- Application reference: parameters (size and location) of the custom application reference that may appear in all the printed product barcodes. An explanation of this parameter is given below.

- Additional digits: parameters (size and location) of the potential custom digits to be added to the barcode. An explanation of this parameter is given below.

- Amount: parameters (size and location) of the total product amount.

- Additional digit value: this is optional and can be used for any additional values required by the store. The length must coincide with the one indicated in the 'Custom digits' parameter.

- Application reference value: this is optional and similar to the preceding one, for identifying the global Kiosk concept in the store accounting records. The length must coincide with the one indicated in the 'Application reference' parameter.
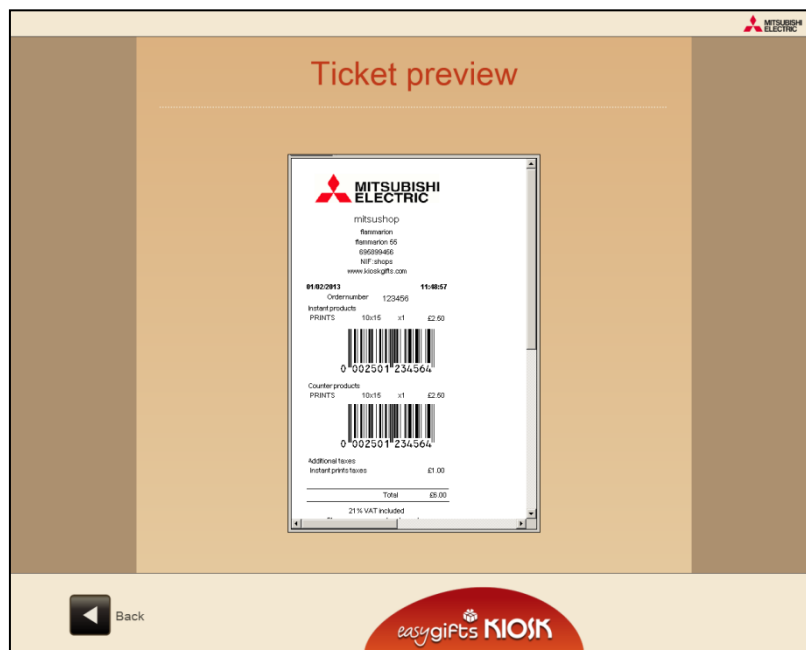
c) Product reference. The ticket contains numerical codes for each product and the order barcode. The configuration is therefore the same as that of the order barcode, with the added parameter 'Product reference', where the length of this number that appears below each product in the receipt is specified.

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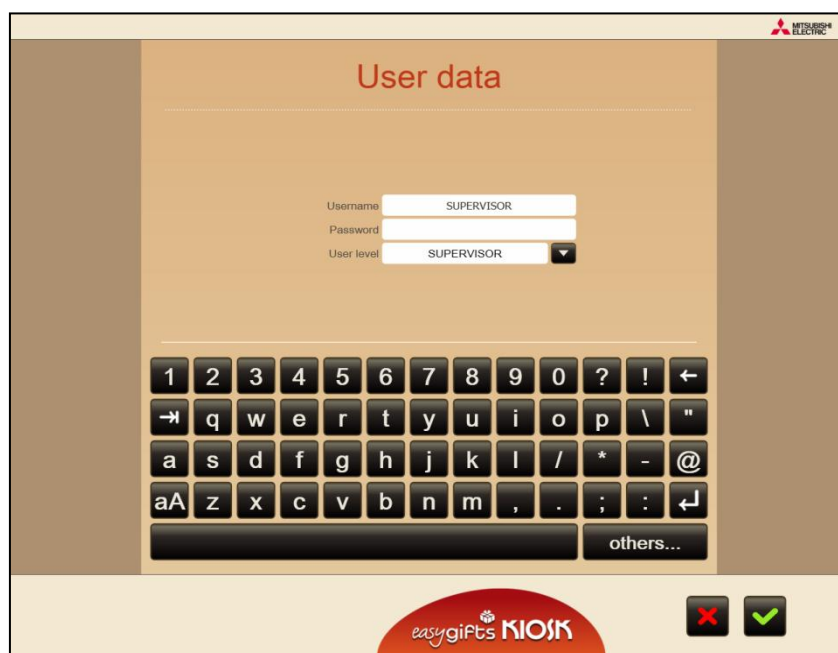
Screen showing the ticket preview, exactly as it will appear when printed. The information on this ticket will vary according to the defined parameters.

3.1.5 Users

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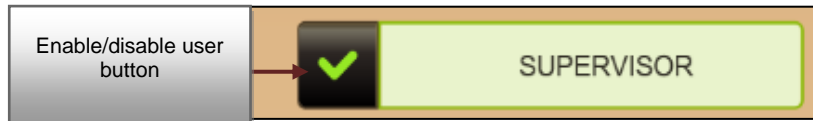
3.1.5.1 Modify users

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

3.1.6 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€

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.

4   Common work flow for the end customer

Although Easygifts Kiosk 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.

4.1 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.

4.2 Main screen

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

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 Easygifts Kiosk 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.

4.3 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
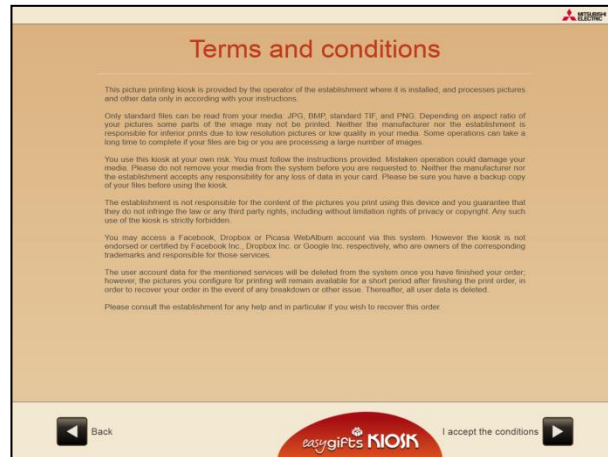
4.4 Choosing the photo source

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.
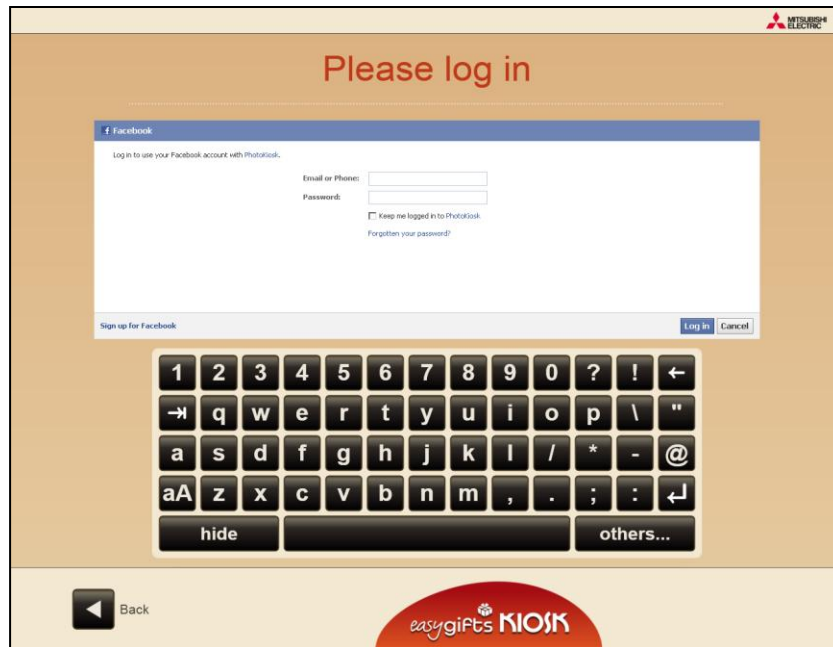
NOTE
When the files are read from a physical device connected to the system, there's a process that controls the premature extraction. When this happens, the user is asked to introduce the device again. If the user doesn't respond after some time, the screensaver is activated and the application goes back to the initial screen. When it's required to go to first screen immediately, it's possible to do by clicking in the top corners of the screen.

NOTE
The different platforms associated with the Internet for obtaining photographic albums belong to third parties and they may cease to be compatible with the Kiosk software without notice. The Kiosk software manufacturer declines all liability for the consequences of such changes with respect to the services provided at any time.

4.4.1 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.
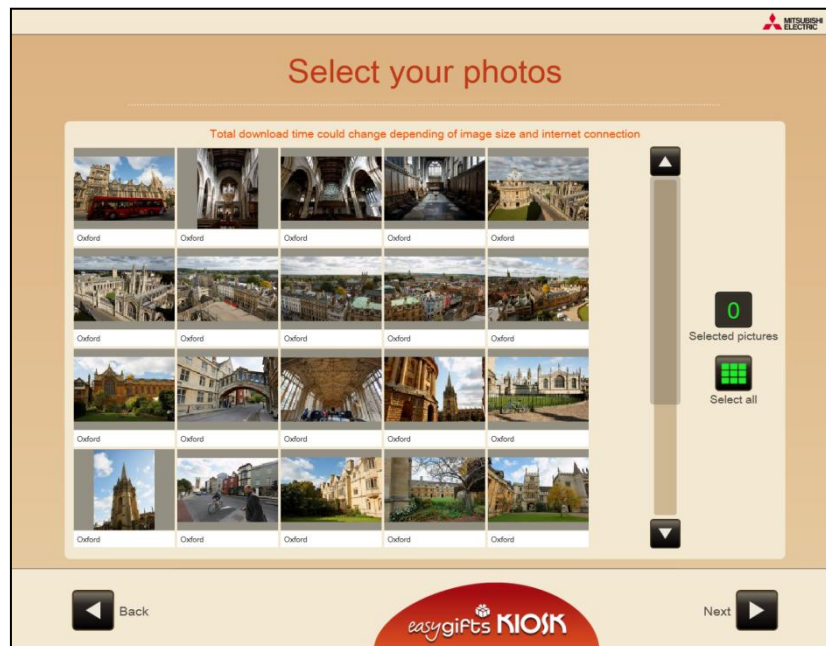
In the next step, all selected photos are downloaded in the original size as they are stored on the network. In the case that a large number of photos is selected, the download process may take some time. In order to keep users informed, a progress bar indicating the number of photos downloaded up to that point is displayed.
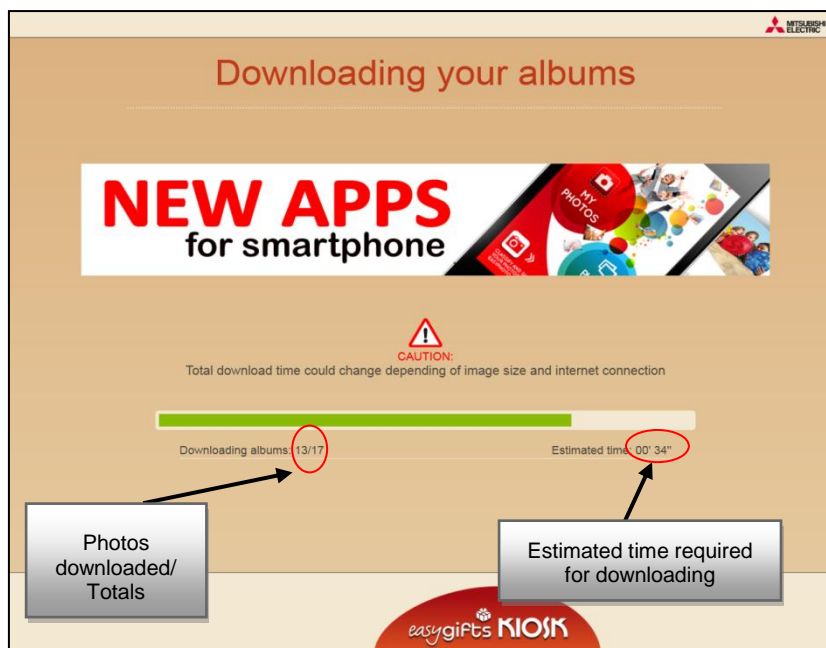
If this process is too slow, either due to an excessive number of images or slow internet connection problems, it is possible to cancel the download from standard access of the operator screen (by clicking on the two top corners).

4.5 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.

At this point the customer is informed about the minimum and recommended number of images he will need to execute the service.

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.
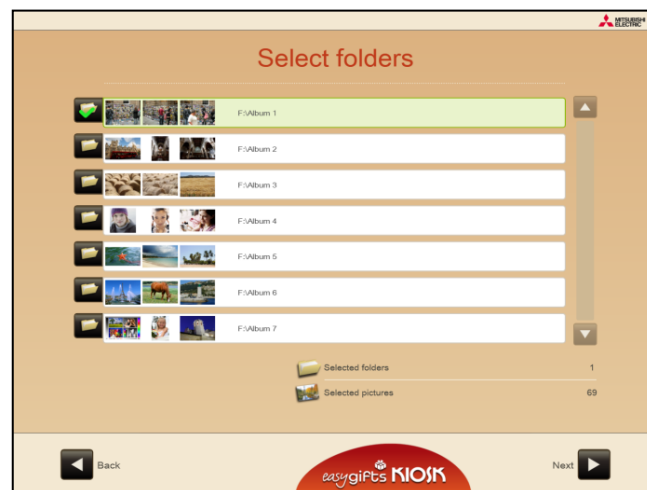
If the option to select by date is chosen, a summary of the photos modified on the same day will be displayed with a sample of content.

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
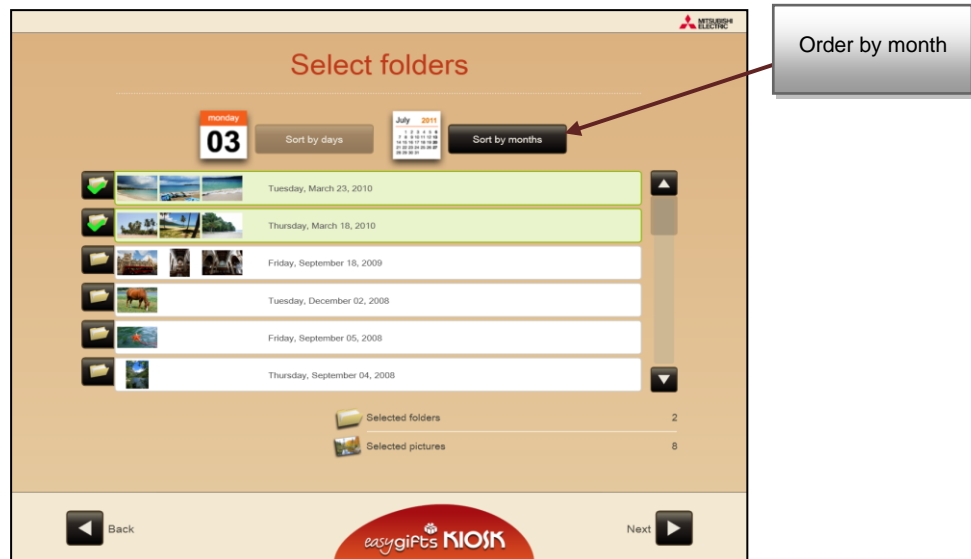
4.6 Service processing

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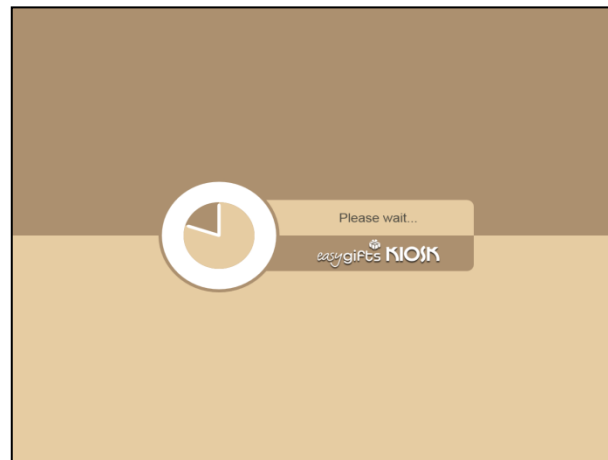
Depending on the service selected, different screens that are directly related to the processing of the different products will start appearing.

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

4.7 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.
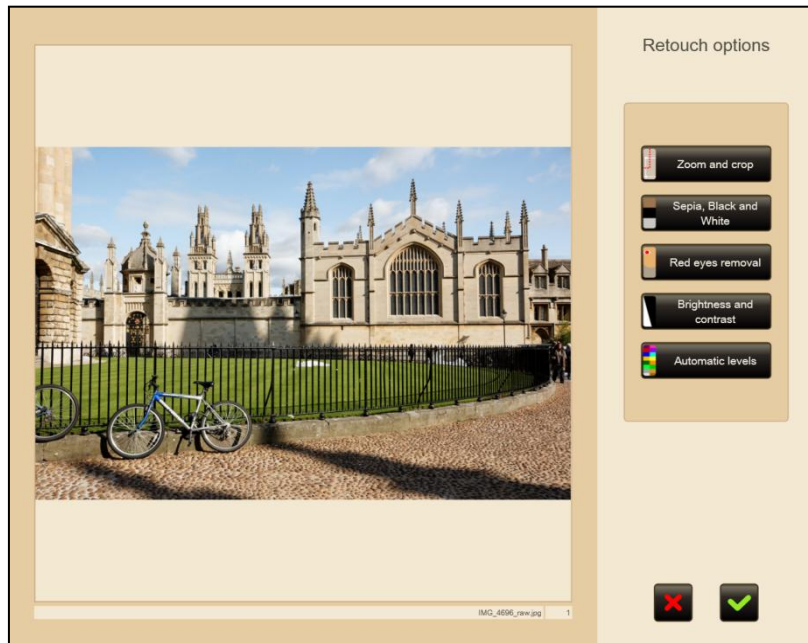
4.7.1 Red eye reduction

When you press 'Red eye reduction', the following screen will appear:
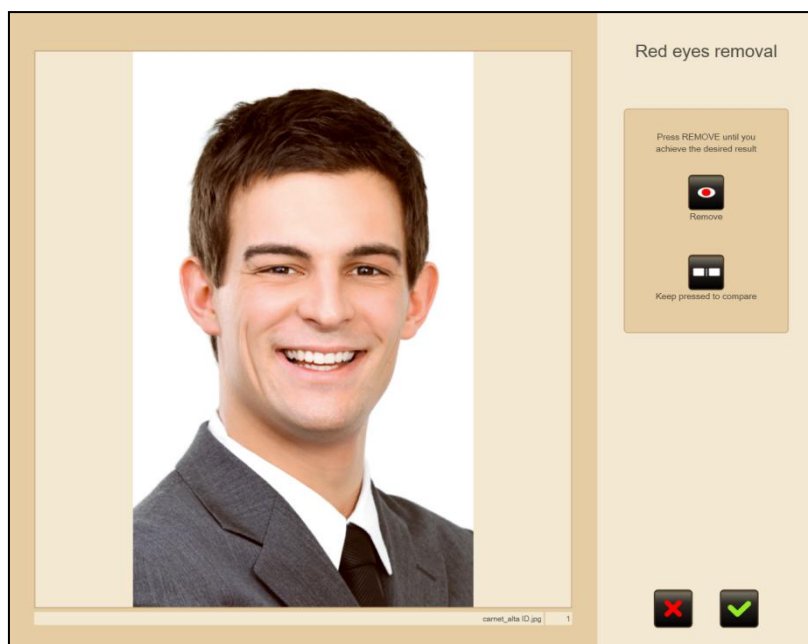
To remove red eye effects:

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.

4.7.2 Brightness and contrast

When you press 'Brightness and contrast', the following screen will appear:
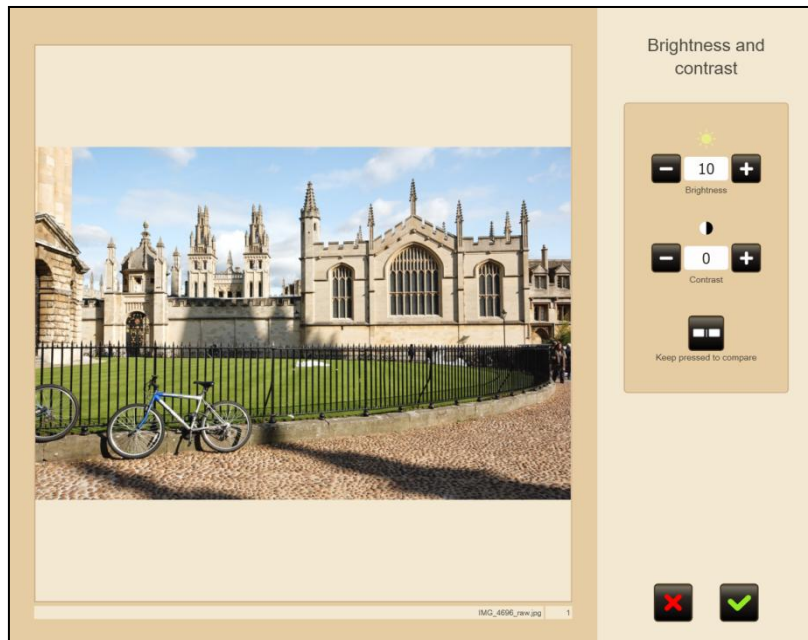
To increase or reduce the effects of brightness and contrast:
1. Press the '-/+ brightness' button.
2. Press the '-/+ contrast' button.
    ▶ Press the 'Keep pressed to compare' button to show the original unchanged image.
3. Click on the green tick to save the changes.
- Click on the red cross to leave the image as it was and exit the screen.

4.7.3 Sepia and black & white

When you press 'Sepia, black & white', the following screen will appear:
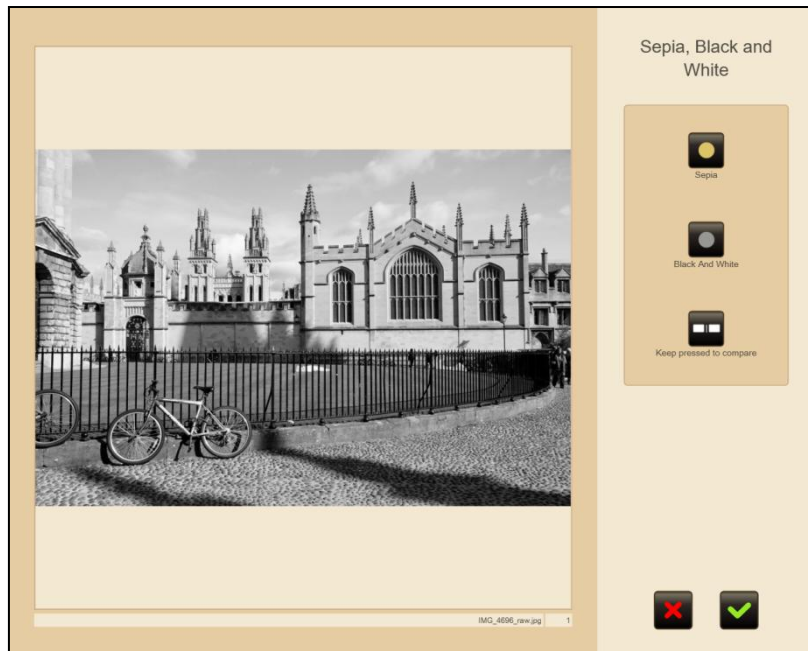
To convert an image into a black & white picture:
1. Press the 'Black and white' button.
   ▸ Press the 'Keep pressed to compare' button to show the original unchanged image.
2. Click on the green tick to save the changes.
- Click on the red cross to leave the image as it was and exit the screen.

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.

4.7.4 Automatic level

When you press 'Automatic level', the following screen will appear:
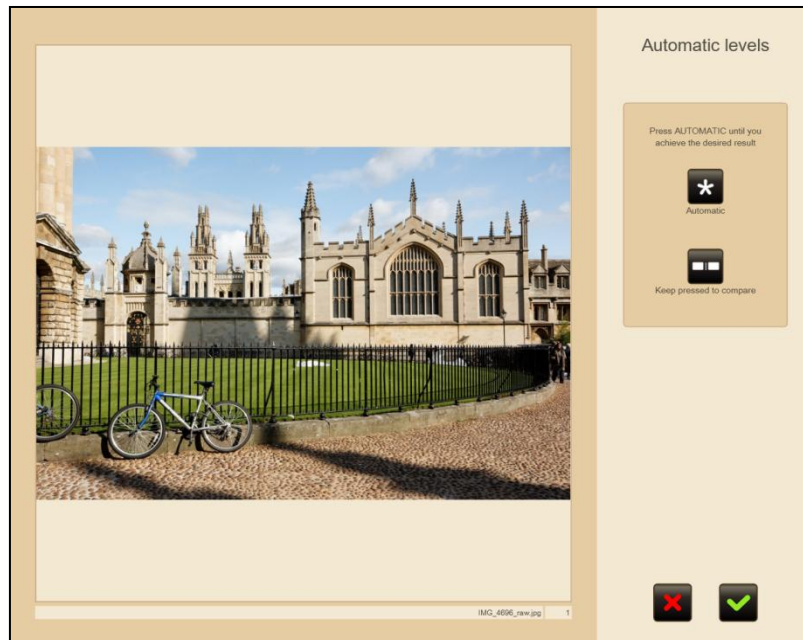
To automatically improve the image:
1. Press the 'Auto' button.
    ▶ Press the 'Keep pressed to compare' button to show the original unchanged image.
2. Click on the green tick to save the changes.
*   Click on the red cross to leave the image as it was and exit the screen.

4.7.5 Zoom and Crop.

When you press 'Zoom and crop', the following screen will appear:
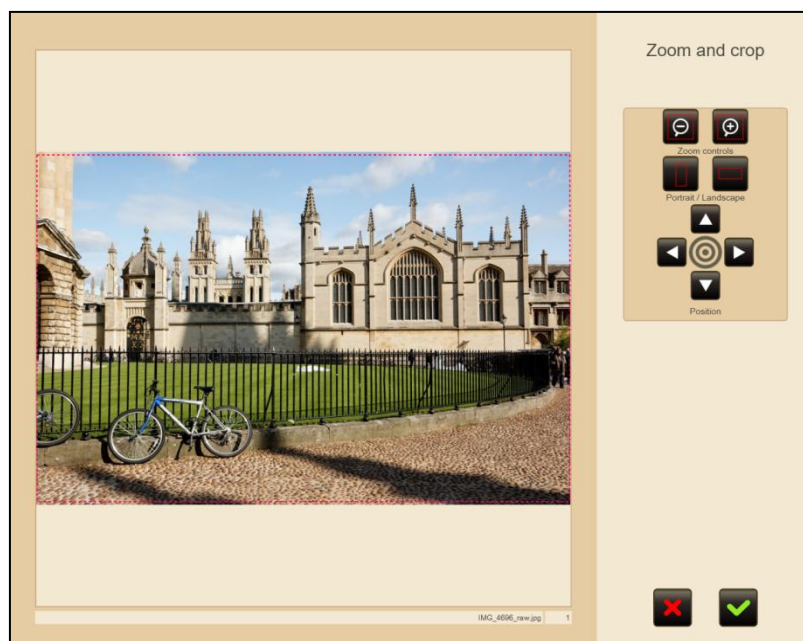
To make the image larger or smaller:
1. Use the arrows to select the part of the image you are interested in.
2. Press the '-/+ zoom control' buttons.
3. Click on the green tick to save the changes.

