

# **USER GUIDE**



# MOCA ESPRESSO

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### **Printer Warranty**

Refer to the warranty statement provided with the printer for the warranty terms and conditions, and its limitations of liability.

### **Environmental Impact**

Matica is committed to reducing the environmental impact of its products through improvements in energy efficiency.

# DIRECTIVE 2002/96/EC ON THE TREATMENT, COLLECTION, RECYCLING AND DISPOSAL OF ELECTRIC AND ELECTRONIC DEVICES AND THEIR COMPONENTS

#### 1. FOR COUNTRIES IN THE EUROPEAN UNION (EU)

The disposal of electric and electronic devices as solid urban waste is strictly prohibited: it must be collected separately. The dumping of these devices at unequipped and unauthorized places may have hazardous effects on health and the environment. Offenders will be subjected to the penalties and measures laid down by the law.

#### TO DISPOSE OF OUR DEVICES CORRECTLY:

- a) Contact the Local Authorities, who will give you the practical information you need and the instructions for handling the waste correctly, for example: location and times of the waste collection centres, etc.
- b) When you purchase a new device of ours, give a used device similar to the one purchased to our dealer for disposal.



The crossed dustbin symbol on the device means that:

- When it to be disposed of, the device is to be taken to the equipped waste collection centres and is to be handled separately from urban waste;
- *Matica Technologies* guarantees the activation of the treatment, collection, recycling and disposal procedures in accordance with Directive 2002/96/EC (and subsequent amendments).

#### 2. FOR OTHER COUNTRIES (NOT IN THE EU)

The treatment, collection, recycling and disposal of electric and electronic devices will be carried out in accordance with the laws in force in the country in question.

#### For Europe

Warning

"This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures."

#### For US

"This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense".

Safe for human operation at <20cm usage conditions as SAR exempt under Title 47 CFR Part §2.1093 due to low power transmission.

#### For Canada

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

(1) This device may not cause interference; and

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Safe for human operation at <20cm usage conditions as SAR exempt under RSS-102 Section 2.5.1 due to low power transmission.