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.

4.8 Automatic image enhancement

The user can then decide whether or not to apply automatic enhancements to the photos. He is shown one of the photographs (after an automatic selection process) to allow the user to compare the result after applying or not applying the changes.
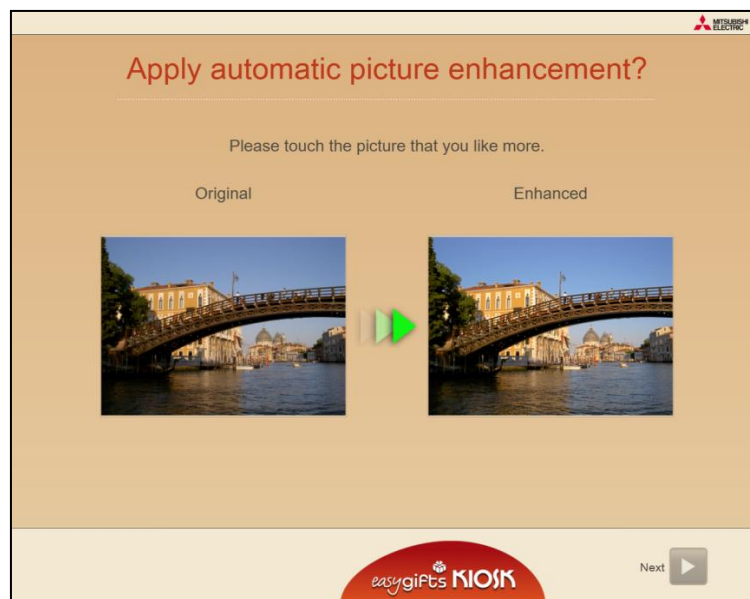
4.9 Choosing the finish

Depending on the equipment configuration and the product selected, a question will appear about the type of finish required, giving the option glossy or matt paper.
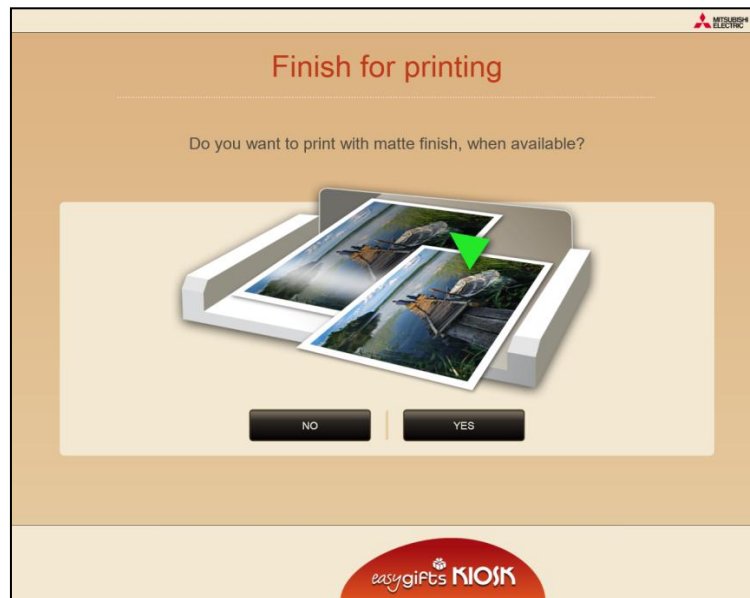
4.10 Order summary

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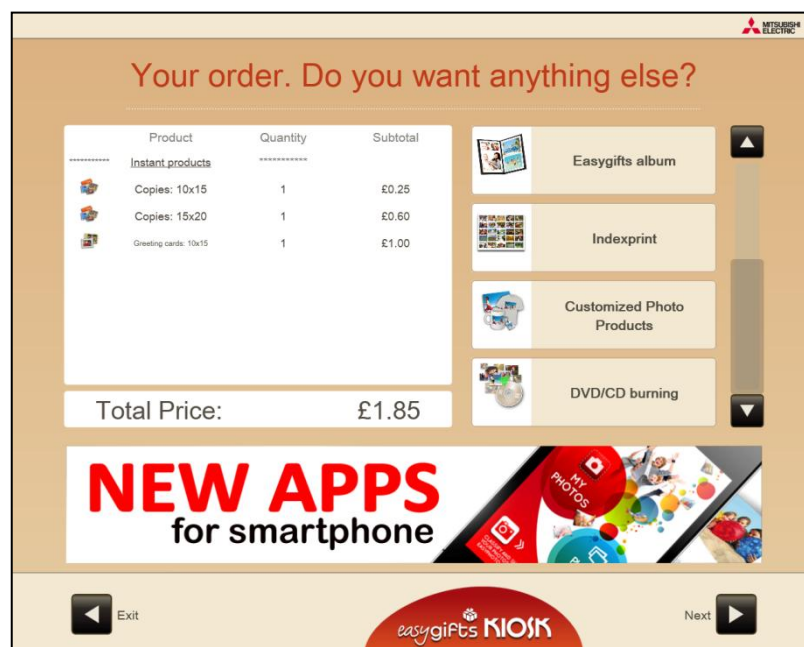
This screen informs customer of the active services in the machine so that he or she may select them for the images that have previously been selected.

When you click on any of these services, Easygifts Kiosk 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.
Some services do not permit products to be accumulated, and so they will not be shown in this screen if they have already been used in the current order.
Some services do not allow different products to be accumulated in the same order either.

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.

4.11 Copy of files and rendering of service

Then a temporary copy is saved on the disk, with all the images required to execute the services and the basic pre-production render when this is required by the application.
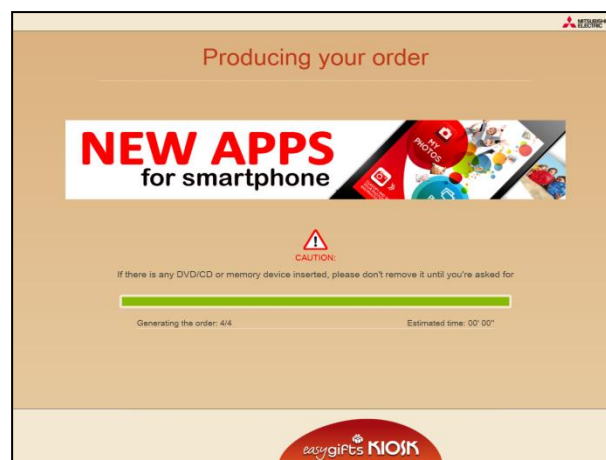
4.12 Removing the device

Once the above process has been completed, the customer is informed that he can remove the digital image device if one has been used, for instance a memory card, a flash drive, a DVD/CD device, etc. The system will wait until there is no device inserted and then continue to the next screen.

This step allows the customer to recover his device before leaving the Kiosk, if payment is required before validating the order.
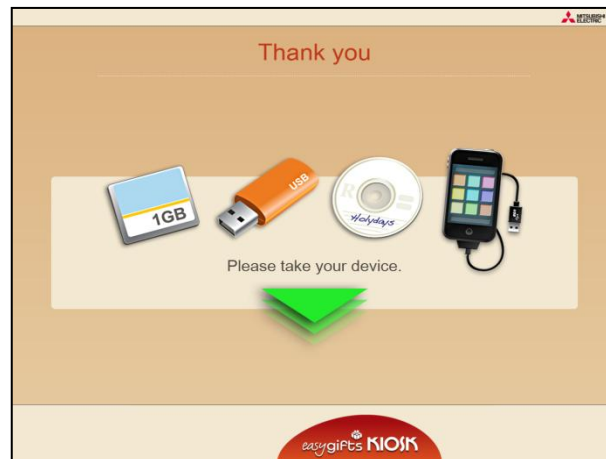
4.13 Printing of receipt ticket and validation screen

An order receipt ticket is then printed.

If the equipment is not configured in the stand-alone mode, it will skip all the following steps until it reaches the last screen.

Otherwise a screen will appear for the operator to enter his/her password.

In this screen the customer is asked to go to the counter and pay for the order, so that the operator can then validate its execution either remotely through a wireless keyboard or by going to the equipment and entering his/her password directly using the keyboard on the screen.

.
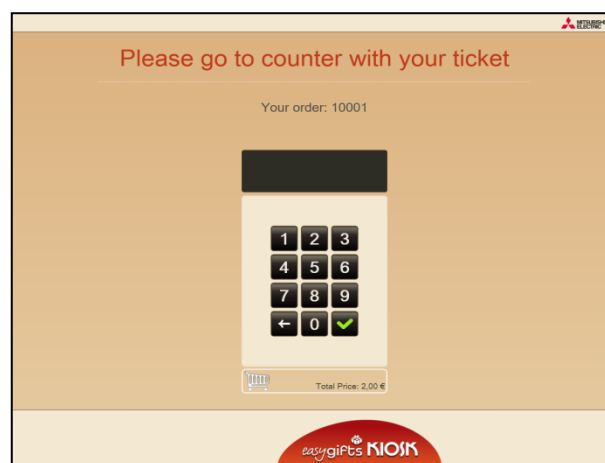
NOTE
When the asterisk key '*' on the keyboard is pressed, all characters entered up to that time are deleted. This is particularly useful if using a remote keyboard and wanting to reinitiate the password entry process.
Depending on the configuration the keyboard can be hidden on the screen to facilitate the use of a remote keyboard, as shown in the following image. Also see section 3.1.2.8.
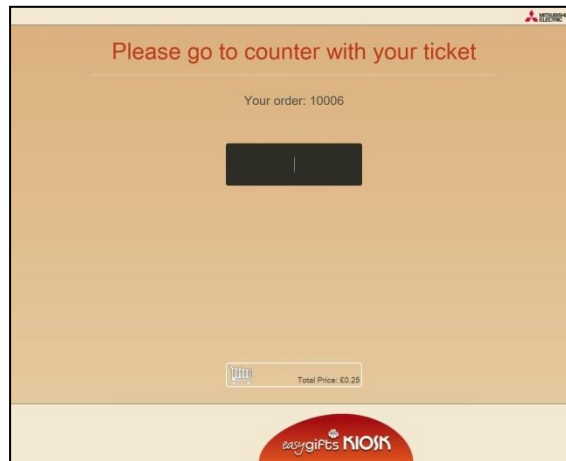
Once the correct code is entered, a ticket will be printed out with the details of the order.

4.14 Production of order

In the stand-alone mode, the equipment will start all the pending processes and issue a report on the different processes to the end customer in addition to giving an estimate of the time foreseen for executing those processes.

At the beginning of this process, the receipt ticket will also be printed out with a detail of the services to be executed. The printing of this receipt is optional and can be avoided using the configuration.
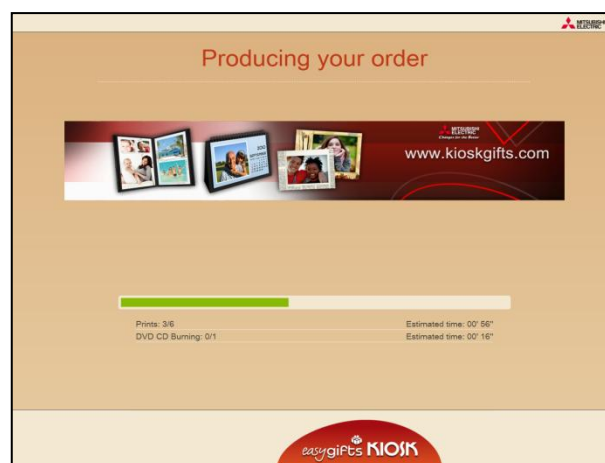
If the services involve printing on the premises, the prints will appear consecutively at the printer outlets.

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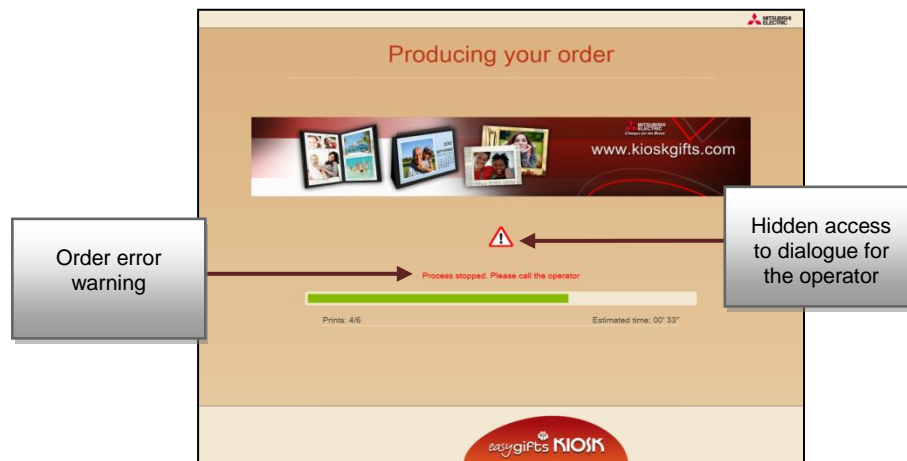
The operator will then be asked for his or her password. Once entered, this displays a dialogue where you can choose to access the 'Dispatcher' to check the real status of the order or terminate the session to release the unit for another customer.

4.15 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.
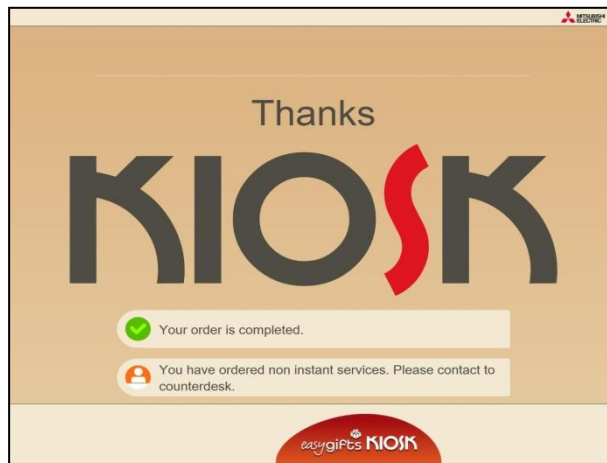
5 Available services

5.1 'Prints' service

This service enables the customer to print photographs in a wide variety of formats. The pictures can be printed at the Kiosk 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 Easygifts Kiosk 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. It maintains the 4:3 image format as seen on the digital camera screen.

- 20x25 / 20x30. The largest format offered by MITSUBISHI ELECTRIC printers

5.1.1 'Prints' service: work flow

After the customer has selected the folders on which the work is to be done, he may examine the photos 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.

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).
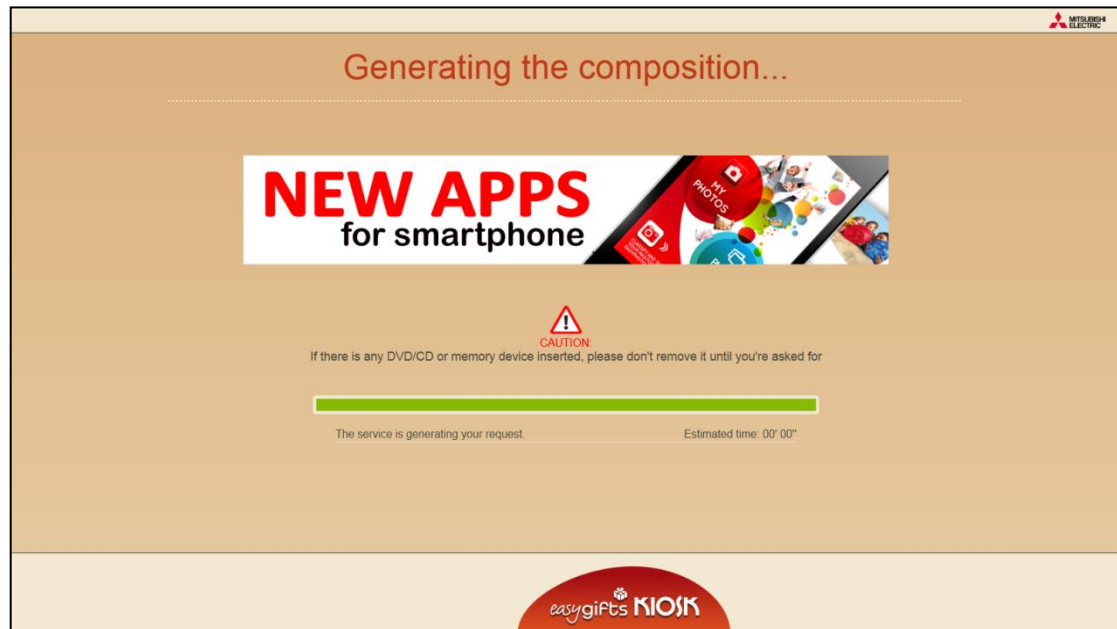
The service closes and control is returned to the main Easygifts Kiosk module, so that the customer can add more services or finish the current order, as seen in the relevant chapter.

5.1.2 'Prints' service administration: product creation

Due to the vast array of options offered by the Easygifts Kiosk, 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 Easygifts Kiosk user, will be shown.
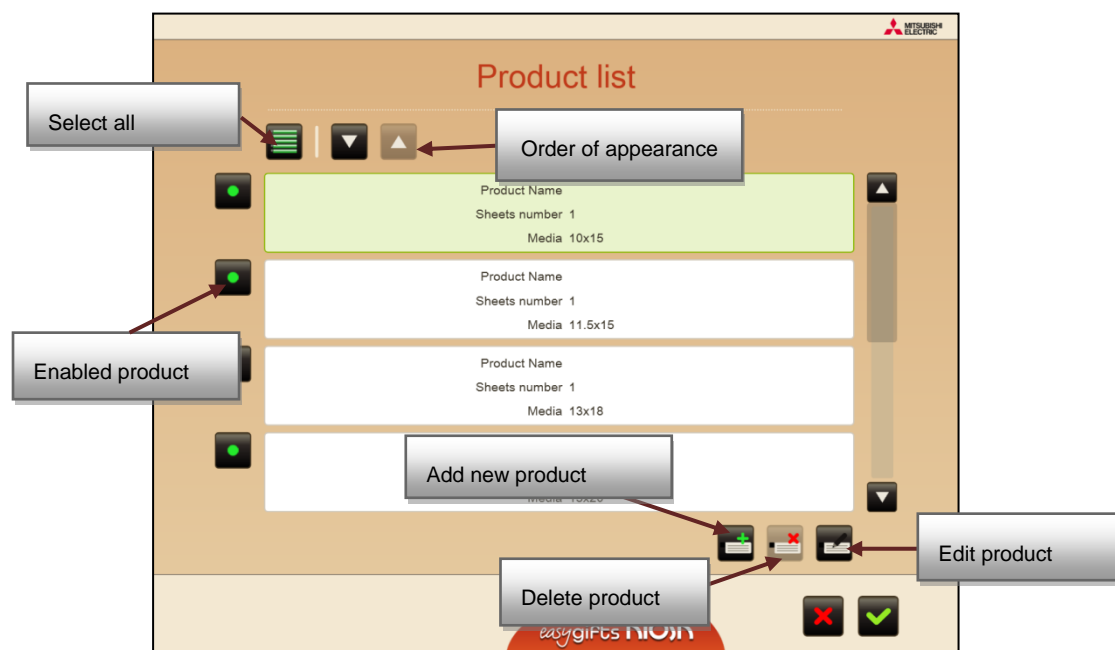
NOTE
Most of the products shown in the equipment when it is first switched on are 'protected' products defined by the manufacturer which cannot be deleted; however, some of their properties can be edited in order to adapt to the configuration of the installation. These products may no longer be available in future software updates due to the manufacturer's requirements, or even new ones may appear. In the event of not wanting to offer them to the end user, they can be deactivated.

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

- Product name (it may be blank)
- Product logotype (image)
- Printsize
- Number of sheets the product has

On pressing 'Add product' or 'Edit product' the product configuration will appear on the screen.

All the parameters included under the title 'Basic information' are repeated in all the products for every type of service. In other products from other services, another group of special parameters may appear for that type of product under the title 'Additional information' (see the Greetings, Calendars or Album sections of this manual)

'Basic information' parameters:

Product name

The product can be given a specific name. In many cases it appears blank, since a lot of products are already identified by the printsize, as is the case of the 'Prints' service.

Reference, Order

These values are for internal use.

Number of sheets

The number of sheets the product has.

Matt

The product can be printed in matt when the service is configured for this option.

Product icon

The image that represents the product.

Delivery instructions

A brief description of the product for the end customer. It is shown during the end customer program flow, associated with the product in question.

Operator delivery instructions

A brief description of the product for the operator. It may appear in product lists displayed on operator screens. It is not compulsory to complete it.

Destination machine

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

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.

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.

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.

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.).

Printing channel

The output channel (only for PRINTS type output). See the 'Printserver' Appendix of this manual.

5.1.3 '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).
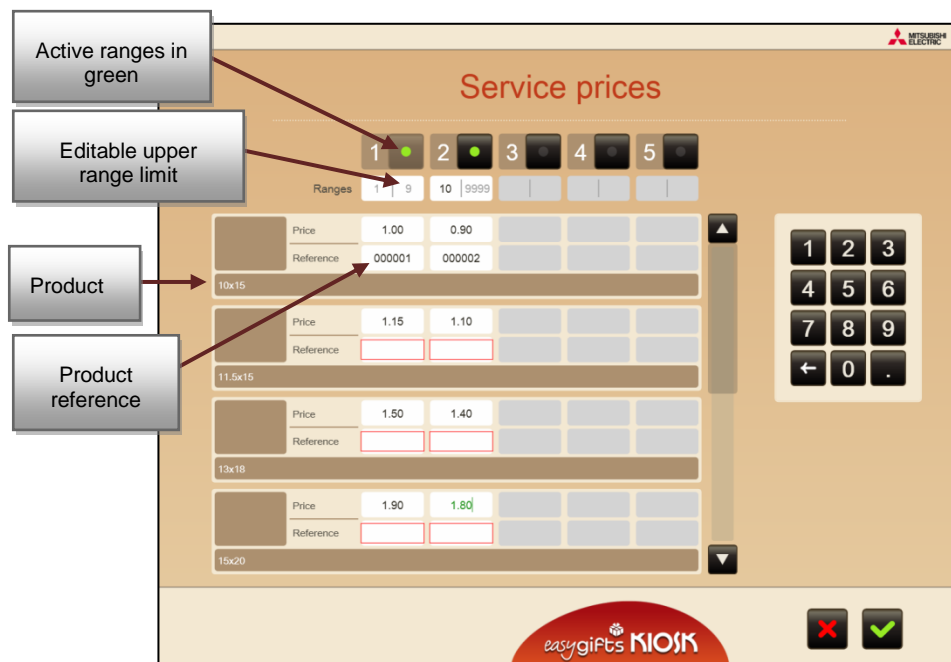
The recommended steps would be as follows:

a) 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.

b) 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.

5.1.4 'Copies' service administration: general configuration

The following parameters are allowed in the general configuration of this service:

Automatic image enhancements. There are three options:
1. This service does not include automatic image enhancements.

2. The automatic enhancements are always applied to the user's images, without giving him/her any option.
3. The user is asked whether he wants to apply the automatic enhancements to his/her images.

Multiple photo selection in the image viewer. When this operating mode is selected, it enables the user to work with groups of images in such a way that copies of a specific size for printing can be added to the whole block simultaneously, for example.

Title and instructions for instant copies and for deferred services (non-instant). In the event of purchasing the additional licenses that permit sending to non-instantaneous printing systems and the configuration of products that use those additional systems, the end user will see a screen in which to select one or the other. This configuration section permits the definition of the titles and messages for each of the options.

5.2 Instant Photo Album

Instant Photo Album is a software application that allows you to easily create MITSUBISHI 'Easygifts Instant Photo Albums'. These instant photo albums may have between 10 and 30 sheets with a size of 10x15cm.

The set of images (sheets) generated by the Instant Photo Album application will be ready to be sent automatically to the MITSUBISHI MAP instant album printing machine which can print them out and bind them in a very short space of time.

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 combinations or 'templates' that automatically distribute the photographs on the pages of the album. It is also possible to choose from among the photographs themselves or from a large range of decorative backgrounds to fill in the background on each page, as well as enter a text for the album title, thus saving the end customer considerable time in designing the album.

5.2.1 '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.

This service has no previous product selection, since it is defined automatically by the number of pages in the album and this, in turn, depends on the initial number of photos selected by the customer.

5.2.1.1 Type of background

The user can either use his/her own photos as a background of each page (the program automatically selects a photo from among the ones on the page) or choose a decorative background from various possible themes.
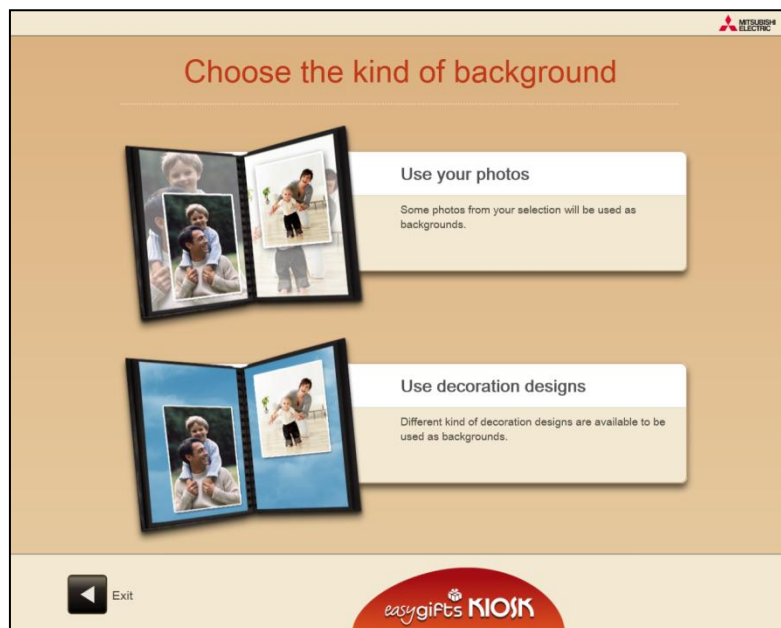
5.2.1.2 Selection of themes

If the Customer prefers to use decorative backgrounds for the album pages, he must now decide on the theme to be used. Each theme has several backgrounds which are applied at random to each page of the selected product. After pressing each theme, each of the different backgrounds in that theme are displayed for brief intervals of time.
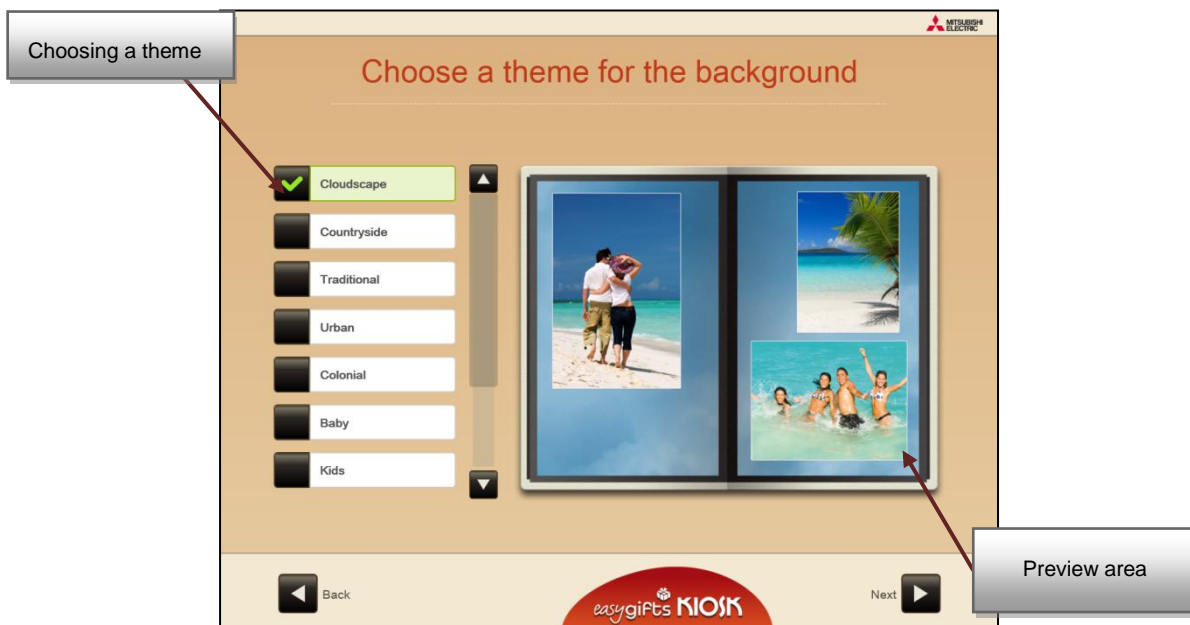
5.2.1.3 Select pictures

Once you have selected the folders that you are going to process, the following screen will appear:
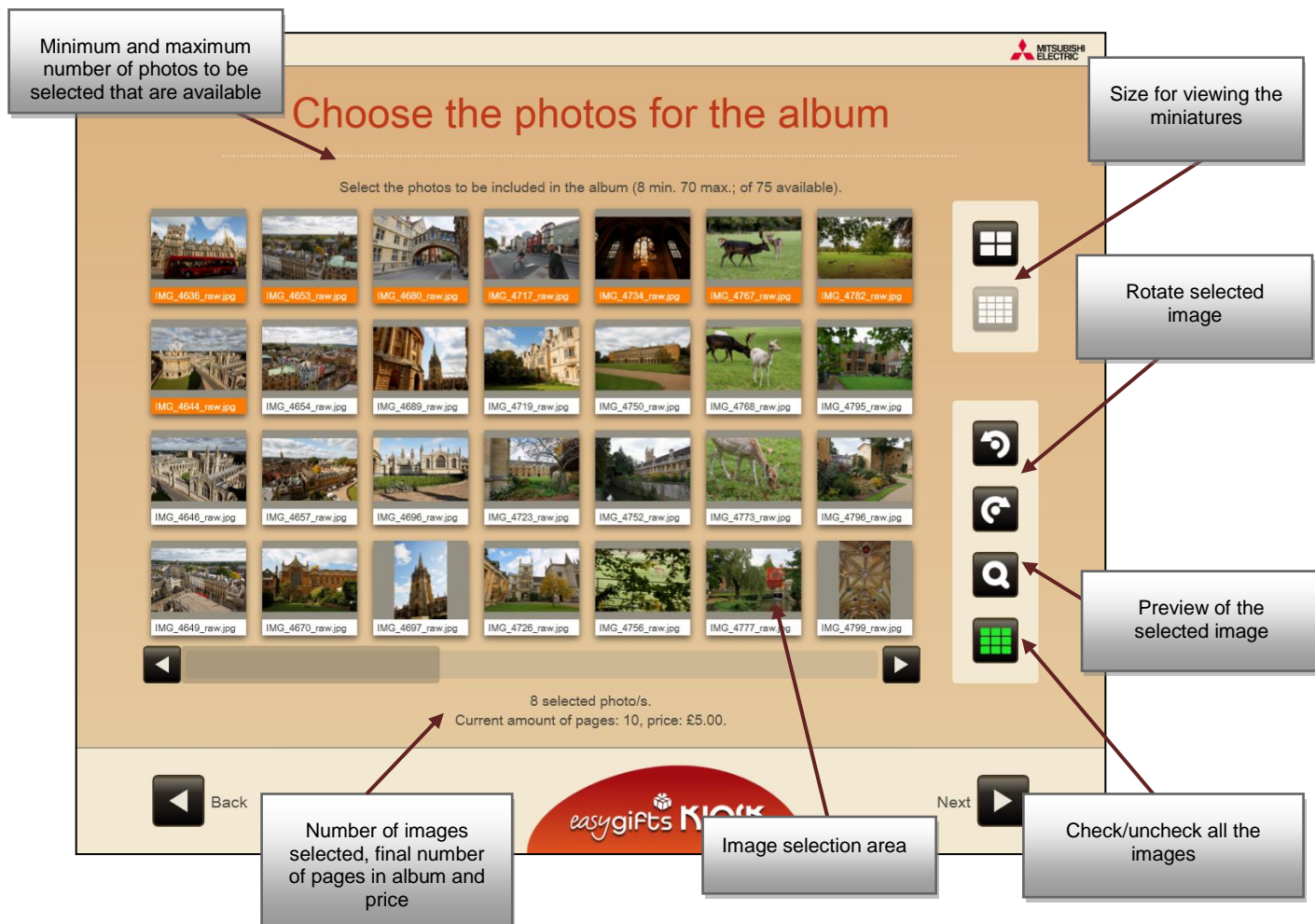
▸ The images selected will change the colour of the lower bar with the name.

To preview the selected picture in full screen mode:

NOTE
The number of images selected is indicated on the screen.
If the user does not select the minimum number of images required by the album, the lower right-hand button that allows the flow to continue will not function. A message will appear if you select too many images.
The user will not be able to continue unless he selects a number of pages that is within the limits indicated in the description that appears at the top.

5.2.1.4 Write a title for the album

The user must enter the text that will be shown in both the spine and cover of the album:

Title for spine and cover

Write your text here

Text for spine & cover

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...

Upper-case or lower-case

Additional characters

Back

easygifts KIOSK

Next

5.2.1.5 Cover selection

After the title has been entered, the screen for selecting the image to be shown on the cover of the book will appear.
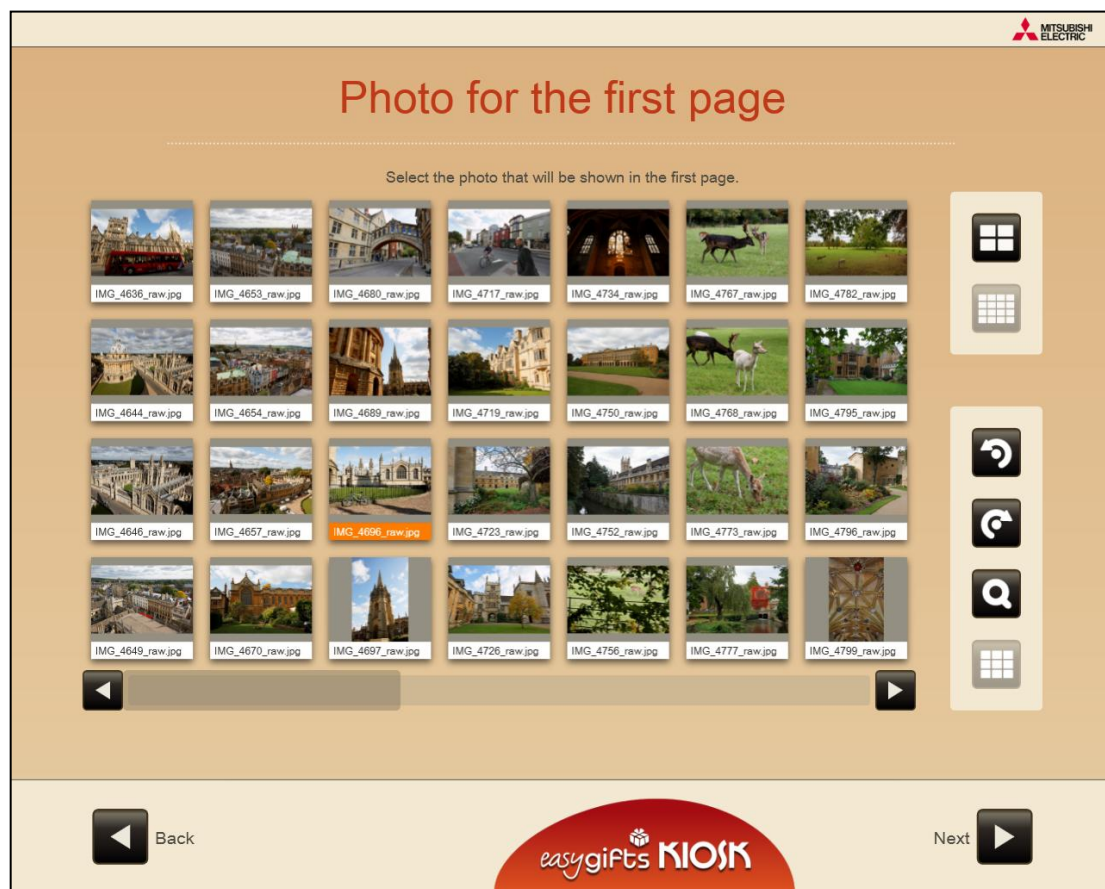
5.2.1.6 Automatic photo enhancement

If the service is configured to do this, the customer will be asked in the next step whether he wants to apply automatic enhancements to his photos.

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

5.2.1.7 Automatic composition

In this step the initial composition of the album will automatically be made with all the information that has been furnished during the previous phase.

NOTE
If it is impossible to read any of the photo files during the process, a warning message will appear on the screen and the application will automatically return to the photo selection screen for the customer to confirm that he wishes to create the album again, but without including the damaged photos, which will now appear as non-accessible.

Once this process has been completed the user will enter the edit album screen.

5.2.1.8   Preview and product editing

In the edit screen the user can make different changes to the automatically-created album. The variety of changes is limited to prevent the customer from spending too much time editing, but different options have been studied to allow the customer to always obtain an album that is to his liking within the shortest space of time.
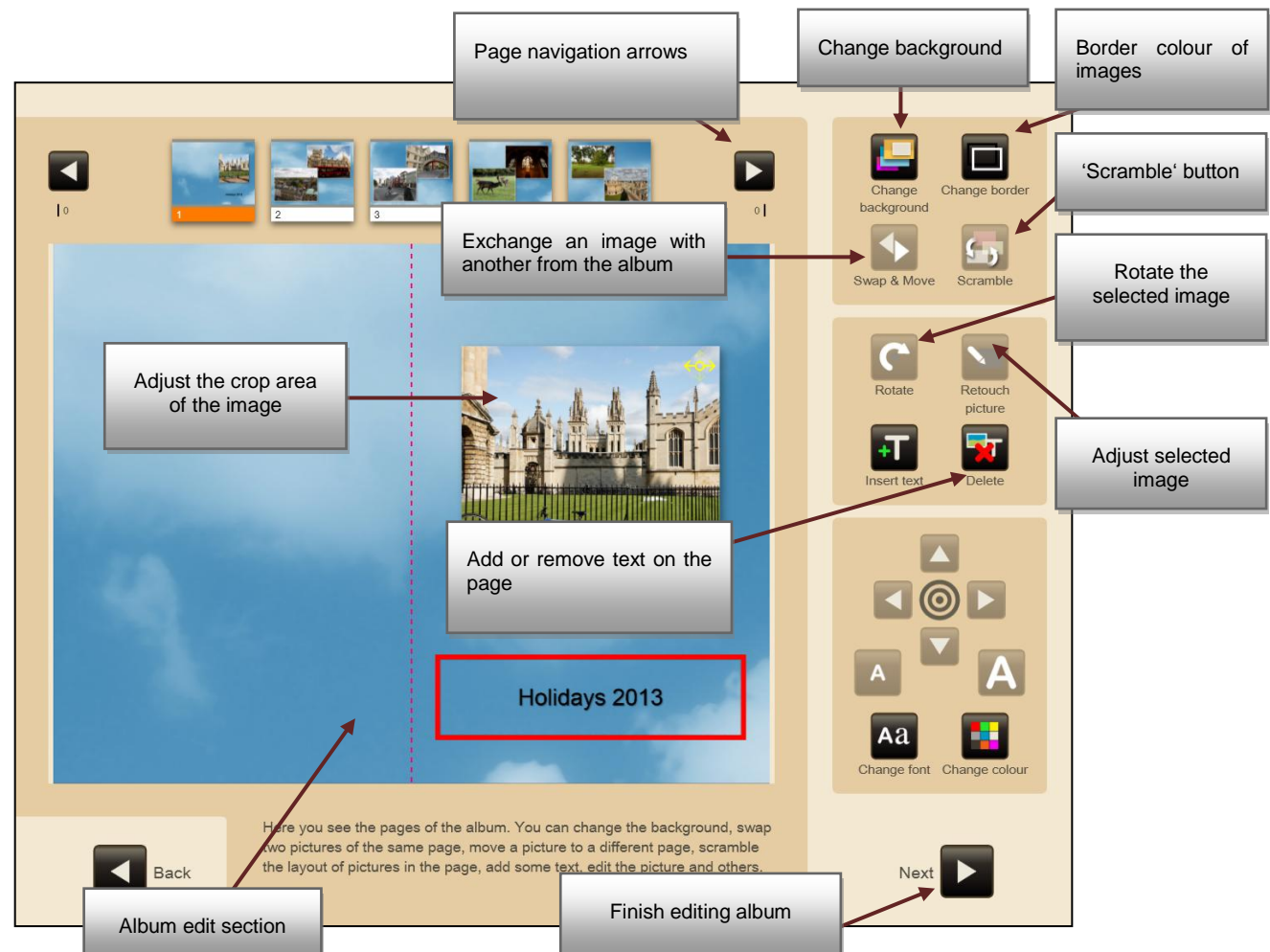
- **Framing the photo inside the rectangular area.** This can be done using the controls on the right or by touching the photo with your finger and changing its position. If the screen is a multi-touch screen, not only can it be moved but the zoom level can also be adjusted by increasing the distance between the fingers that are on the photo. This operation is known as 'pinch zoom'. If the screen is not a multi-touch screen, you can use the controls on the right to adjust the zoom level.
- **'Scramble' button.** Every time it is pressed the photos on a page are redistributed in a different way, so that you can choose from among different layouts.
- **'Delete' button.** One of the photos on the current page can be deleted and the layout of the other photos will automatically change to make up for the space left by that photo.
- **Move/exchange.** When this button is pressed two different actions can be taken:
  - You can drag a photo to another on the same page in order to exchange them.
  - You can move a photo from the current page to another page. To do this, move the photo to the top and release it on the required page. On releasing

it the change will be made and the layout of the photos on the original and destination pages will also be changed.

- **Change background.**

- **Change frame.**
- **Rotate.** Rotate the selected photo.

- **Retouch photo.**
- **Add Text.** When text is added, additional tools appear for changing its position, changing the font size, changing the type of lettering and changing the colour.

5.2.1.9 Order summary

Once you have approved the product changes, the following screen will appear:
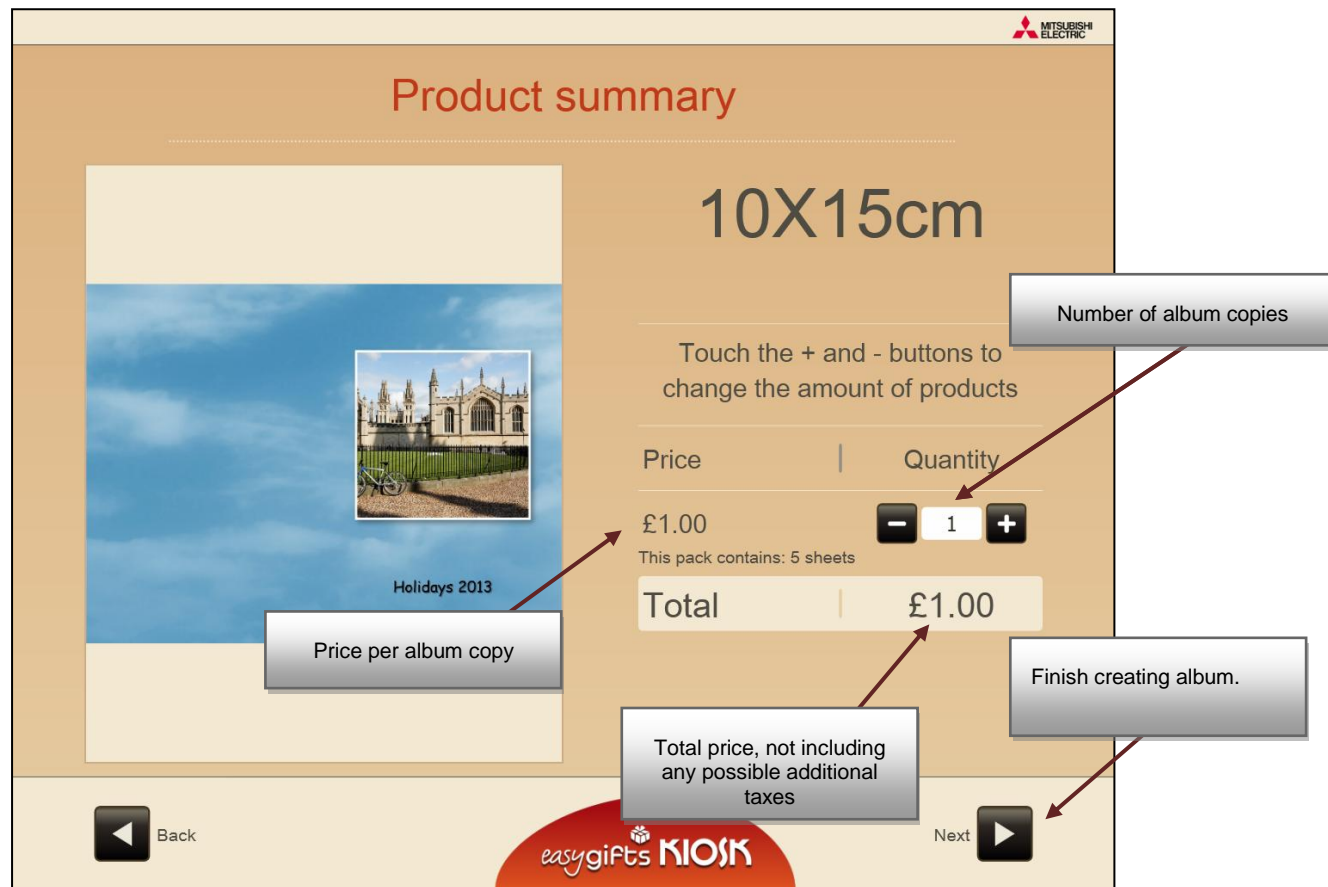
If you have installed a ticket printer, a note will be printed out with the order details.

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.

5.2.2 'Instant Photo Album': working with DPSLAB and MITSUBISHI ELECTRIC M.A.P. printer

In order to produce Instant Photo Album products, it's required to use the M.A.P. printer together with the Easygifts Kiosk related applications, available with the basic software installation package.

Below the different stages of the instant photoalbum production are detailed.

After the Easygifts Kiosk main application has created an album order, this one will be managed by the DPSLAB application, together with the M.A.P. internal software and hardware.

This is the basic workflow of the Instant Photo Album orders:

1. The order is sent to the Dispatcher core application, that keeps the orders cue and waits for their validation.

2. Once the order is validated (by somebody in the shop or any automatic process), the DPSLAB software module takes the 'request' and processes it. An order is divided into several 'requests' depending on the different services and products composing this order. The 'request' enters the status 'PROCESSING', as it can be seen in the Dispatcher interface. Since then, the order is in batch executing mode (when using the default configuration). This means that the order will be managed in background, while the system can handle other tasks, like attending the next customer, for example.

3. Only when M.A.P. is ready and it's not busy producing another 'request', DPSLAB sends the current 'request' to the M.A.P.. The green led located in front of M.A.P. is blinking when producing an album. The 'request' enters the 'TRANSFERING' status.

   DPSLAB will accept and process simultaneously several Instant Photo Album 'request', but only one can be sent simultaneously to the M.A.P. Until this 'request' is not finished, the next one won't be sent.

   All the M.A.P orders in batch executing mode show the half progress in the Dispatcher interface after a while: this means that all their 'requests' have been processed by DPSLAB module, and they are waiting to be printed.

4. When the album is finished, the green led in front of M.A.P. stops blinking. If any other 'request' of M.A.P. was waiting in batch executing mode, it will be sent to M.A.P. and the new album will start printing.

When a foreseeable incidence occurs in the M.A.P. machine, like when it runs out of inksheet, paper or glue, the DPSLAB keeps the current 'request' in production continuously, checking its status every 60 seconds. This means that the order appears in Batch Executing mode in the Dispatcher admin interface: the order doesn't change to error status, otherwise when being sent again to the DPSLAB the book would start from the beginning. The staff of the shop will know about the problem condition because the yellow led in front of the M.A.P. is blinking: this is the signal for the operator when the machine requires the current consumable to be replaced by a new one. When the problem is solved, changing the old media by the new one for example, the yellow led will stop blinking and the machine will go on producing the album.

When a major incidence occurs, like paper jam inside the machine, the red led in front of M.A.P is on. Also in this case, the status in the order at Dispatcher interface

remains in batch executing mode. This allows the operator to solve the issue and not to lose the current album production.

NOTE: during the album production, any error management is done by the internal M.A.P. software. The status of the order is ok for the DPSLAB software.

5.2.3 '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.

Step 4. Select the Labs service.

Step 5. Enter the Labs options menu.

Step 6. Enter settings.

Step 7. Enter password. (nothing by default)

Step 8. Select the *Specific* tab.

Print Mitsubishi logo

Print store logo

IP MAP address

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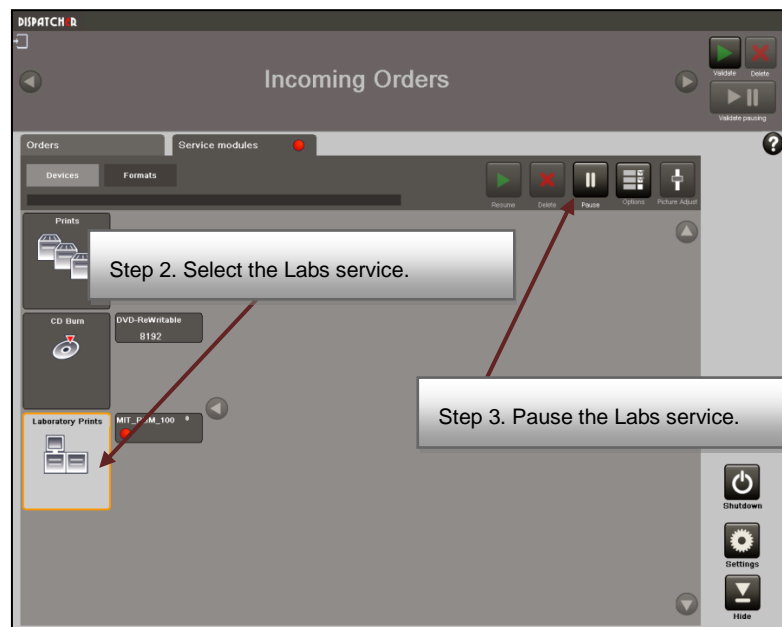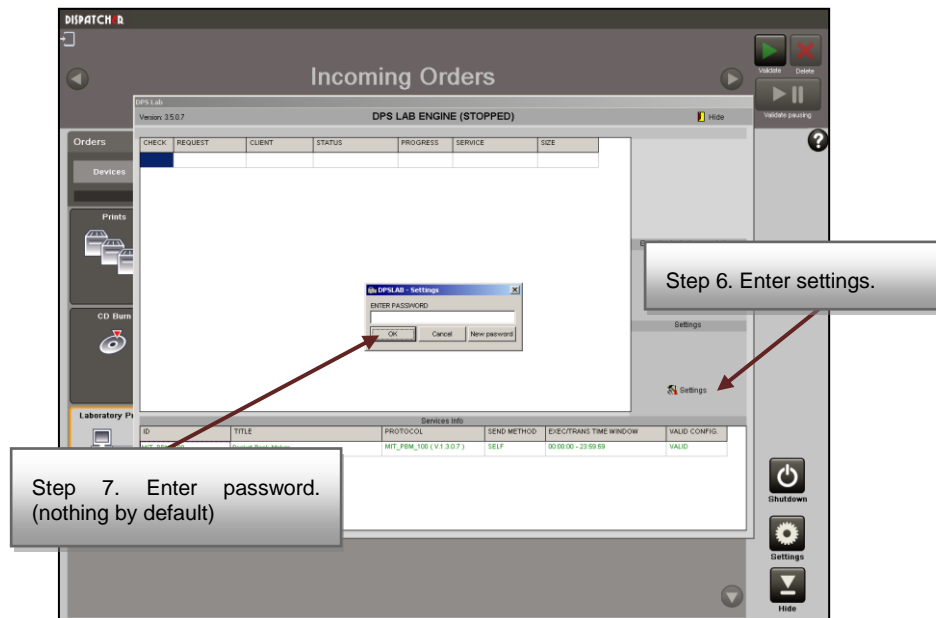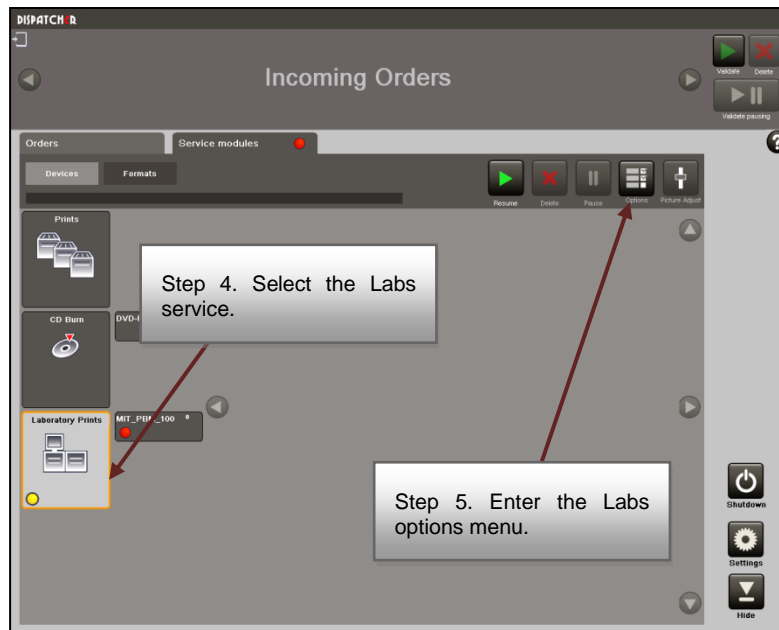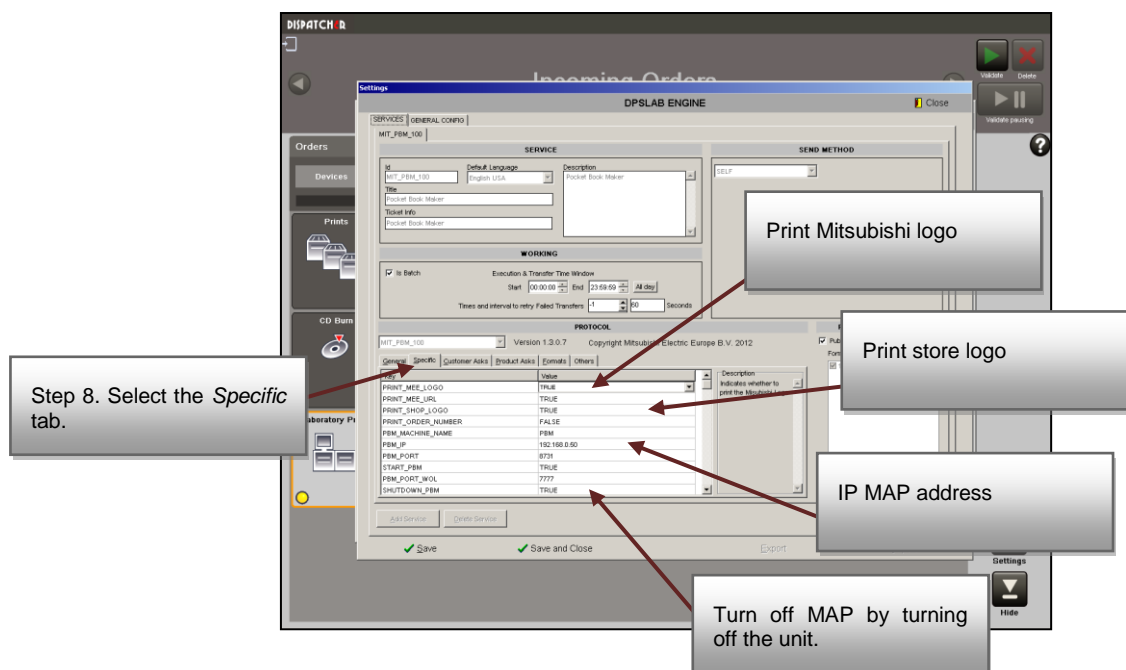
The system comes preconfigured for the Instant Photo Album service function without any need to change settings. The IP address of its Mitsubishi MAP is 192.168.0.50 by default.

Step 9. Select the *Others* tab.

Store logo:
D:\KERNEL\SERVICE_MODULES
\DPSLAB\MODULES\

Step 10. Save and exit.
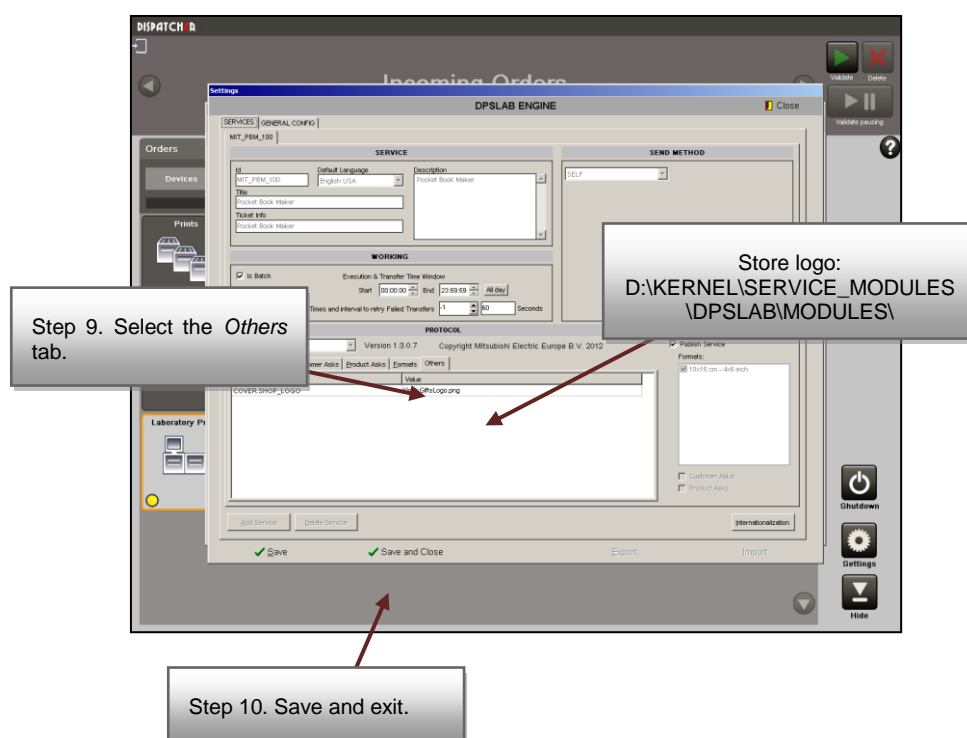
NOTE
To change these settings, a minimum technical knowledge of the unit is required. Contact your dealer or authorised service centre.

Step 12. Restart the service.

Step 11. Select the Labs service.
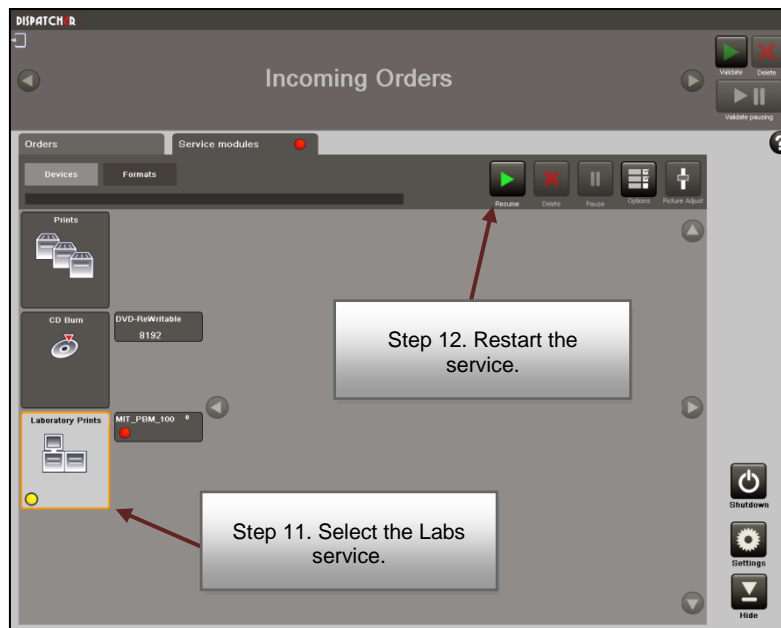
5.2.4 'Instant Photo Album' service administration: creating and editing products

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

1. Instant Photo Album service

2. Products

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 Easygifts Kiosk user, will be shown.

Use the arrow keys on the top at the left to reorder the position of the products in the list shown to the end user.

The software is configured in a pre-determined way with all the possible products. This service does not require you to add or delete products, but just edit some of their properties.

After selecting a product, press the edit button to see the basic common parameters for all the products, irrespective of the service. These are explained in the previous chapters and the specific additional information of the products for this service.

The specific properties of these products include the following. It is not advisable to change these values for this type of product:

- Orientation

- Minimum and maximum number of photos
- Layouts file: photograph layouts based on their orientation and the number of photos on each page.
- Decorative background theme routes
- Position for moving the content of the page with respect to the fold axis
- Size of the covers, which depends on the thickness of the album
- Shadowed text (default option)
- Spine text direction
- Pages with just one photo
- Use of the cover
- Thickness and colour of the photo frames

5.2.5 'Instant Photo Album' service administration: editing prices

To edit the prices of the different products, proceed in the same way as for the other services, by selecting the Instant Photo Album service in the main configuration screen and pressing the 'Prices' button.

5.2.6 'Instant Photo Album' service administration: general configuration

The only parameter to be configured generically for this service is the automatic image enhancement, which has been explained in previous chapters of this manual. It is advisable to leave this option activated, since the final result of the album will be much more attractive.

5.3 'EasyGifts Album' service

EasyGifts Album is a software application that allows you to easily create the individual pages of the MITSUBISHI 'Easygifts Album' photo book.
The 'EasyGifts Album' is an instant, customised photo book that is available in different sizes.
Ask your distributor for more information about the solution and references of the MITSUBISHI 'EasyGifts Album' product.

This service has a workflow and options that are very similar to those of the Instant Photo Album service, which is described in the previous chapter.

For this reason it is also possible to work with automatic photo layout templates on the pages of the album and have the option of adding customised texts and use the photos themselves or the pre-designed backgrounds to fill in the background on each page.

5.3.1 'EasyGifts 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.

(Since this service is quite similar to the Instant Photo Album service, the following sections of this chapter refer to the Instant Photo Album chapter sections that may be identical).

5.3.1.1 Product selection

Unlike the Instant Photo Album product, the 'Easygifts Album' allows you to choose the type of product, based above all on the different printsizes and also in some cases, on the number of pages.

After selecting the product, proceed in the same way as for the Instant Photo Album service:

- Choose the type of background

- Select the decorative theme, if required

- Select the photos to be included in the album

- Enter the text that will appear on the first page of the book

- Select the photo that will also appear on the first page

- Request the automatic correction of the photos

- Automatic creation of the album

- Album edit screen and

- Order summary screen, for the purpose of changing the number of copies of that album that are to be printed.

5.3.1.2 'EasyGifts Album' service administration: creation and editing of products

To configure the products of this service, select the 'Easygifts Album' service in the configuration screen and then press 'Products'.

The specific properties of these products include the following. It is not advisable to change these values for this type of product:

- Orientation
- Minimum and maximum number of photos
- Layouts file: photograph layouts based on their orientation and the number of photos on each page.
- Decorative background theme routes
- Position for moving the content of the page with respect to the fold axis
- Size of the covers, which depends on the thickness of the album
- Shadowed text (default option)
- Pages with just one photo
- Use of the cover
- Thickness and colour of the photo frames

5.3.2 'EasyGifts Album' service administration: editing prices

To edit the prices of the different products proceed in the same way as for the other services, by selecting the Instant Photo Album service in the main configuration screen and pressing the 'Prices' button.

5.3.3 'EasyGifts Album' service administration: general configuration

The only parameter to be generically configured for this service is the automatic image enhancement, which is described in previous chapters of this manual. It is advisable to leave this option activated, since the final result of the album will be much more attractive.

5.4 'Calendars' service

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

5.4.1 Calendars: work flow

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

The most important novelty of this service from version 2.0 of the Easygifts Kiosk software is that it is no longer necessary to update the calendar designs every year, since the information for the period selected by the user is calculated in real time each time the service is executed. In addition, it is now possible to define a different price for each product, considering that the product is defined by the printsize and the number of pages, among others, and not just by the printsize as was the case in previous versions. Thus the first step will be to select the product.
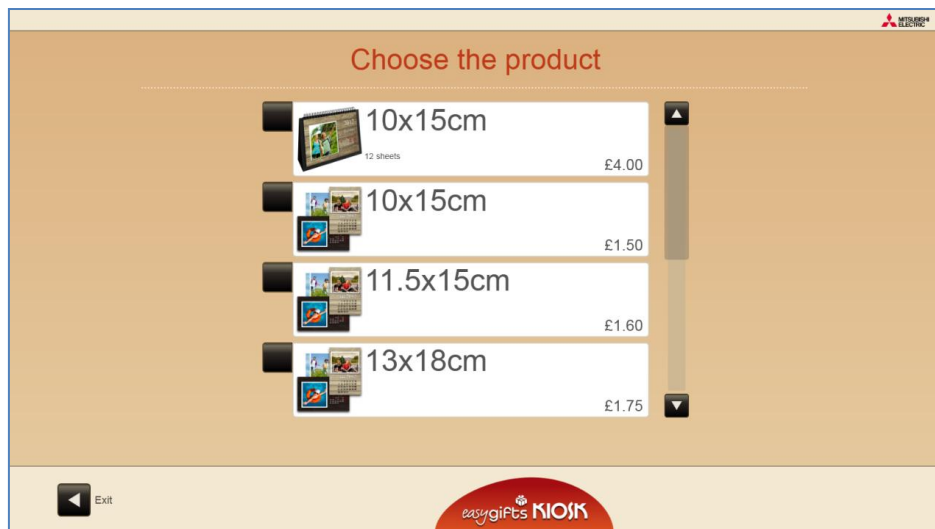
The starting month and year can then be selected.

A style and a collection of backgrounds can be selected for creating the calendar.
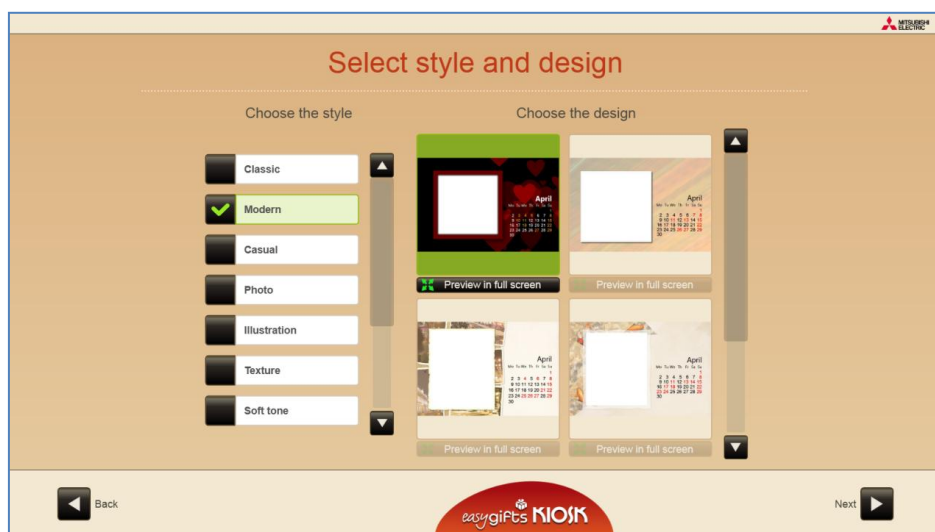
Before entering the edit screen, the information with respect to days and months is automatically prepared in accordance with the local configuration and parameters chosen by

the user (the initial year and month) and is then painted on each of the backgrounds. This process may take a few seconds.
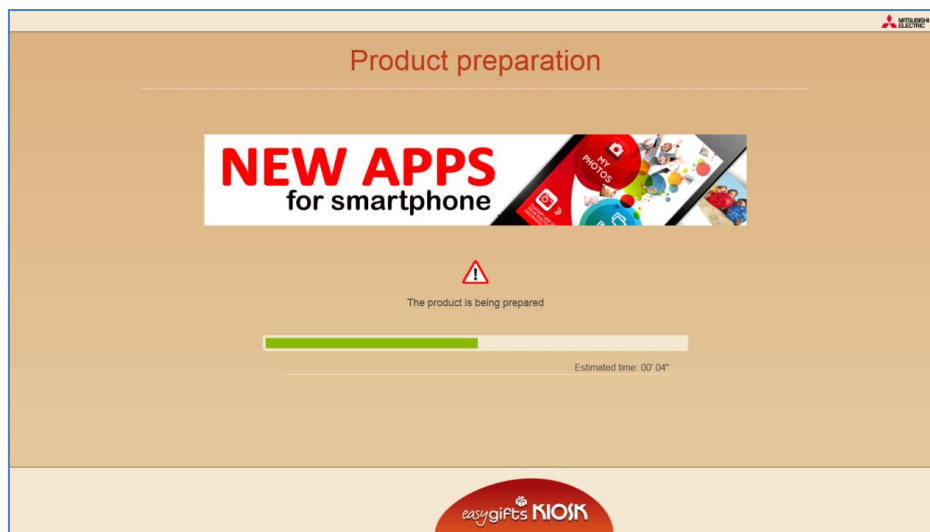
In the edit screen, different photos can be assigned to each of the backgrounds.

The size and position of the photo on each calendar leaf can be adjusted, and the photo can be edited with the habitual retouching tools.

Once the photos have been assigned to all the calendar leaves, the user is taken to the automatic photo enhancer screen, the summary of the product ordered (where several copies can be requested of the same calendar), preparation of the product to be printed and lastly the screen for starting other possible services in the same order.

5.4.2 '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.
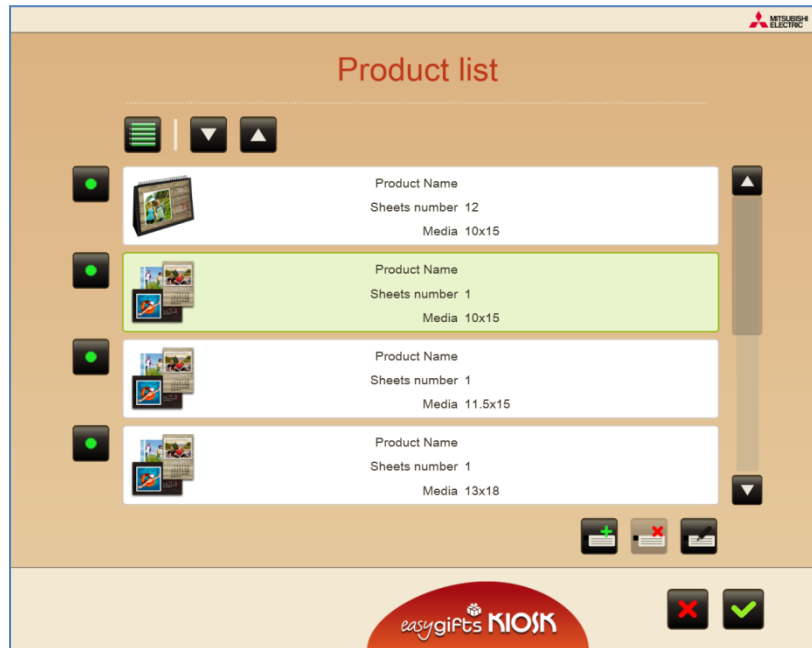
5.4.3 'Calendars' service administration: editing prices

The administration of the different prices for each product in this service is the same as that of the other services.

5.4.4 'Calendars' service administration: settings

In this section, the service is configured if it provides the automatic image enhancements and also allows the annual calendar application to be launched: local bank holidays, calendar languages, etc.

5.5 <u>DVD/CD burning</u>

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.

5.5.1 DVD/CD burning: work flow

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

After selecting the folders of the images that are to be included, the following screen will appear:
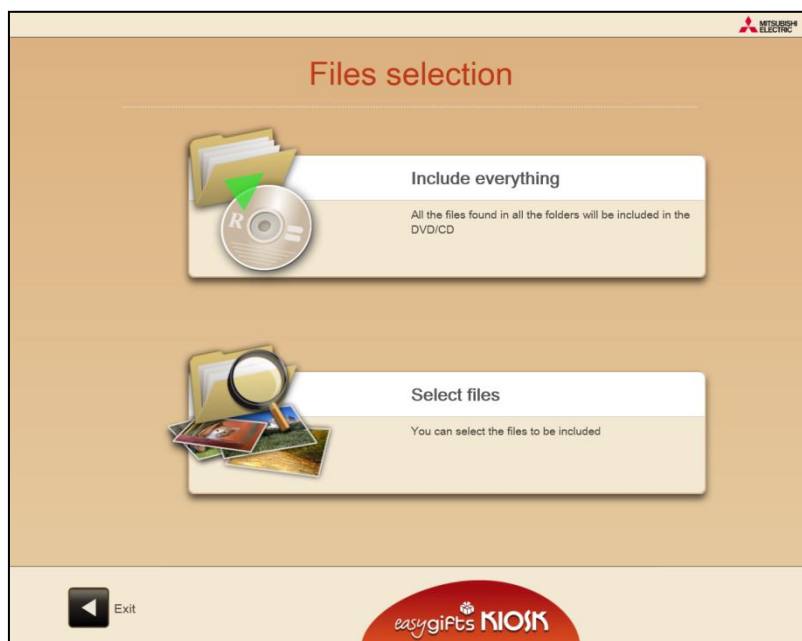
- Press 'Select all' to save all the files that are in the previously-selected folders.
- Press 'Partial selection' to select the files for inclusion.

Select photographs

After pressing 'Partial selection' the following screen will appear:

To select the pictures or files for inclusion, the user must press each one or press the 'Select all' button. Only the miniatures of files which are recognised as image types will be shown, and those that are not recognised as such will be shown with a neutral icon, although they can also be selected for inclusion in the saving operation.

As the user adds files, the space taken up by them in the carrier will be shown in the bar at the bottom which is used for the saving operation. If the capacity is exceeded, the user will not be able to add any more files.

5.5.2 'DVD/CD burning' service administration: product creation

The default parameters of the only product available belong to a standard DVD-type carrier. If carrier capacities that are higher or lower are to be used for saving, select the corresponding size in the 'Media' list.

5.5.3 '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.

5.6 <u>Greeting cards</u>

This service allows customers to create different types of products such as Christmas cards, cards for births and christenings, birthday cards, children's birthday cards, etc., and add decorative frames to their photographs and print them out in various formats.

5.6.1 Greeting cards: work flow

When you press the 'Greeting Cards' button on the main screen, this service will start. After selecting the folders with the photographs, the screen for selecting the type of card will appear.

Then the user must choose from among the different products, depending on the printsize. The price of each product is shown.

It is also possible to insert additional sentences to each product. This procedure is explained later in the product configuration section.
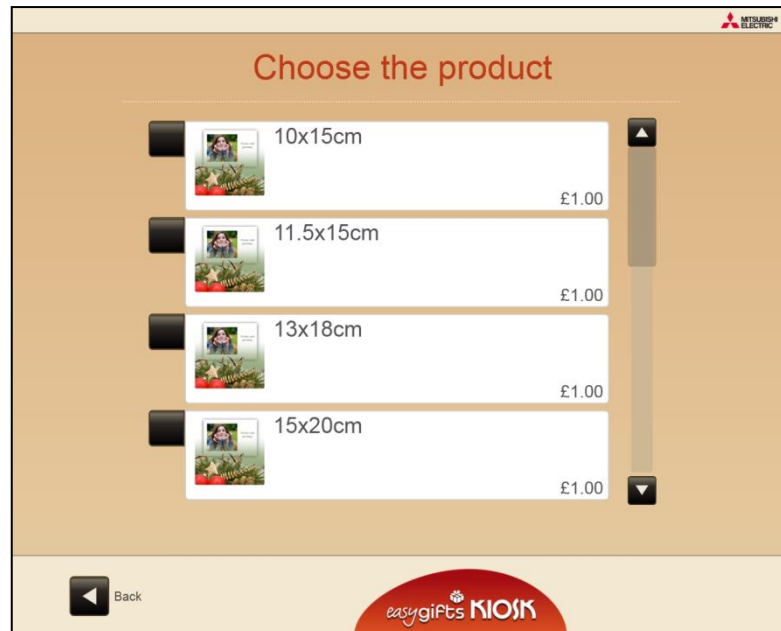
After selecting the product, the screen for selecting the available styles and designs for the product created will appear. Some of the designs may be repeated in different styles.
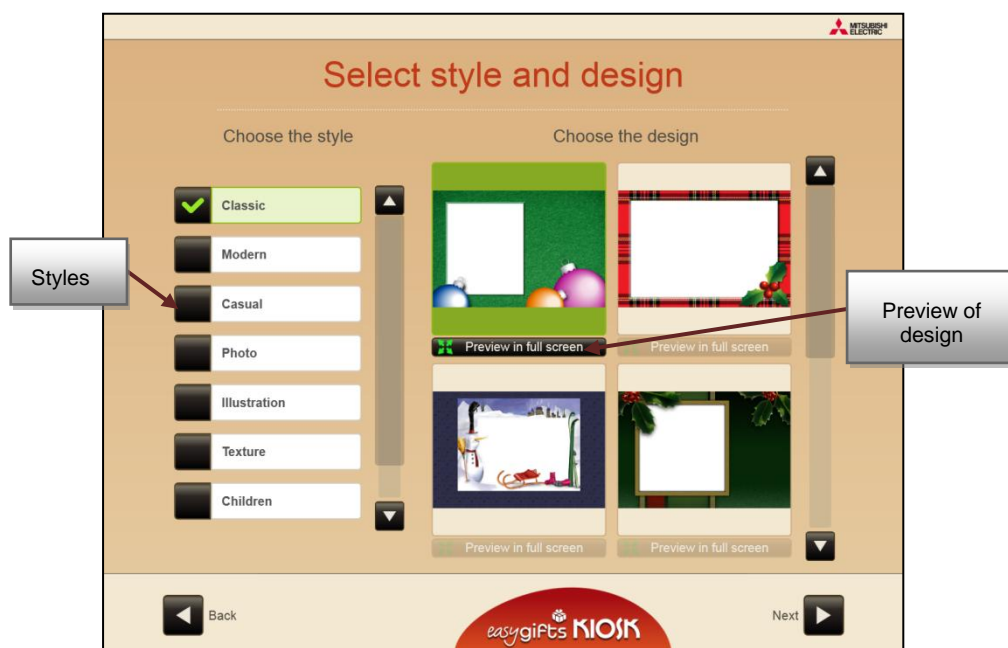
After selecting the design, the user is taken to the edit screen where he must select the photo to be inserted into the design and make the necessary adjustments.

Some designs may have a specific text such as 'Happy Christmas', 'Happy Holidays' etc. or a default text such as 'Enter your text'. Regardless of the content, the text can always be changed by the end user.

The position of the photo in the frame area can be changed by dragging your finger over that part of the screen or using the controls displayed on the right.

To change the current design use the design change button. Every time it is pressed the design is changed cyclically in the group of designs from the same style. The content of the text does not change, but the text position or colour does, because this is information provided by the designer in order to always obtain the most attractive result.

The retouch button allows you to make changes to the image, as already explained in other sections of this manual.

Press the 'Edit text' button to change the lettering, size, colour and shadowing of the font and the content of the text.

The edit screen has a keyboard at the bottom. As the character are entered, they are shown in real time on the screen.

The text can be moved by dragging your finger over the design directly or using the arrow keys on the right.

To rotate the text at small angles, lightly press the rotate button. To rotate at 90, 180 or 270 degrees, keep the button pressed.
Since the text allows for line breaks, 3 different text alignments are also available: left, centred and right.

To accept or cancel the changes made to the text in this screen, press the validation button on the right at the bottom.
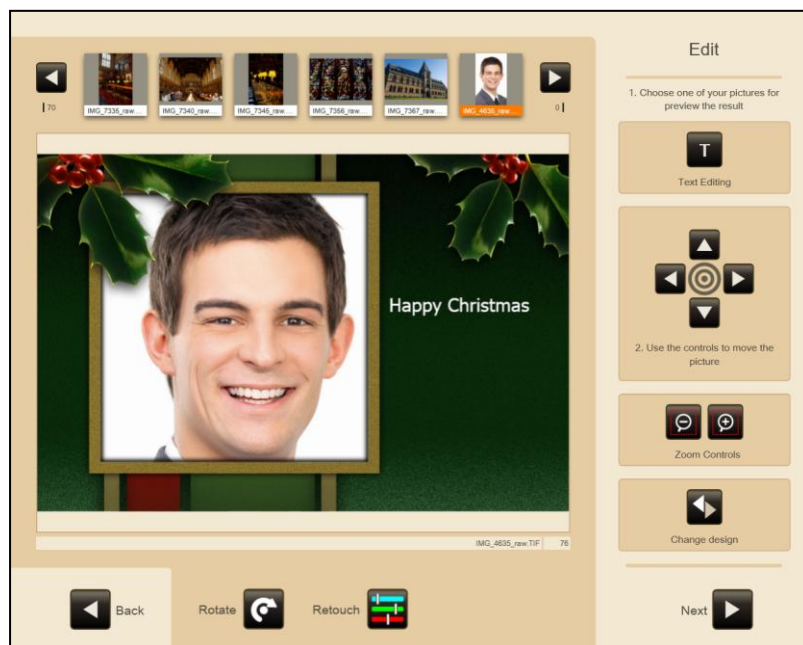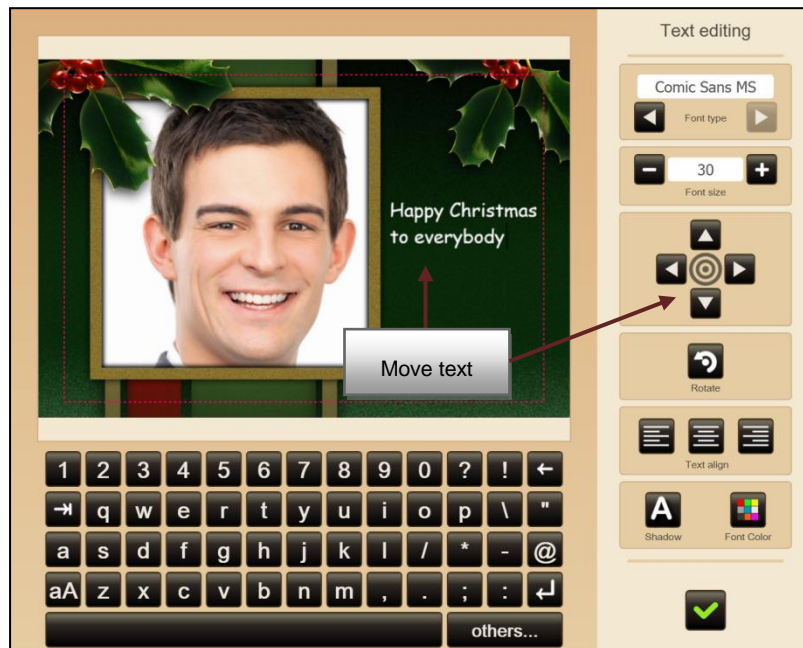
Once the image has been inserted and the text defined together with its characteristics, press 'Next' to continue.

The customer will be asked whether he/she wishes to apply any automatic enhancements to the photos, if the application is configured in this mode.

Then a summary is shown of the Greeting product ordered. It is also possible to increase the quantity. For some products which comprise a pack of several cuts of paper (3 or 4 panoramic cards created from consecutive cuts of an A4 sheet, for instance), this quantity refers to the number of packs and not to the total number of copies.
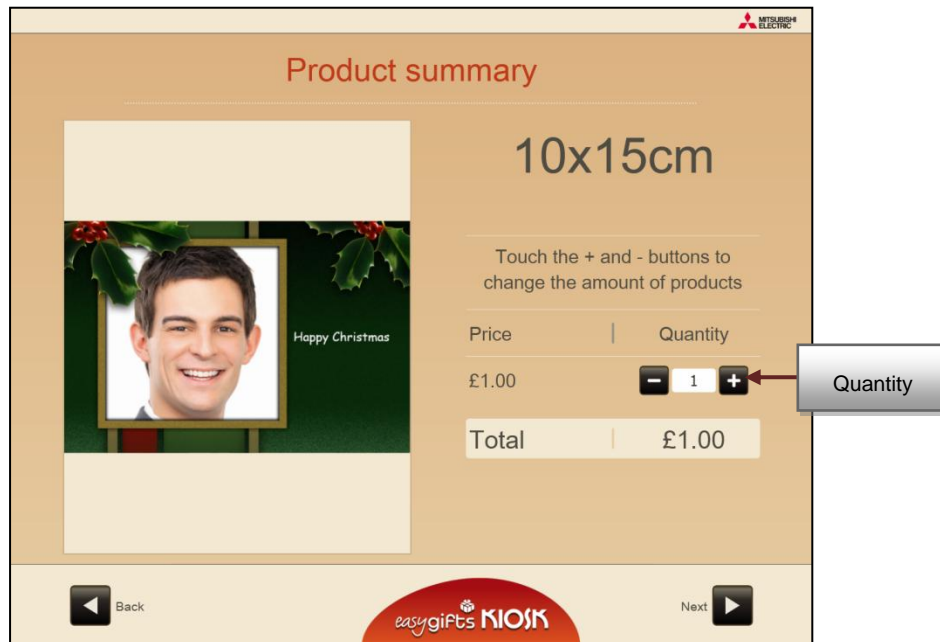
5.6.2 'Greeting cards' service administration: product creation

The administration of the different products in this service is similar to other services that have been explained in this manual already. In the product administration screen each product can be activated/deactivated, the order of appearance on the screen for the end customer can be changed and new products can be created and each of them deleted or edited.
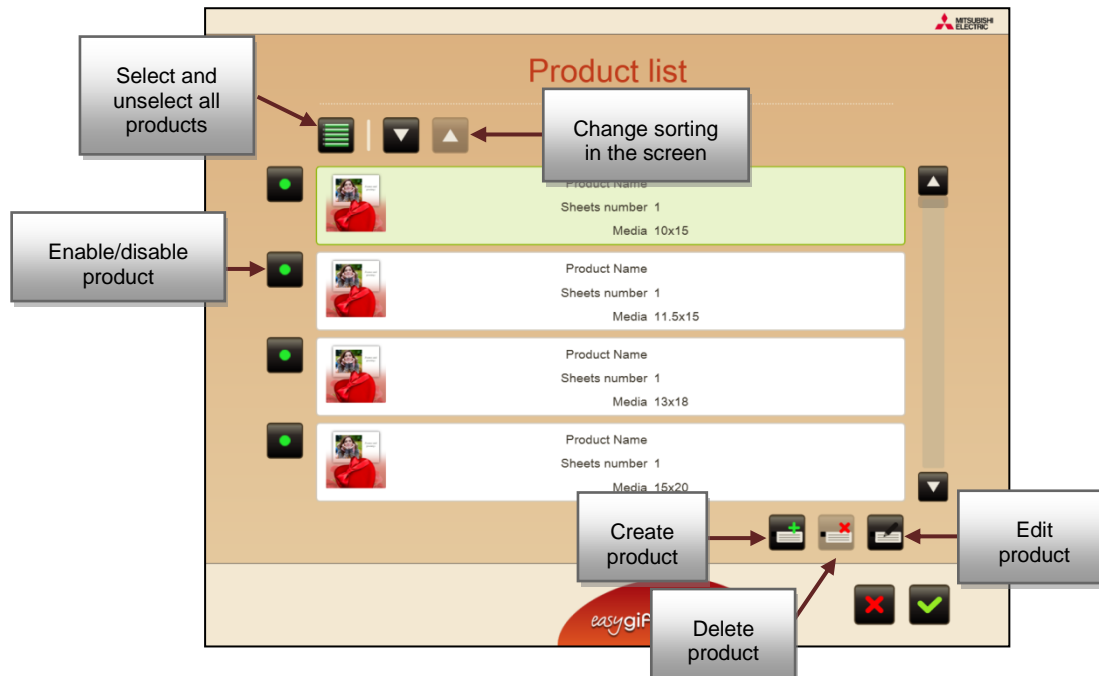
On entering the edit part, in addition to the basic common values with other products from other services, the following additional values can also be changed:

Orientation. If the product is vertical, horizontal or any. The default choice is any, if the user does not want to differentiate the product and therefore its price, based on this concept.

Classification. The type of greeting to which the product belongs: Christmas greeting, invitation, etc.

If for any reason (changes in the publication of formats by the printing server, for instance), a product cannot be created, that product will be deactivated on the operator screen and will appear on an orange background.

5.6.3

5.6.4 'Frames and Greeting cards' service administration: editing prices

To facilitate the entering and editing of the prices of the different products, they have been grouped by printsizes, irrespective of the family to which they belong.

To assign different prices to each individual product, press the 'unfold' bar to show all the different products with the same printsize and in that way assign different prices.
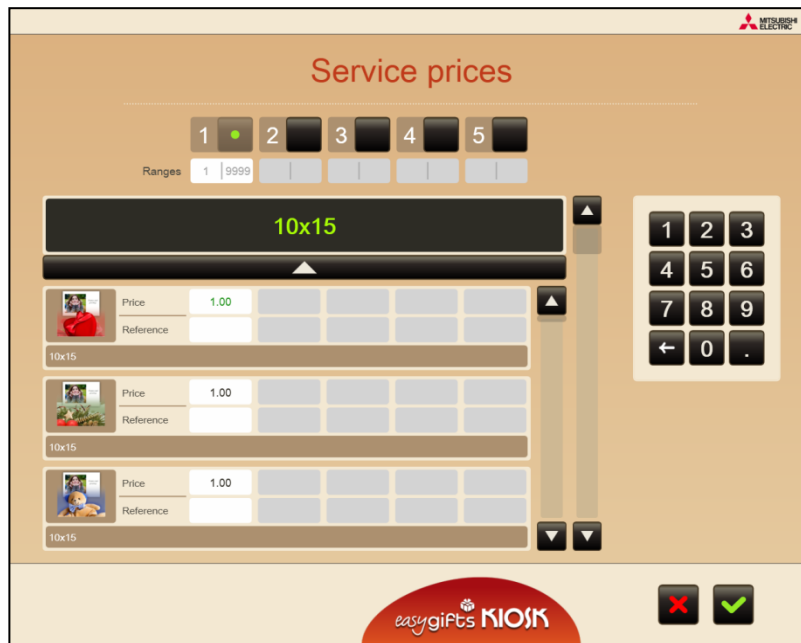
5.6.5 'Frames and Greeting cards' service administration: settings

In this part the application is configured in the event that the service has the automatic image enhancements and also permits the product types to be configured.

Product types. This button is used to access a configuration screen in which the different Greeting product families or types are activated or deactivated. The order in which they are shown on the screen can also be changed.
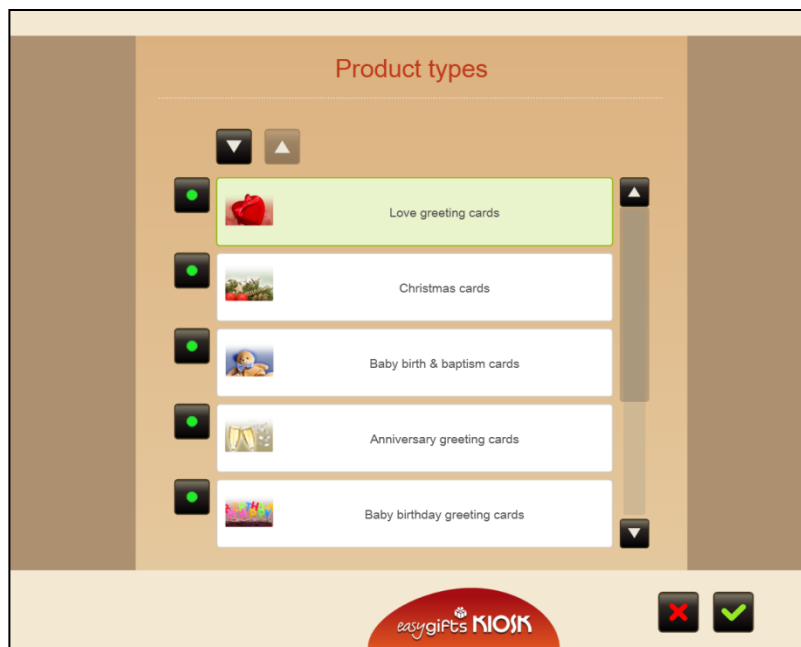
5.7 'Online Kioskgifts' service

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 Easygifts Kiosk 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.

5.7.1 'Online Kioskgifts' 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) 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.

Selected order

Order not possible

Total price
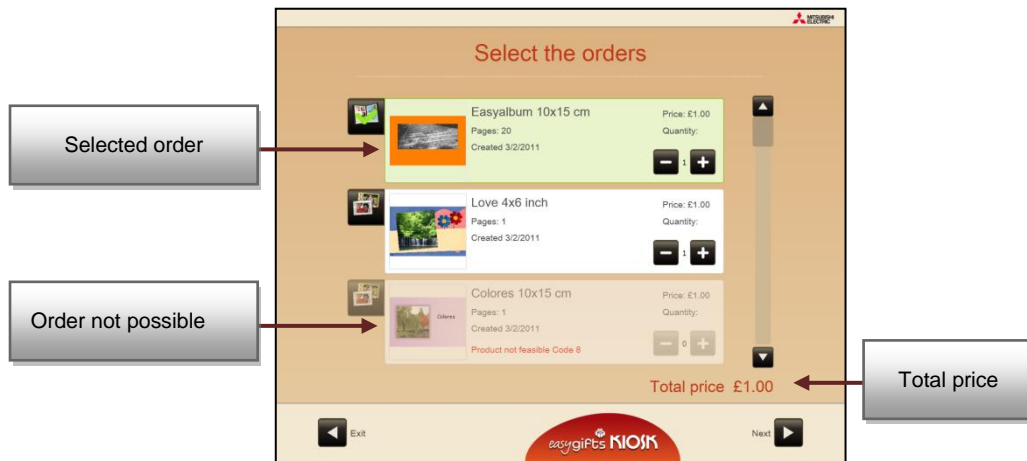
b) The system will read the order information and create the necessary files for production. Depending on the amount of orders selected and the number of pictures in each order, this operation may take a few seconds or several minutes.
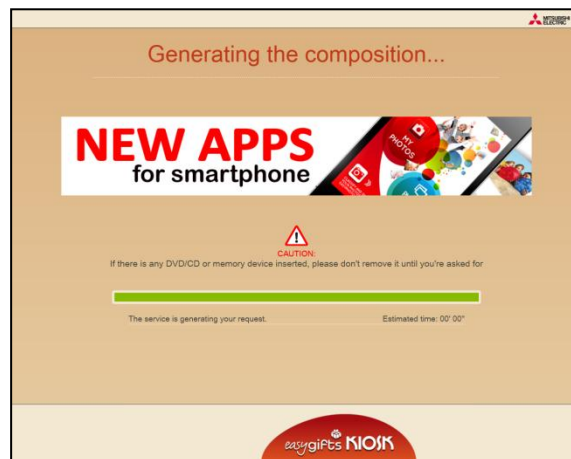
c) The service is closed and a summary of the order is displayed. Unlike other services, you cannot add new products.
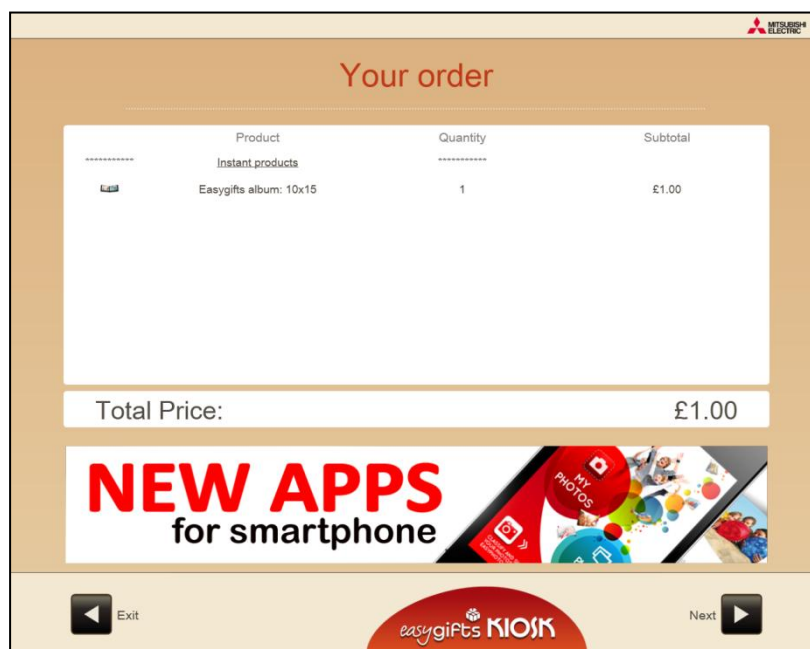
5.7.2 'Online Kioskgifts' service administration: product creation and price editing

It is not possible to configure products and prices for this service, since the equivalent local services and products configuration is used, either Greetings, Calendars or Easygift Album.

5.7.3 When an order is not possible in the 'Online Kioskgifts' 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.

(1) Error code	(2) Description	(3) Solution
(4) 1	**(5)** Invalid product setting	**(6)** The product on the website is new and your software has not been updated
(7) 2	**(8)** Unknown product ID	**(9)** The product on the website is new and your software has not been updated
(10) 3	**(11)** Product disabled	**(12)** Enable the product from the product settings
(13) 4	**(14)** Unknown product type	**(15)** The type of product sent from the website is new and your software has not been updated
(16) 5	**(17)** Invalid production machine	**(18)** Correctly configure the product from the product settings
(19) 6	**(20)** Service module not started	**(21)** Check that the service (PRINTS/LABS) associated with the product has been started
(22) 7	**(23)** Consumable does not exist	**(24)** Check that the consumable associated with the product is not excluded in the format filter
(25) 8	**(26)** Incorrect group	**(27)** The product setting on the website is new and your software has not been updated
(28) 9	**(29)** Incorrect number of pages	**(30)** The order is damaged and cannot be processed

(31)10	(32) Incorrect data format	(33) The order is damaged and cannot be processed
(34)11	(35) Invalid customer order (there is no order information)	(36) The order is damaged and cannot be processed
(37)12	(38) Invalid customer order (there are no pictures in the order)	(39) The order is damaged and cannot be processed
(40)13	(41) Invalid customer order (there are no miniatures in the order)	(42) The order is damaged and cannot be processed

5.8 '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. There are two ways in which to use this functionality: by offering it as another Kiosk service, as shown in the image above, or by dedicating Kiosk exclusively to this use, in which case the keyboard appears directly in the home screen for entering the order code, as shown in the following illustration.
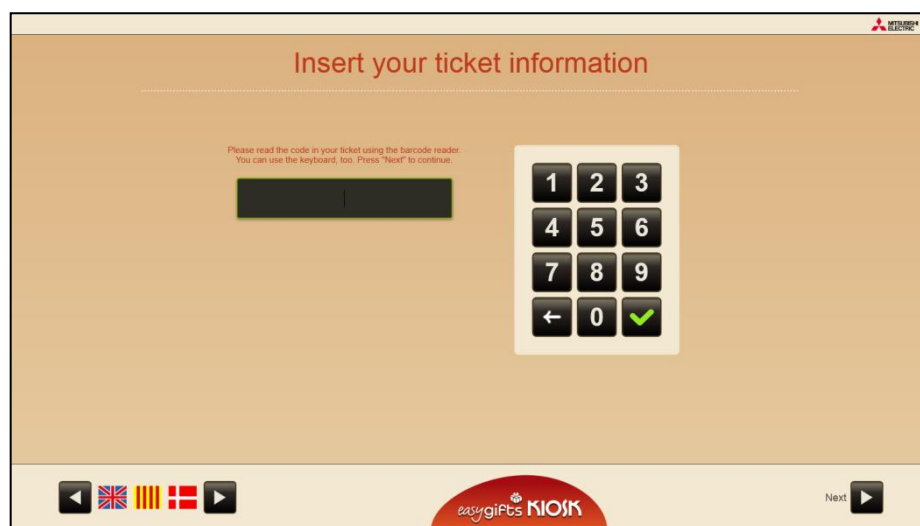
5.8.1 'Pending orders' service: work flow

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.

b) The service will conclude and an order summary shown. Unlike other services, no new products can be added.
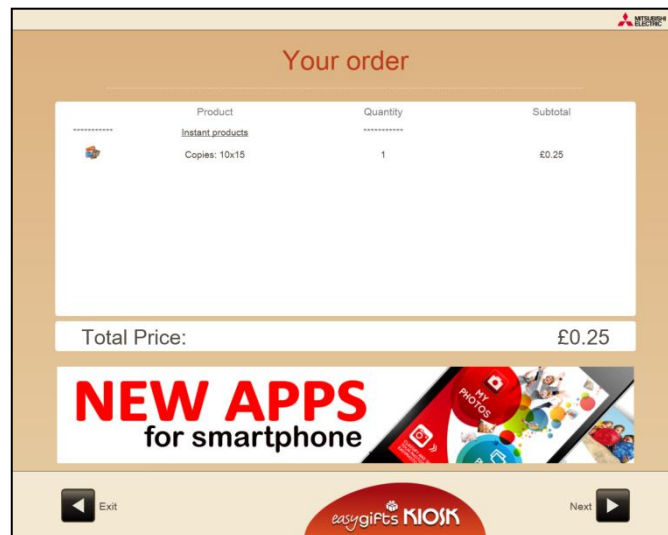
5.8.2 'Pending orders' service administration: general settings.

To access the configuration of this service, proceed in the same way as for any other service.

A screen will appear that allows you to set the machine to manual mode. This mode is only recommended if the barcode scanner is not available.

5.9 Customised Products

With this service, it is possible to offer photo gifts in the Easygifts Kiosk, 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 dye sub 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 Easygifts Kiosk 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.

5.9.1 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, as usual.

The first screen of the 'Customised Photoproducts' service shows the first groups or product families defined at the settings section. The user must choose the type of product here.
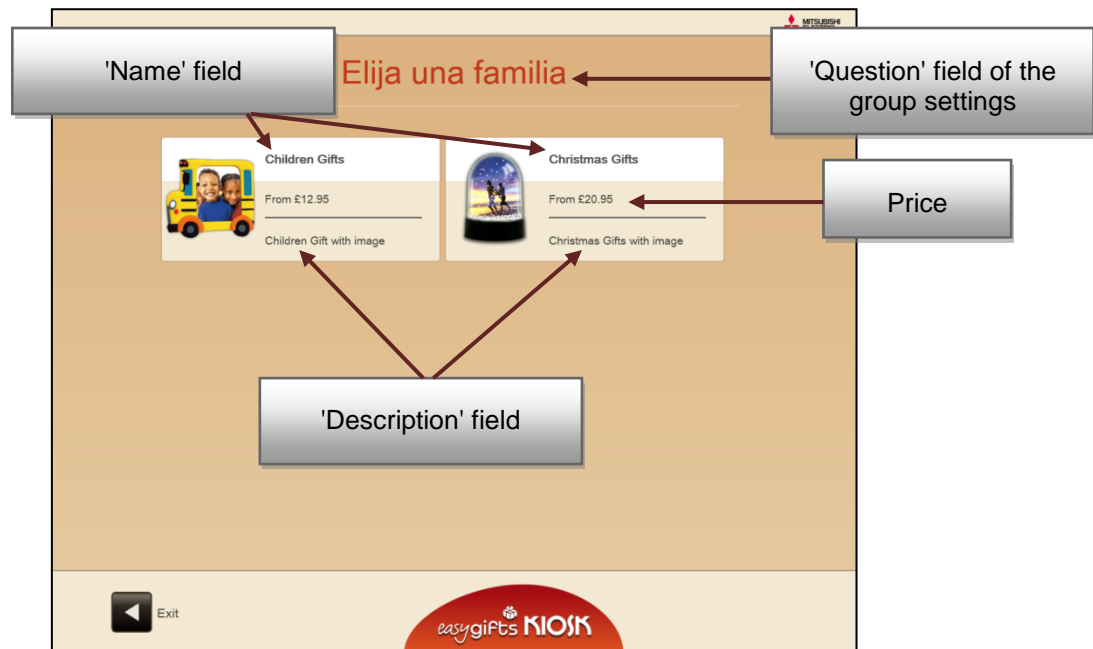
In the case of a product, the figure in the picture below is the price of the product itself. However, if it is a group, it is the most affordable price belonging to the group
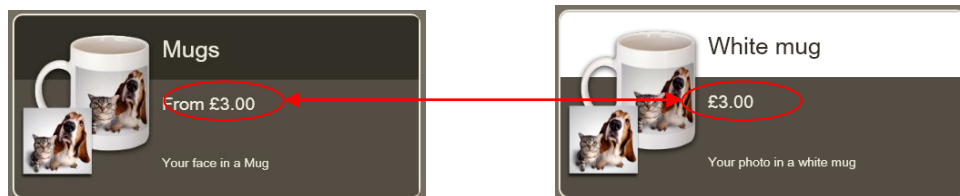
You can tell if an item is a group or product by the background colour of the title and the label accompanying the price.

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

After choosing the product to be created, the screen where the image to be used is selected appears and also a preview of the product. In the event that the preview image does not exist, only the image chosen by the customer is shown in the band at the top, in a larger size.

If you want to adjust the size and position of the photograph in the product, this can be done through the touch screen or using the controls on the right of the screen. These adjustments will be applied to the photograph before it is printed out.

It is also possible to change certain properties of the photo using the 'Retouch' button.

After completing the adjustments, the user is taken to the automatic image enhancements screen and then to the order summary screen where the requested number of products is chosen.

To complete the order, simply press continue.

5.9.2 'Customised' service administration: creation of products and prices

On entering 'Customised' product configuration for the first time, the following screen will appear. All the product families, sub-families and products are shown on the left, in the form of a tree structure.

When selecting a family or a product the configurable details are displayed on the right of the screen.

Only the following parameters can be changed for each product:

- Activated/deactivated
- Production machine
- Service module
- Format/channel
- Printsize
- Price (this service does not allow price ranges to be configured)

The other options/buttons are shown as disabled.

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.

6 Operator services

6.1 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.
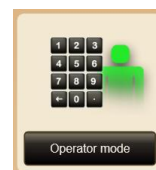
When you activate the operator mode, all the functions reserved for the operator are enabled; this means that the validation of the order by the operator will be done automatically (see section on Order validation).

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.

6.2 Photo ID photographs
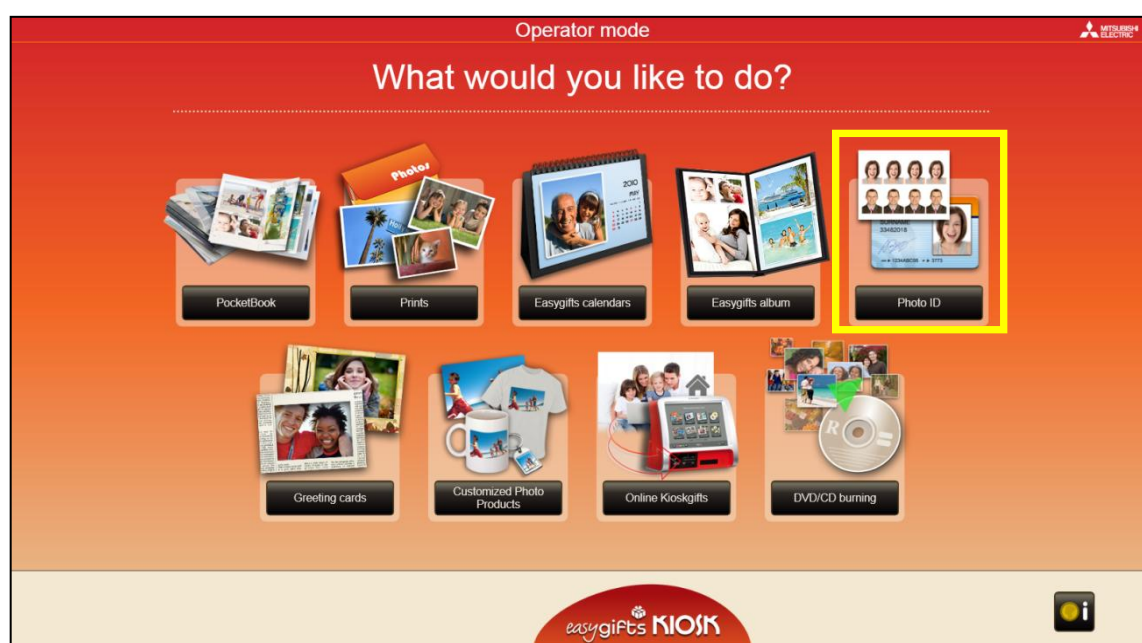
This service is used to print a photograph for identity documents, passport, wallet-size portraits, etc.

The operator will have the possibility of mixing up to 2 different photographs in the same print, 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.

6.2.1 'Photo ID' photographs workflow

When the 'Photo ID' button is pressed on the main screen, this service will begin. After selecting the folders with the photographs, the template selection screen will appear.
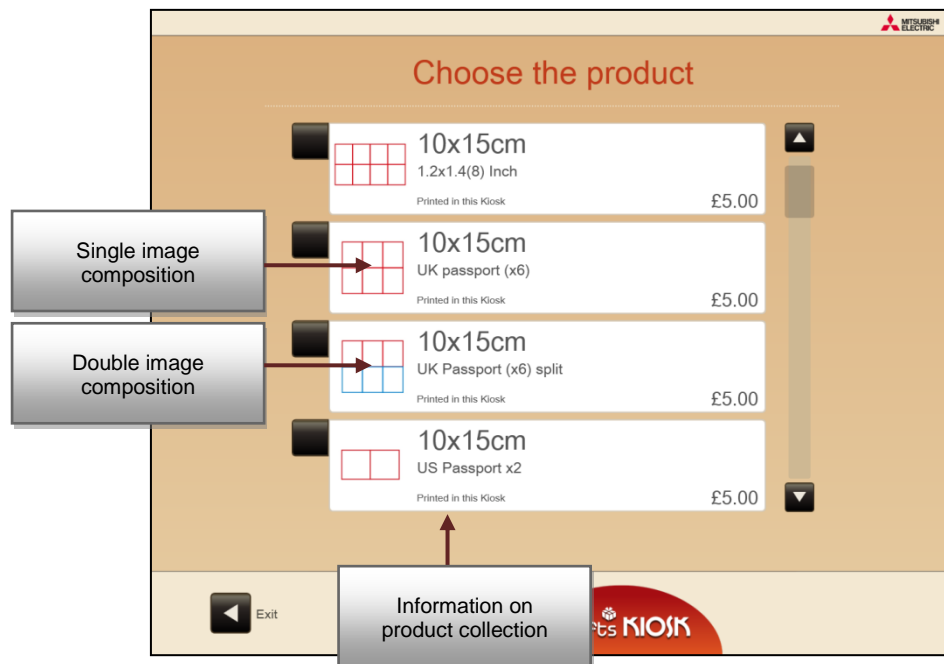
NOTE
There are two types of templates: standard and 'split'. The 'split' templates (in two different colours) allow up to two different photographs to be combined.
The template prices are determined by the product associated with the template.

After selecting the template, the photographs must be selected. The operator will have the necessary functionality buttons to adapt the image to the biometric mask. A preview will be shown of the result composition at all times.

Control for changing the image selected from the template
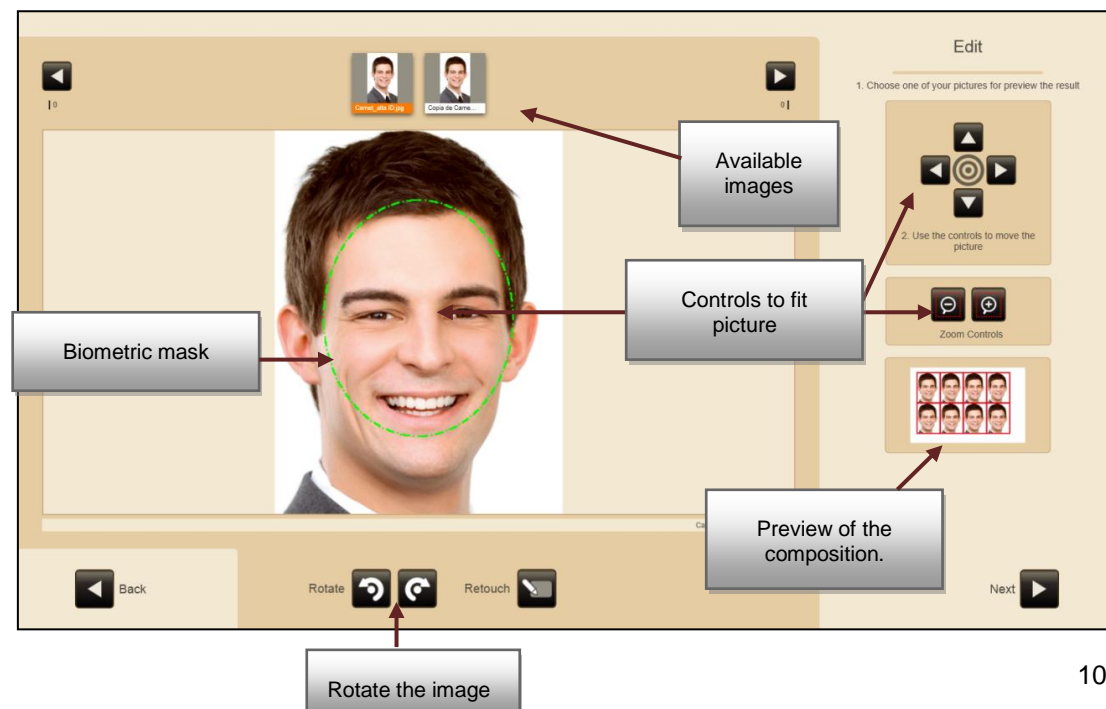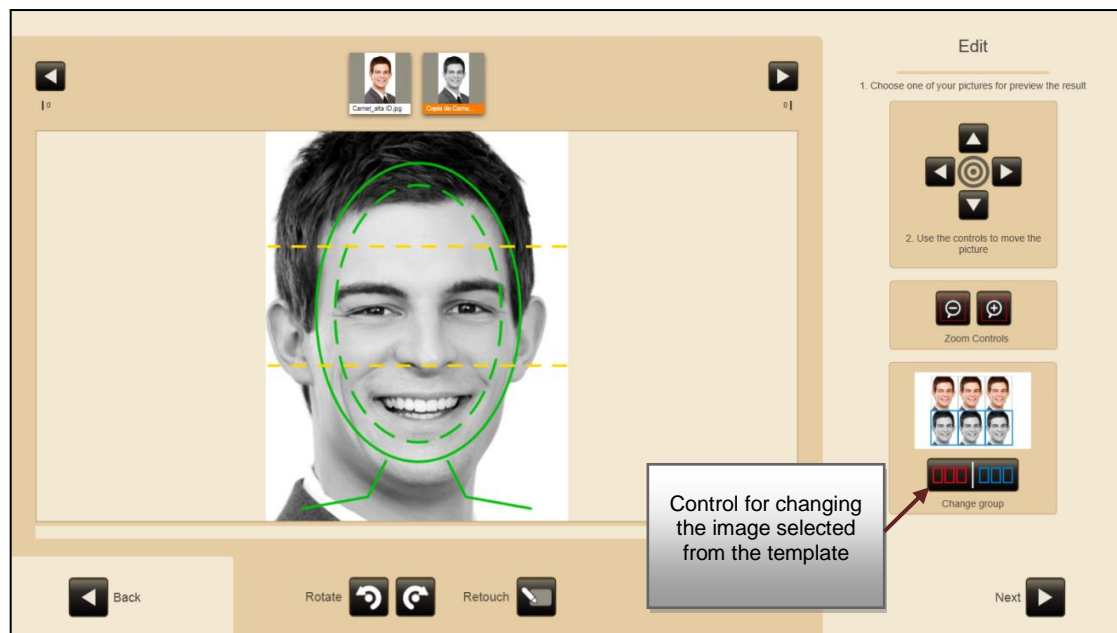
Once you have the picture in place and are satisfied with the result, press 'Next' to continue.

A summary will then be displayed with the preview of the composition created. In this screen the operator can select the number of copies to be printed.

Product summary

10x15cm

Touch the + and - buttons to change the amount of products

Price	Quantity
£4.95	− 2 +
Total	£9.90

Quantity
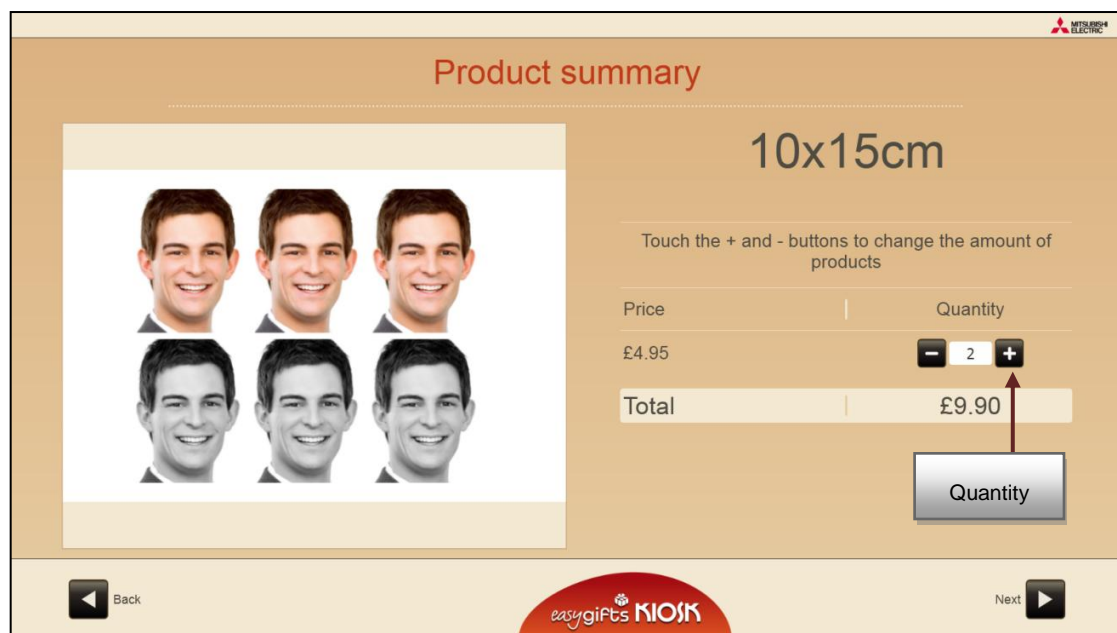
6.2.1.1 Automatic biometric adjustments

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.

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.

6.2.2 '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.

6.2.3 '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.

6.2.4 '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.

This screen allows the automatic biometric detection to be activated, questions to be put to the customer, the definition of the customised adjustments to be applied in creating the service compositions, the configuration of the template files to be used and the configuration of an automatic photo source.

Activate biometric detection

Configure customised adjustments

Activate questions to customer

Use automatic face alignment

Customer asks

Apply custom adjustments

Configure

Apply customised adjustments

Configure templates

Layouts configuration

Picture sources preferences

Photo source preferences
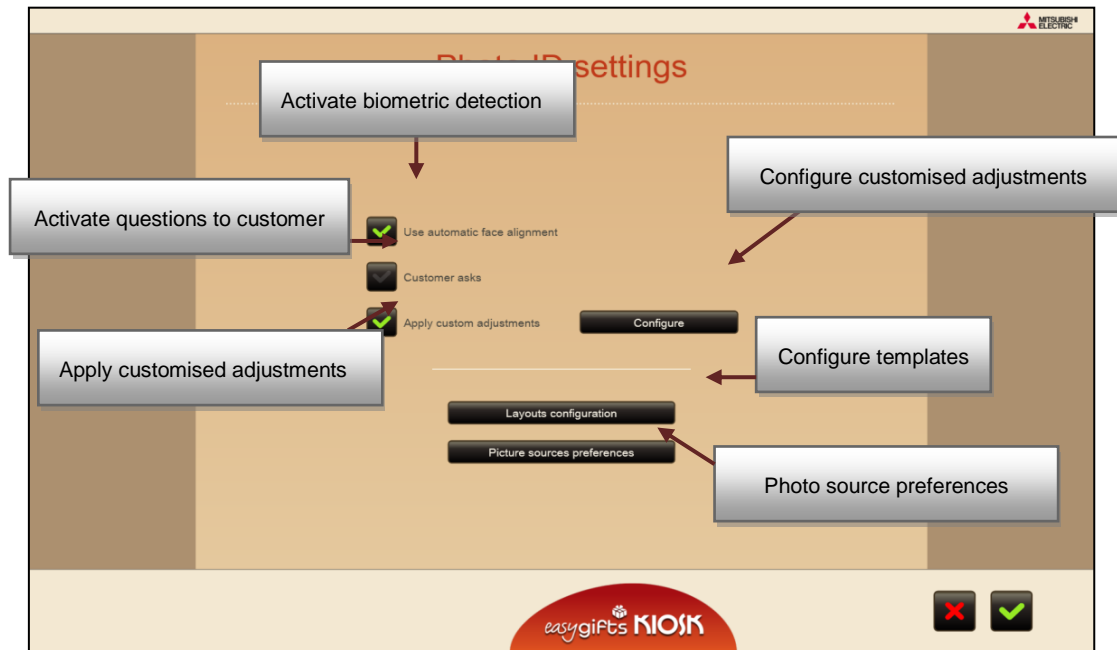
On selecting the 'Configure' button associated with customised adjustments, the following screen will appear. In this screen the operator can define the brightness, contrast, saturation and colour levels he wishes to apply. The operator can print out the image to validate the result of the adjustments made.
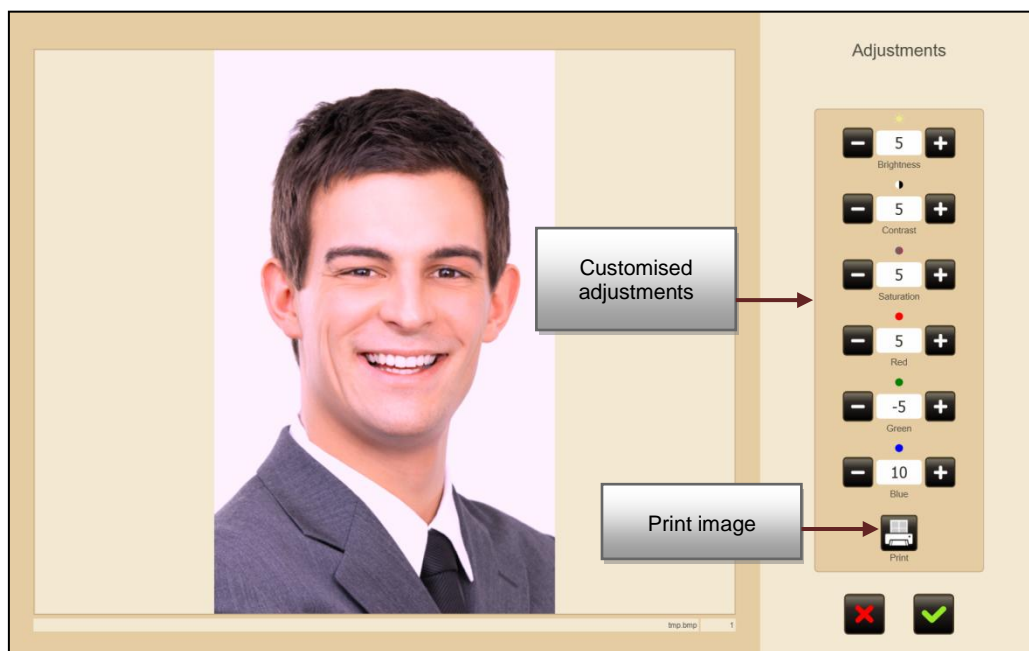
Adjustments

Customised adjustments

Print image

When the 'Layouts configuration' button is pressed, the following screen appears. In this screen the operator can define which template files he wishes to enable.
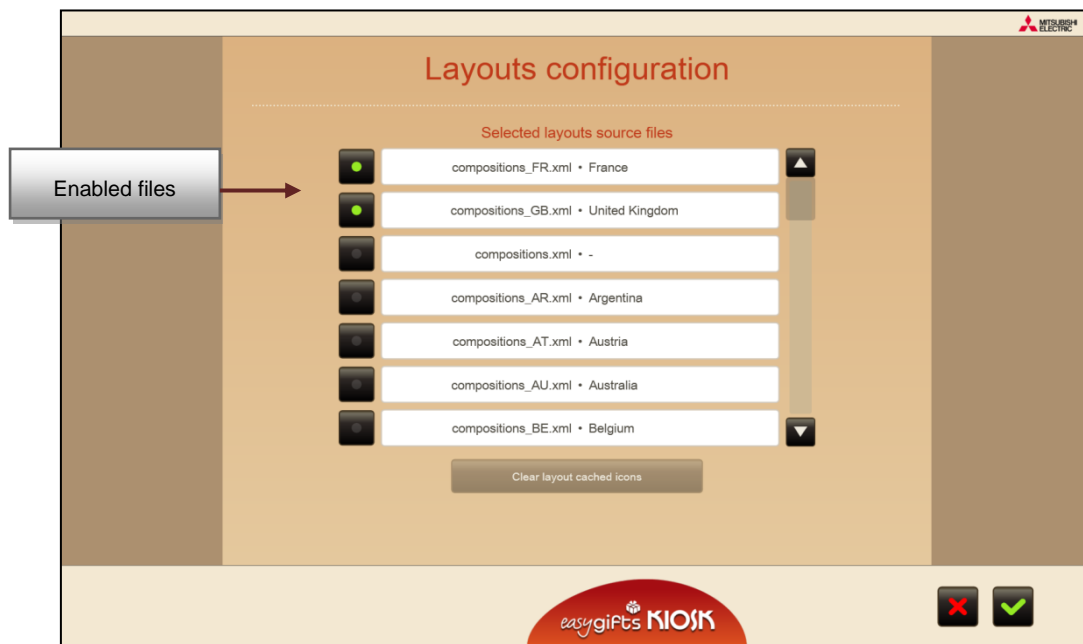
When selecting the 'Picture sources configuration' button, the following screen will appear. In that screen the operator can define an automatic photo stand and define whether the service flow must show the folder selection screen.
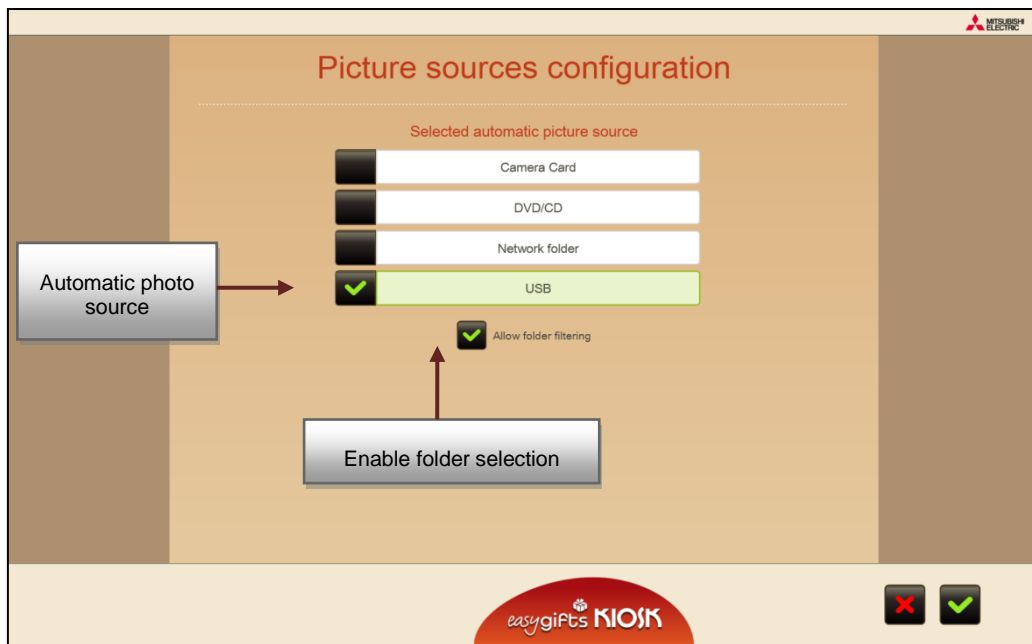
NOTE
If the operator selects an automatic photo source, the flow will not show the photo source selection step. The system will directly ask for the selected type of device to be entered. If the 'Allow folder filtering' option is disabled, it will only be applied to sources that can function without the folder selection step; for example a flash drive, memory card or DVD/CD. In some sources, the folder selection step will always be shown, regardless of the value of this adjustment.

Appendix Dispatcher

Rev. 2.1

CONTENTS

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.
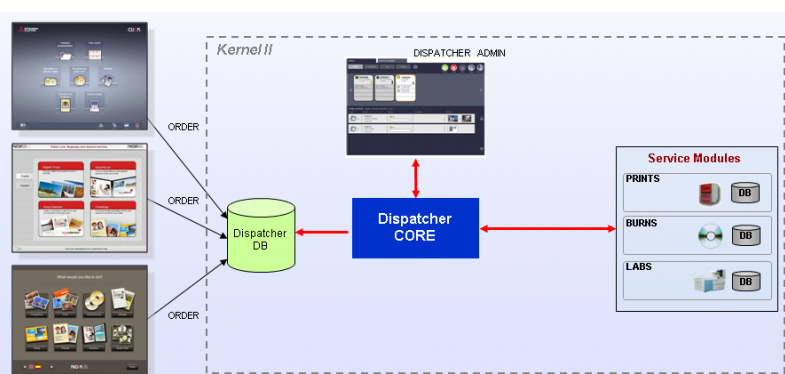
- Dispatcher CORE: This is the main Dispatcher application which must always be operating. This application processes all the orders and services, keeping control and managing the queue of pending jobs for the various output devices. The monitor application starts the dispatcher core motor and makes 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
- Executing
- Paused
- Error
- Done
- 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.
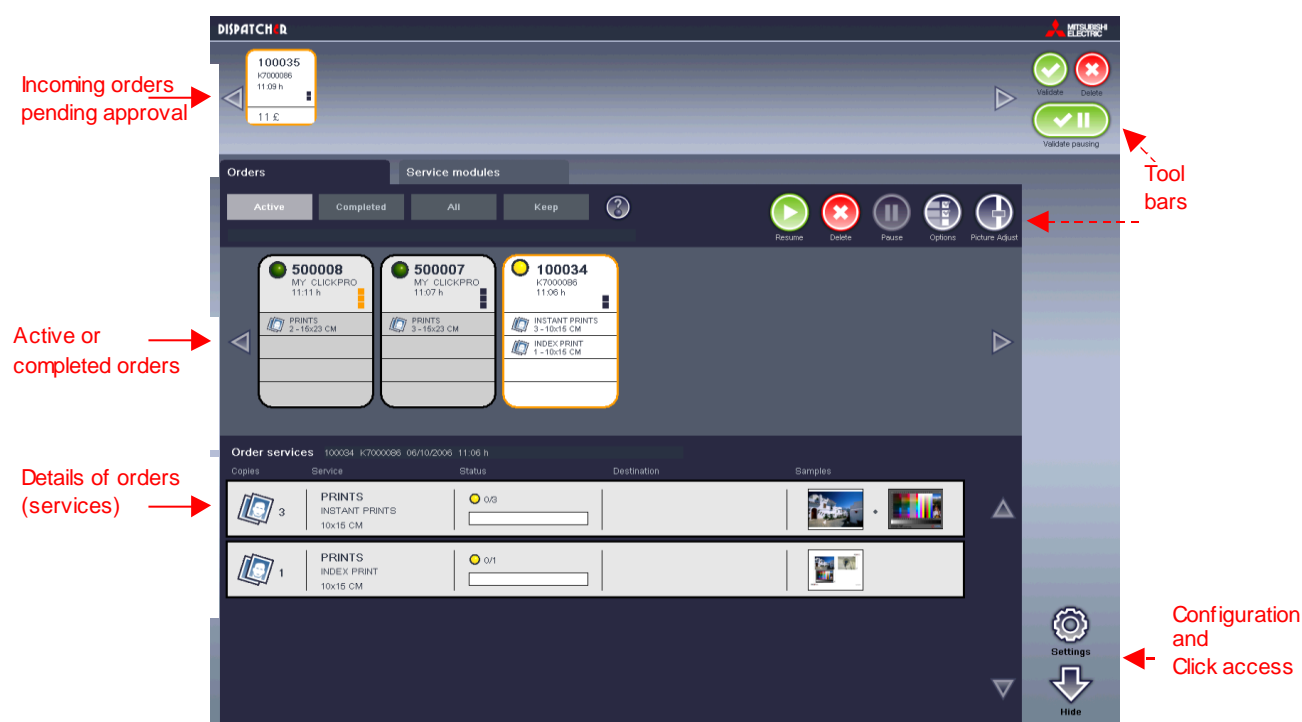
All the lists are ordered by priority and time. The left hand side of the list contains higher priority orders, while those with a lower priority or older ones are on the right. The list of completed orders is ordered by date of ending (more recent ones are shown first)
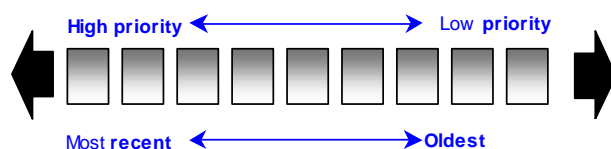
- **Order and service files**
  Each order is represented by files containing information as a summary, either about the services involved, or about the order itself.

Entry of orders pending approval

999998

K70XAVI

13:16 h

6 €

+ 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").

Now!   High   Medium   Low

+ 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

500026

C5000006

14:54 h

23/03/2007

0,00 €

+ 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").

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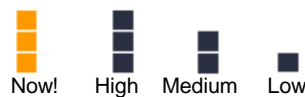
+ File transfer progress bar.
+ PRICE of the order
+ Order payment indicator. If the order has been paid for at the Order Terminal this image in the file will appear in the file before it is approved. It shows that it can be approved before the client comes to collect his/her completed order.

Orders approved

100035

K7000086

11:09 h

CALENDARS
1 – 15x23 CM

FRAMES
1 – 10x15 CM

INSTANT PRINTS
9 – 10x15 CM
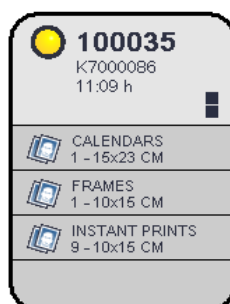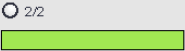
+ Order identifier. A ticket is generated with this identifier in Kiosk or Click(100035)
+ Machine identifier. This identifier is an alias that can be configured at Kiosk or Click level (K7000086)
+ Day and time of order creation (those on the same day will only be shown with a time)
+ Order priority. There are 3 possible priority levels and a change of colour to show top priority ("now").

Now!   High   Medium   Low

+ 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	Destination	Samples
2	PRINTS PRINTS 15x23 CM	2/2	Printer 1	

- **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 <u>Incoming orders section (does not appear in *Clicklite*)</u>

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.
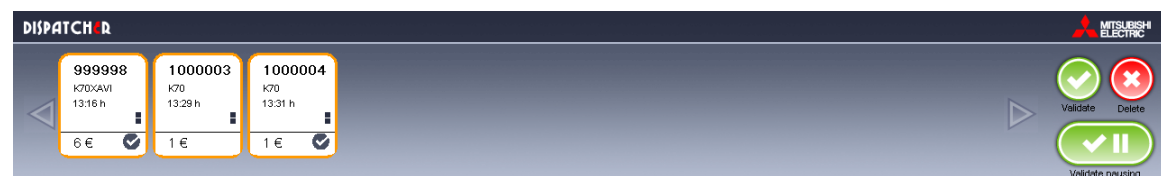
2.2.1 Approval of orders

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.
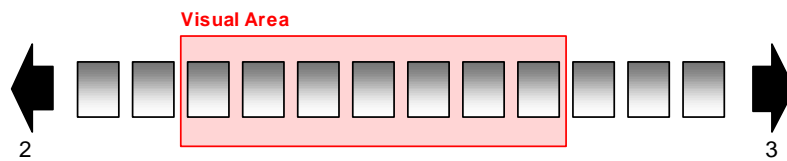
2.3 <u>Active orders section</u>

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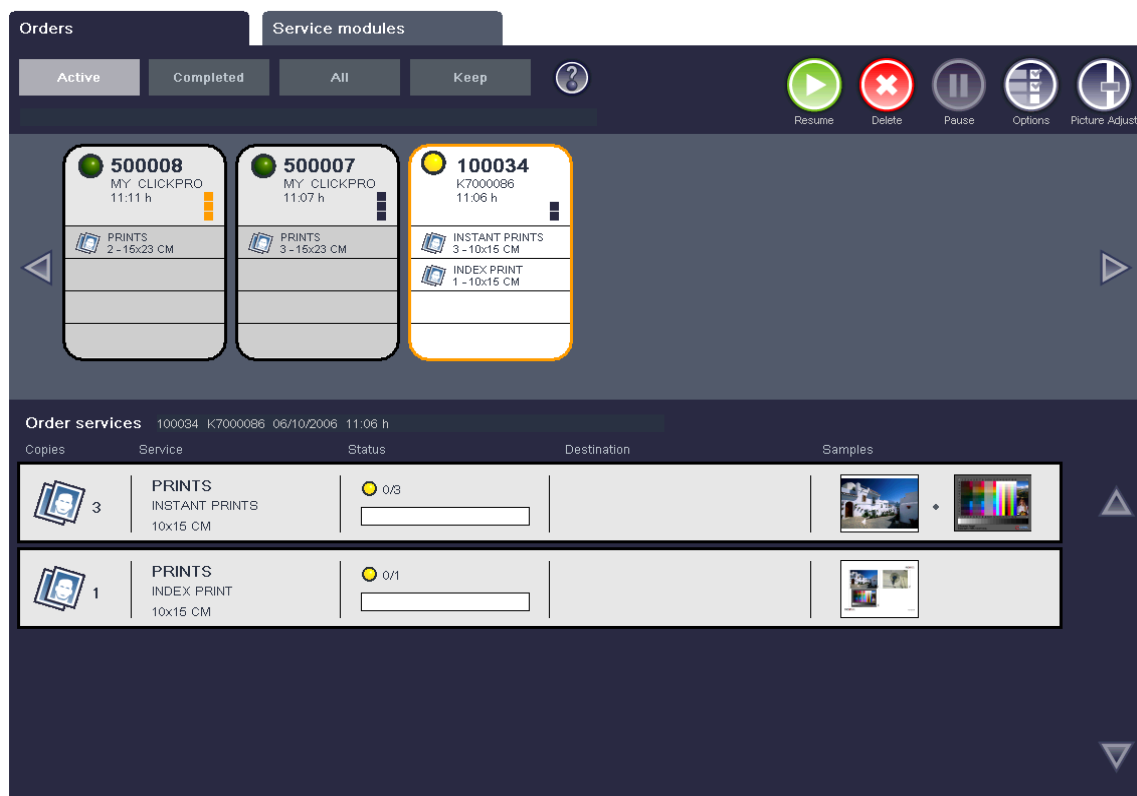
The status of an order may vary, and is represented by the colour codes described above.

An order being executed may be paused at any time[*], and the Service Module stops work on it.

[*] 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	ERROR
	PAUSED
	EXECUTING
. . .	PENDING
	DONE
LOW	

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.
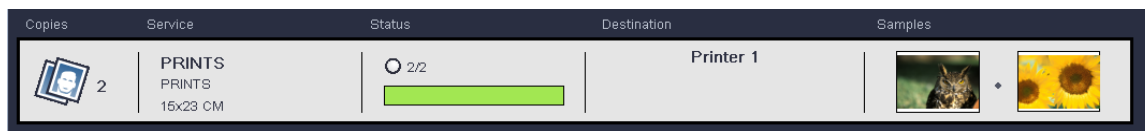
- **Copies:** The number of images for processing is shown in the first section. When burning CDs, the number of CDs is normally 1.

- **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 isn 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.
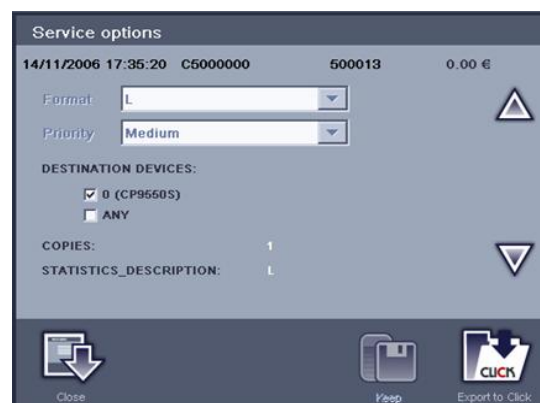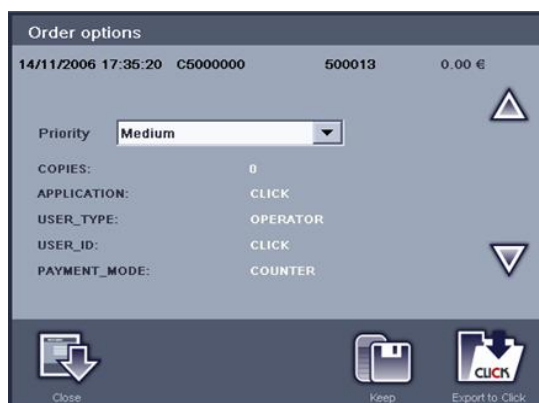
2.3.5.1 Restrictions

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.)

o   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.

Working Folder

DISPATCHER_123456

DISPATCHER_222333

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.
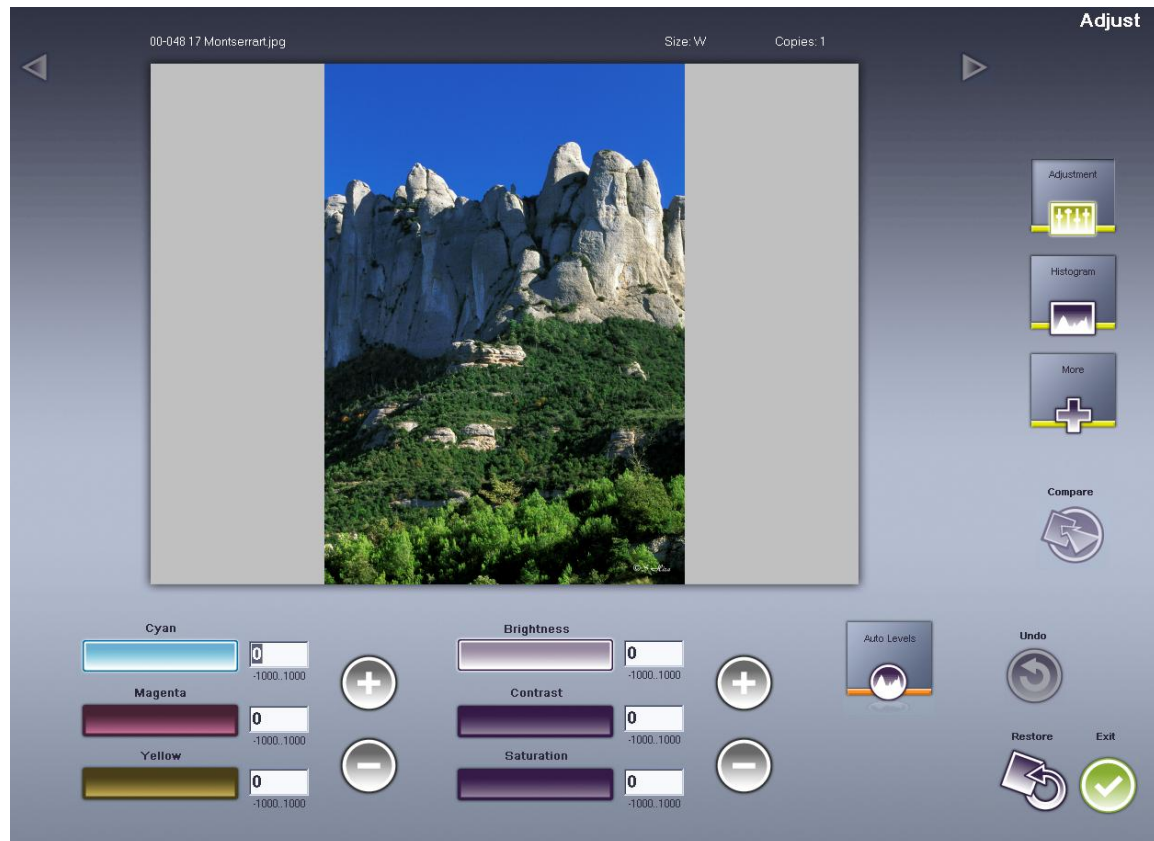
Operation of this screen is explained in the Click manual.

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 <u>Service Modules</u>
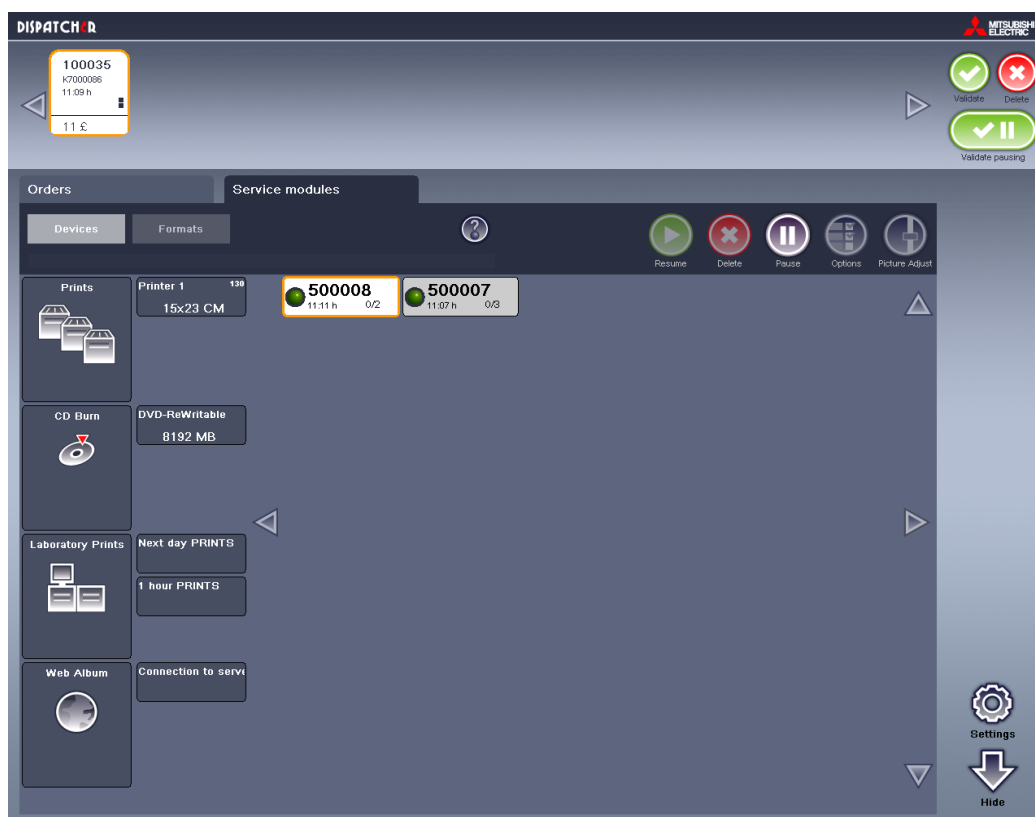
2.5.1 Devices

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:
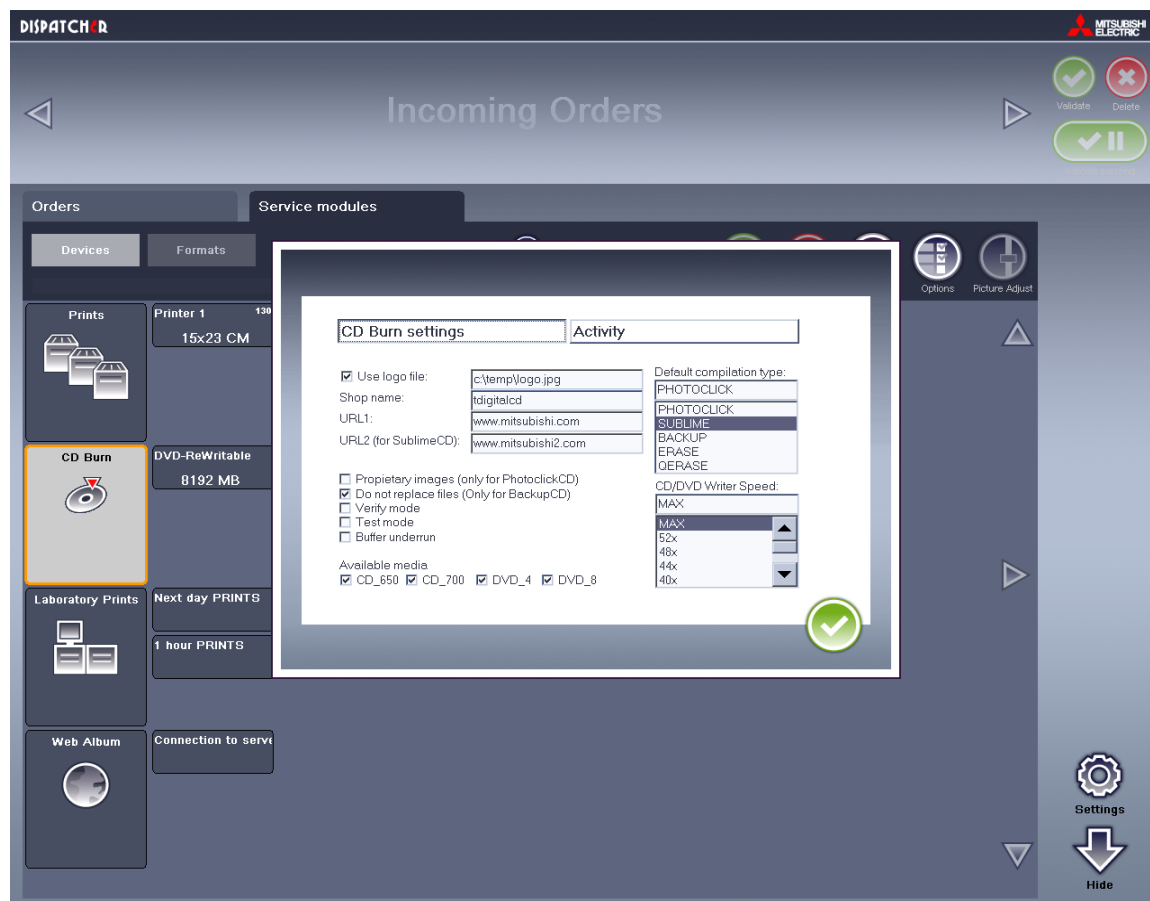
2.5.1.2 Working with services and their actions

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
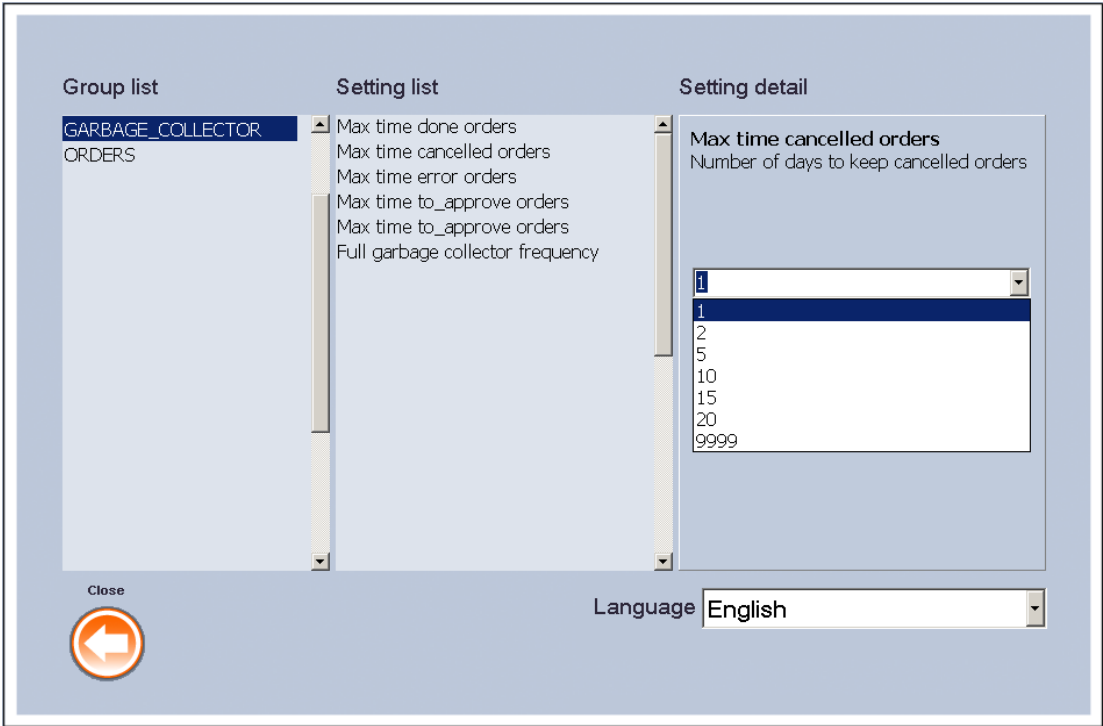
Group list

ORDERS	
Setting list	Setting detail
AUTO_APPROVE 3.1.1.2	*3.1.1.1* *TRUE*: All orders reaching Dispatcher are automatically approved *3.1.1.3* *FALSE*: All orders reaching Dispatcher must be approved manually.
3.1.1.4	*CHOOSE*: 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

3.1.1.5	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
3.1.1.6	*MAX TIME DONE ORDERS*: (default value 1 day)	3.1.1.7 1-9999: shows how many days orders are saved for.
3.1.1.8	Frequency of cleaning up of completed orders. Numerical value specified in days.	
MAX TIME CANCELLED ORDERS: (default value 1 day)		
Frequency of cleaning up of cancelled orders. Numerical value specified in days.		
MAX TIME ERROR ORDERS: (default value 0 days - disabled)		
Frequency of cleaning up of error orders. Numerical value specified in days.		
MAX TIME PENDING ORDERS: (default value 0 days - disabled)		
Frequency of cleaning up of pending orders. Numerical value specified in days.		
MAX TIME TO_APPROVE ORDERS: (default value 0 days - disabled)		
Frequency of cleaning of orders to be approved. Numerical value specified in days.		
FULL GARBAGE COLLECTOR FRECUENCY: (default value 365 days) Frequency of complete cleaning.		
STATISTICS_CLEANUP_TIME: (default value 365 days)		Configuring the system to clean orders over one year old is recommended. If the value is 0, the statistics data are never deleted.
Frequency of cleaning of order information from the system. The statistics data disappears.		

TRANSFER	
Setting list	Setting detail
LOCAL PATH: Local folder, where incoming orders are stored. This folder must be writable.	
SHARED PATH: 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	DeviceERROR	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.

No other service can take priority until the one being executed is completed. | Device ERROR | NOT automatic (can be changed from Dispatcher options)

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

Rev. 2.1

CONTENTS

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.

- 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:

- o   Run or close the applications manually.

- o   Restart or shutdown the system.

- o   Registration and activation the software..

- o   Selection application to execute in the system.

- o   Enable/Disable the hardware detection to be connected the machine.

- o   Enable/Disable the USB device writing protection.

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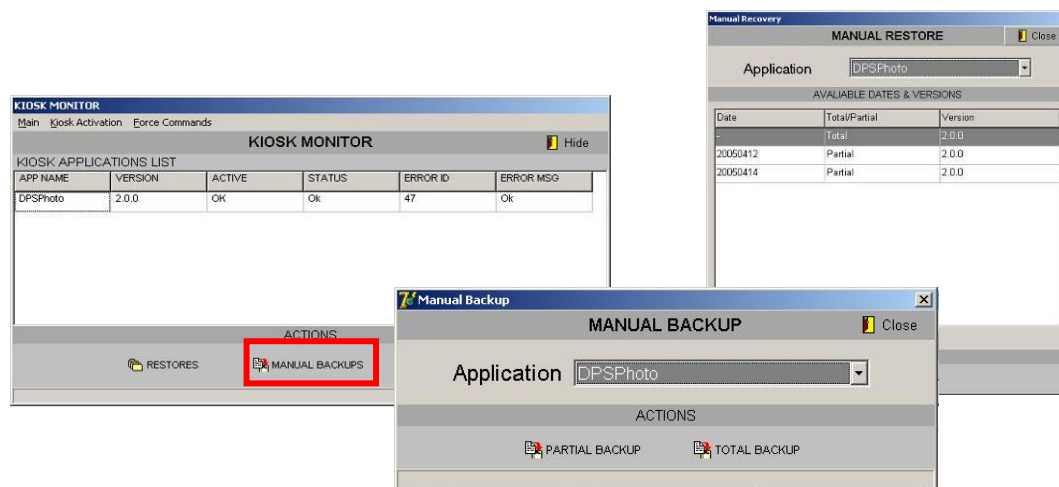
The operator can restore the information saved manually from the DPS Monitor main screen:

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 (interna 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)	DPSConnection	Remote updates, web statistics and device warnings

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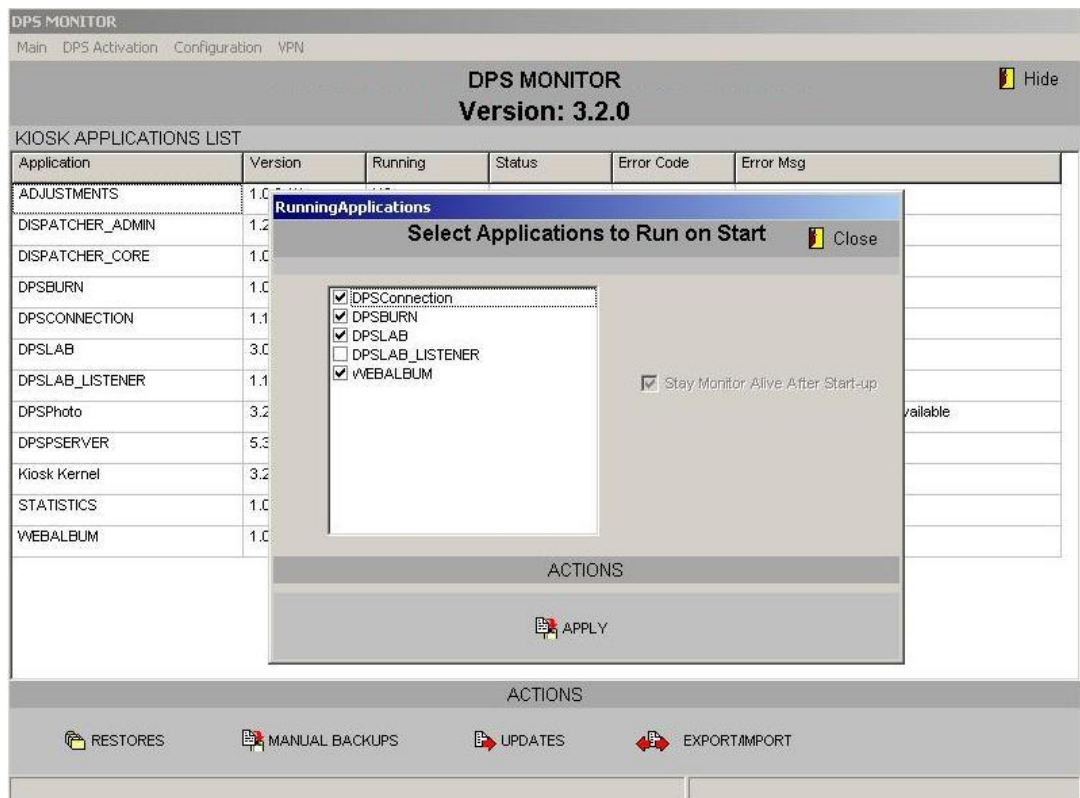
Regardless of what is selected on this screen, the system has a series of restrictions that will modify this selection subsequently. These restrictions depend on the product and whether it is *Online* or *Offline,* as the following table shows:

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 aplication will be avaiable by default in all software, even in ClickLite application.

Appendix DPS PrintServer
Rev. 2.3

CONTENTS

1. 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).

1.1   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.
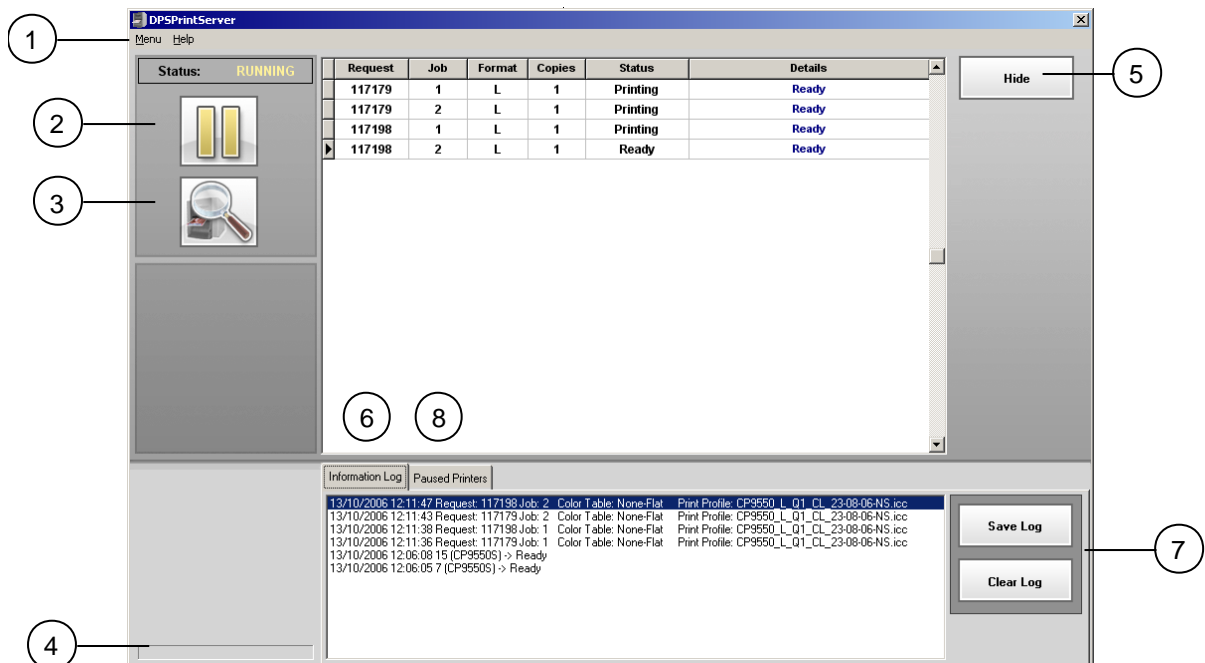
Descriptors

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.

1.2 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.

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.

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.

Supported printers

CP9600 Series
CP9550 Series
CP3020 Series
CP9500 Series
CP9800 Series
CP3800 Series
CP9820 Series
CP70 Series
CP707 SeriesMPU
CPK60 Series
Canon Plotter Series

Supported formats

Format name - cm - inches	CP95XX Series	CP9600 Series	CP98XX Series	CP3020 Series	CP3800 Series	Plotter Series	CP70/707/ K60Series
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	√[2]
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	√[2]
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	√[2]
WH - 15X23H - 6X9H	X	√	X	X	X	X	X
WHG - 15X23HG - 6X9HG	X	X	√	X	X	X	X
W10 - 10X15(x2) - 4X6(x2)	√	√	√[1]	X	X	X	√[2]
W10H - 10X15(x2)H - 4X6(x2)H	X	√	X	X	X	X	X
W10HG - 10X15(x2)HG - 4X6(x2)HG	X	X	√[1]	X	X	X	X
W11 - 11.5X15(x2) - 4.4x6(x2)	√	√	√[1]	X	X	X	X
W11H - 11.5X15X(x2)H - 4.4x6(x2)H	X	√	X	X	X	X	X
W11HG - 11.5X15X(x2)HG - 4.4x6(x2)HG	X	X	√[1]	X	X	X	X
W13 - 13X18W - 5X7W	√	X	√	X	X	X	√[2]
W13HG - 13X18WHG - 5X7WHG	X	X	√	X	X	X	X
W20 - 15X20 - 6X8	√	√	√	X	X	X	√[2]
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
X - 13X18 - 5X7	√	√	√	X	X	X	√[2]
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	√[1]	X	X	X	X
W76HG - 15X7.6(x3)HG - 6X3(x3)HG	X	X	√[1]	X	X	X	X

L51 - 15X5.1(x2) - 6X2(x2)	√	X	√[1]	X	X	X	X
L51HG - 15X5.1(x2)HG - 6X2(x2)HG	X	X	√[1]	X	X	X	X
W55 - 15X5.5(x4) - 6X2.2(x4)	√	X	√[1]	X	X	X	X
W55HG - 15X5.5(x4)HG - 6X2.2(x4)HG	X	X	√[1]	X	X	X	X
A5 - 15X20 - 6X8	X	X	X	X	X	X	√
W10A5 - 10X15(x2)_A5 - 4X6(x2)_A5	X	X	X	X	X	X	√
W13A5 - 13X18W_A5 - 5X7W_A5	X	X	X	X	X	X	√

[1] When the printer is an MPU multi-cut formats are not supported.

[2] Formats not supported for K60 printer Series.

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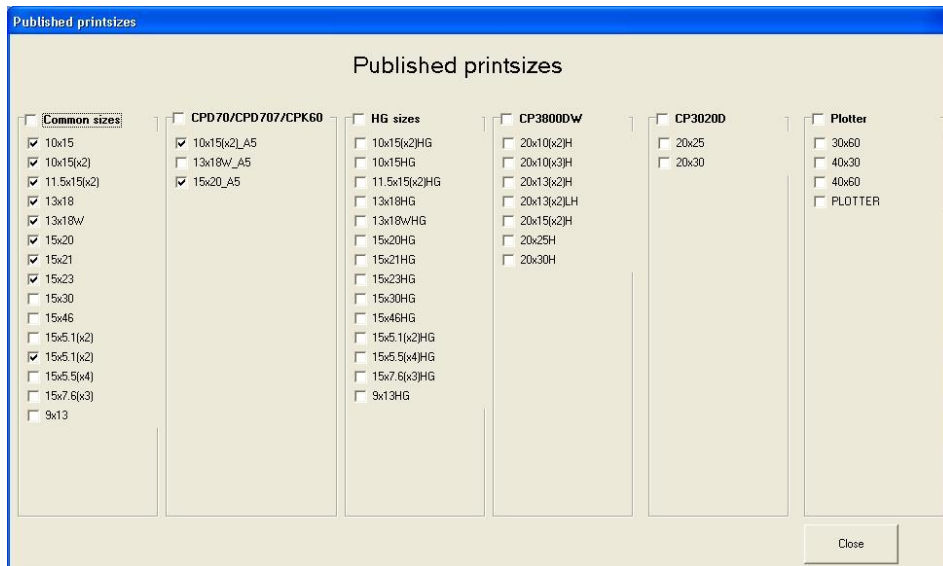
IMPORTANT
For enabling the CP9600 exclusive formats, the option "exclusive formats" in the CP9600 printer parameters section of DPSPrintserver must be checked.

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

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 / K60 Series	√

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

2. 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.

2.1   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.
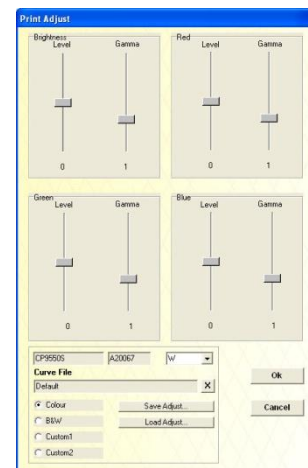
Classic colour correction

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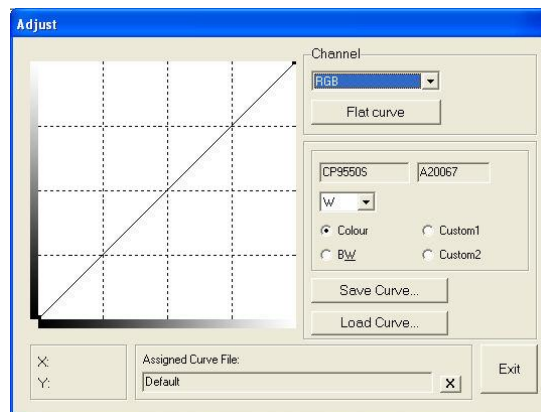
- **ICC Settings (Colour Matching, ICC Profiles)**

  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'.
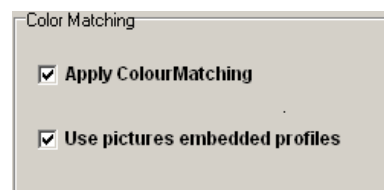
NOTE
Old Mitsubishi ICC profiles from DPS PrintServer versions prior to 5.6 are no longer supported. Use the new ones provided or contact Support if you had old specific ICC profiles.
From version 5.6. DPS PrintServer allows using standard ICC profiles as well as the new Mitsubishi ICC Profiles provided.

  Select the printer you want to configure. Press the 'ICC Settings...' button in the 'Printer Settings' panel. This setting only affects the printer selected.
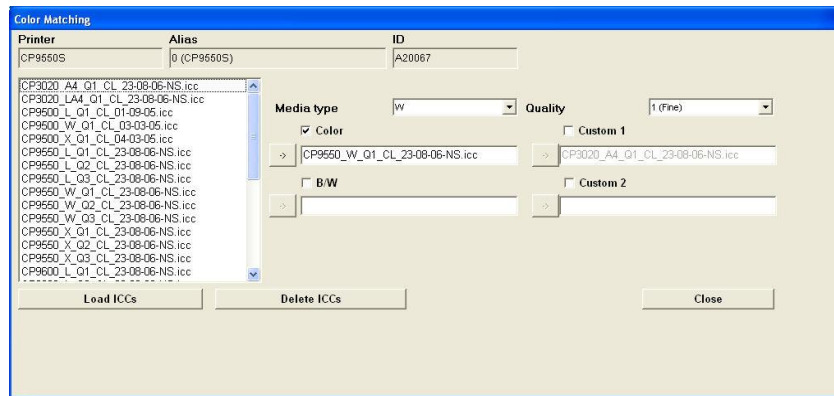
- **ICC Profiles list.** With the list on the left, it's possible to manage the ICC profiles placed in the DPSPrintServer\ICCs folder. It's possible to add new profiles to the list by pressing 'Load ICCs' and selecting an ICC profile placed in another location. It's also possible to delete them from 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".

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.

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 trough the process. To obtain fully detailed information about the iQ management system, please, refer to chapter 5.

2.2   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.
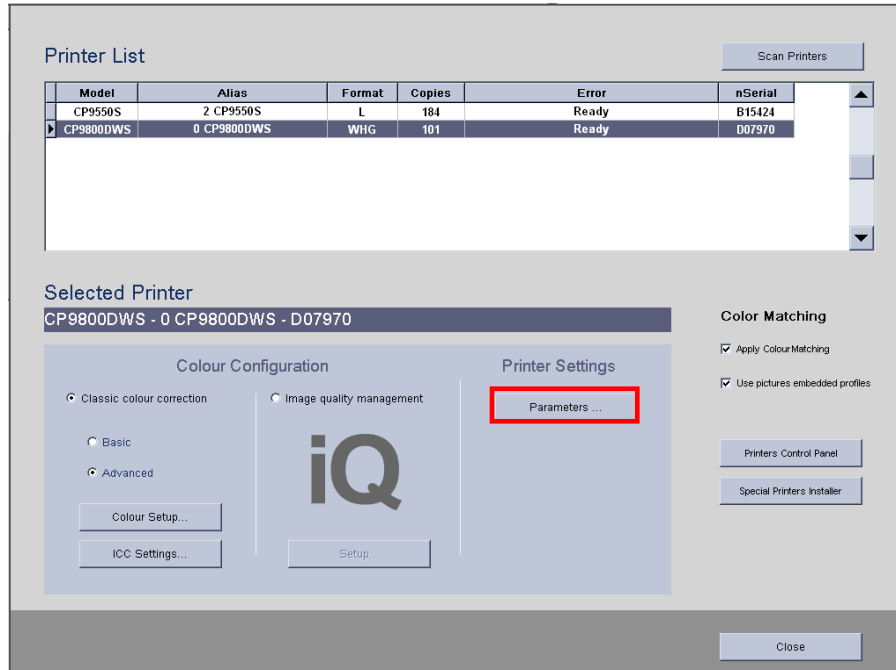
If you select a printer and then click on "Parameters" you will be able to change some advanced printer options which can be used to fine tune adjustments or improve print quality.

- **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: 5
  CPK60DW-S: Noise: Off Sharpness: 5
  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).
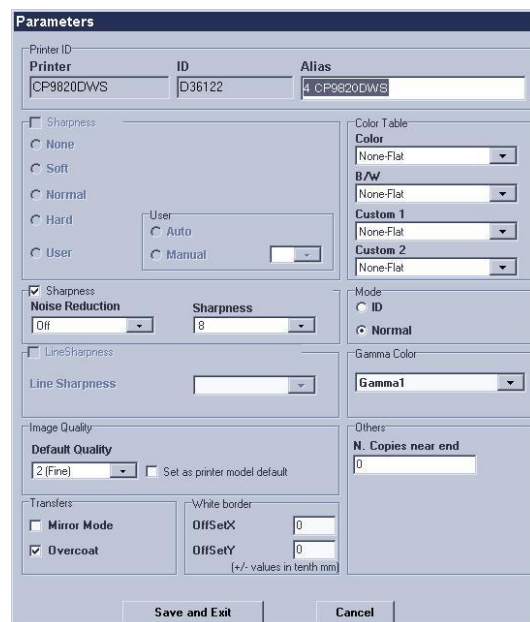
- **Number of copies near end** will generate an incident when reaching the configured number.

- **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 slighty 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.

2.3   <u>Picture automatic adjustments</u>

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.

- Enable picture automatic adjustments

- Adaptative 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.

- Adaptative 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."

2.4   Print Areas

In this section is possible to set the default parameters of real print area and white border

White

Limits of printable area

Non printable area

Choose printer, format and quality

Adjustment of printing area

Refresh screen

Save

Exit

White border

Keep proportions

Print areas configuration

Format Areas

Printer Type: CP3020

Format: A4

Quality: 314

Total width: 2508

Total height: 3134

DPI: 314

Printable width: 2250 pixels

Printable height: 2900 pixels

Printable width: 182,01 mm

Printable height: 234,59 mm

White border X: 4

White border Y: 4

Make proportional

Refresh

Save

Exit

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.

3. 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.

3.1 Adjust

Access this screen by selecting Menu > Settings > Adjust

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.

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.

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).

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.

Beep on finished request

If checked, a sound will be played when a request finishes printing.

Logging / No resize

These parameters are for technical purposes. Please leave them unchecked.

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.

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.

Number of stacks

This setting only applies to MPU unit. It allows configuring the number of the MPU output stacks on the belt.

Custom backprint information

See MPU related information in this manual further on.

4. 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.

4.1   CP9550DW-S/CP9600DW-S/CP9800DW-S/DP9820DW-S/CP70/CP707/CPK60 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.

      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.

4.2 <u>CP9550DW-S/CP9600DW-S using ICC profile</u>

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.
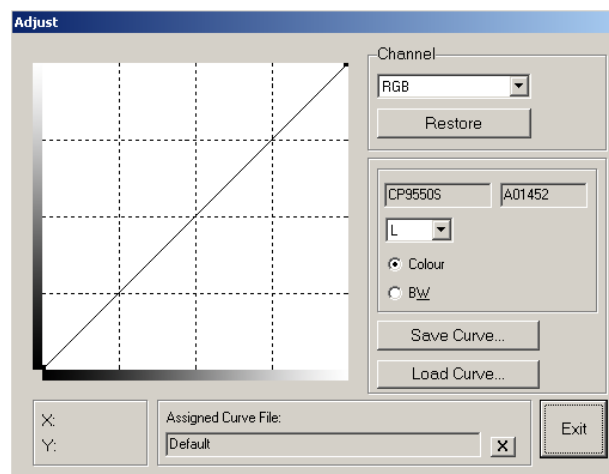
5. Press the 'Parameters' button on the 'Detected Printer list' to show the Parameters form.

      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.

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'.

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.

4.3 <u>CP9500DWS/CP3020DW using CPD files</u>

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.
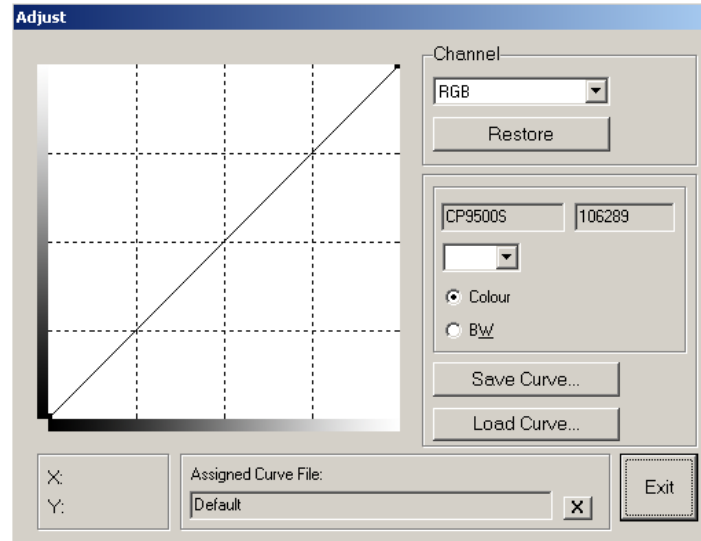
5. Press the 'Parameters' button on the 'Detected Printer list' to show the Parameters form.
   a. In the 'Colour Table' group, in the 'Colour' drop-down list box, select the 'Printer Colour' option. Do not use the 'Flat' colour table. These convention of these names depends on the printer model.
   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.

4.4   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.

c. Set 'Sharpness' to 'User' and 'Manual' to 6.
d. Set 'Gamma Colour' to 'Photo'.
e. Set 'Mode' to 'normal'.

4.5   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.

5. MPU Sorter

5.1   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.

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 and 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.

5.2   Installation

Before connecting the unity 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.

These 2 printers belong to the same MPU Sorter.

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.


5.3   <u>Working modes</u>

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).
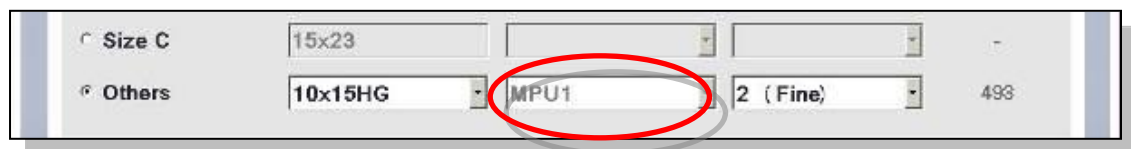
Working as a single printer

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.
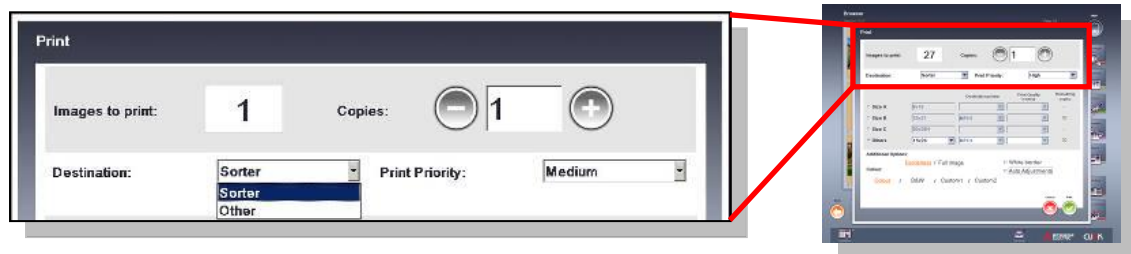
Choose the available paper size and quality in MPU Sorter. Then choose the destination MPU. In case of having more the one, both will be listed. Otherwise, the MPU Sorter unit will be the default destination.

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".

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 form the Click application manual to know how to export an order.

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.

5.4   <u>Configuration</u>

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.

Balanced

This setting is ignored by PrintServer when printing with an MPU Sorter.

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.

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.

Beep on full belt

When this option is checked, the IT5000 will beep when the belt gets full.

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.

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.

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.

5.5   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.

15x23 / 13x18 / Now! Orders

10x15
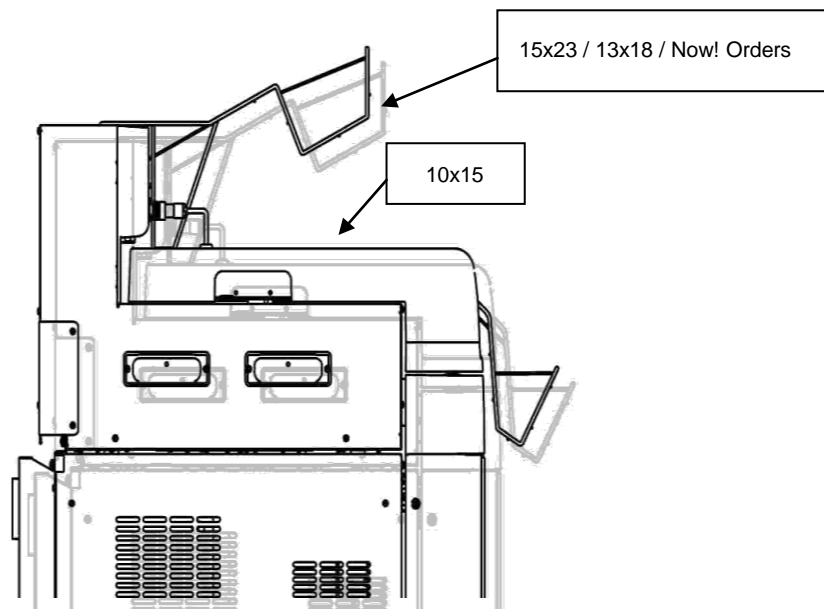
References:

Mitsubishi Electric Kiosk&Click software contains portions of imaging code based on proprietary technology copyrighted by Pegasus Imaging Corporation, Tampa, FL. ALL RIGHTS RESERVED.
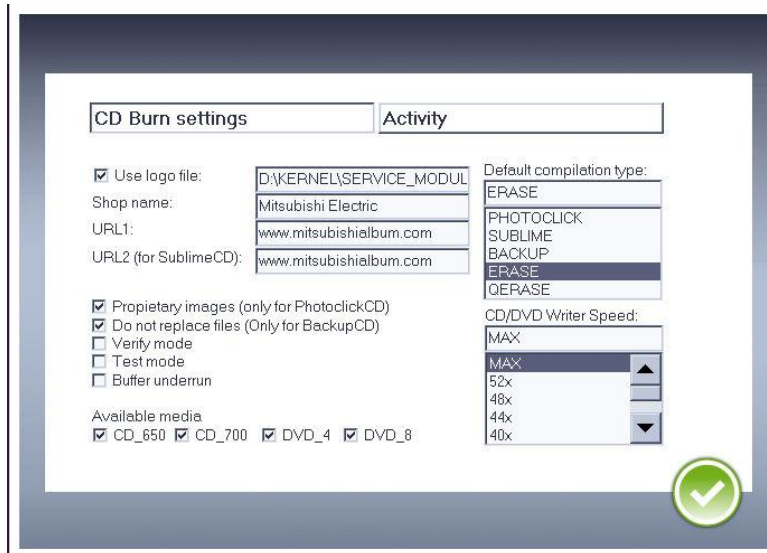
Appendix DPS Burns
Rev. 1.1

MITSUBISHI ELECTRIC

CONTENTS

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.