# **Table of Contents**

Adjusting the Card Thickness2-3Connecting the Power Supply and Powering ON the Printer2-4INSTALLING THE SOFTWARE AND CONFIGURING THE PRINTER3-1Connecting the Printer to the Computer and Installing the Software3-1USB connection3-2Ethernet (LAN) connection via DHCP3-3Ethernet (LAN) connection with fixed IP3-6Uninstall Program Tabs3-8Add a second printer or change the type of connection3-8
Functional Description       1-3         Front View       1-3         Operator Panel       1-3         Rear View       1-4         Power Supply       1-4         Plastic Cards       1-4         INSTALLATION PROCEDURES       2-1         Installing the Ribbon       2-1         Card Feeding       2-2         Input Hopper (Automatic Card Feeder)       2-2         Adjusting the Card Thickness       2-3         Connecting the Power Supply and Powering ON the Printer       2-4         INSTALLING THE SOFTWARE AND CONFIGURING THE PRINTER       3-1         Connecting the Printer to the Computer and Installing the Software       3-3         Ethernet (LAN) connection via DHCP       3-3         Ethernet (LAN) connection with fixed IP       3-6         Uninstall Program Tabs       3-8         Add a second printer or change the type of connection       3-8
Front View       1-3         Operator Panel       1-3         Rear View       1-4         Power Supply       1-4         Plastic Cards       1-4         INSTALLATION PROCEDURES       2-1         Installing the Ribbon       2-1         Card Feeding       2-2         Input Hopper (Automatic Card Feeder)       2-2         Adjusting the Card Thickness       2-3         Connecting the Power Supply and Powering ON the Printer       2-4         INSTALLING THE SOFTWARE AND CONFIGURING THE PRINTER       3-1         Connecting the Printer to the Computer and Installing the Software       3-1         USB connection       3-3         Ethernet (LAN) connection via DHCP       3-3         Ethernet (LAN) connection with fixed IP       3-6         Uninstall Program Tabs       3-8         Add a second printer or change the type of connection       3-8
Operator Panel       1-3         Rear View       1-4         Power Supply       1-4         Plastic Cards       1-4         Plastic Cards       1-4         INSTALLATION PROCEDURES       2-1         Installing the Ribbon       2-1         Card Feeding       2-2         Input Hopper (Automatic Card Feeder)       2-2         Adjusting the Card Thickness       2-3         Connecting the Power Supply and Powering ON the Printer       2-4         INSTALLING THE SOFTWARE AND CONFIGURING THE PRINTER       3-1         Connecting the Printer to the Computer and Installing the Software       3-1         USB connection       3-2         Ethernet (LAN) connection via DHCP       3-3         Ethernet (LAN) connection with fixed IP       3-6         Uninstall Program Tabs       3-8         Add a second printer or change the type of connection       3-8
Rear View       1-4         Power Supply       1-4         Plastic Cards       1-4         INSTALLATION PROCEDURES       2-1         Installing the Ribbon       2-1         Card Feeding       2-2         Input Hopper (Automatic Card Feeder)       2-2         Adjusting the Card Thickness       2-3         Connecting the Power Supply and Powering ON the Printer       2-4         INSTALLING THE SOFTWARE AND CONFIGURING THE PRINTER       3-1         Connecting the Printer to the Computer and Installing the Software       3-1         USB connection       3-2         Ethernet (LAN) connection via DHCP       3-3         Ethernet (LAN) connection with fixed IP       3-6         Uninstall Program Tabs       3-8         Add a second printer or change the type of connection       3-8
Power Supply.       1-4         Plastic Cards       1-4         INSTALLATION PROCEDURES       2-1         Installing the Ribbon       2-1         Card Feeding       2-2         Input Hopper (Automatic Card Feeder)       2-2         Adjusting the Card Thickness       2-3         Connecting the Power Supply and Powering ON the Printer       2-4         INSTALLING THE SOFTWARE AND CONFIGURING THE PRINTER       3-1         Connecting the Printer to the Computer and Installing the Software       3-1         USB connection       3-2         Ethernet (LAN) connection via DHCP       3-3         Ethernet (LAN) connection with fixed IP       3-6         Uninstall Program Tabs       3-8         Add a second printer or change the type of connection       3-8
Plastic Cards       1-4         INSTALLATION PROCEDURES       2-1         Installing the Ribbon       2-1         Card Feeding       2-2         Input Hopper (Automatic Card Feeder)       2-2         Adjusting the Card Thickness       2-3         Connecting the Power Supply and Powering ON the Printer       2-4         INSTALLING THE SOFTWARE AND CONFIGURING THE PRINTER       3-1         Connecting the Printer to the Computer and Installing the Software       3-1         USB connection       3-2         Ethernet (LAN) connection via DHCP       3-3         Ethernet (LAN) connection with fixed IP       3-8         Add a second printer or change the type of connection       3-8
Installing the Ribbon2-1Card Feeding2-2Input Hopper (Automatic Card Feeder)2-2Adjusting the Card Thickness2-3Connecting the Power Supply and Powering ON the Printer2-4INSTALLING THE SOFTWARE AND CONFIGURING THE PRINTER3-1Connecting the Printer to the Computer and Installing the Software3-1USB connection3-2Ethernet (LAN) connection via DHCP3-3Ethernet (LAN) connection with fixed IP3-6Uninstall Program Tabs3-8Add a second printer or change the type of connection3-8
Card Feeding2-2Input Hopper (Automatic Card Feeder)2-2Adjusting the Card Thickness2-3Connecting the Power Supply and Powering ON the Printer2-4INSTALLING THE SOFTWARE AND CONFIGURING THE PRINTER3-1Connecting the Printer to the Computer and Installing the Software3-1USB connection3-2Ethernet (LAN) connection via DHCP3-3Ethernet (LAN) connection with fixed IP3-6Uninstall Program Tabs3-8Add a second printer or change the type of connection3-8
Input Hopper (Automatic Card Feeder).2-2Adjusting the Card Thickness2-3Connecting the Power Supply and Powering ON the Printer2-4INSTALLING THE SOFTWARE AND CONFIGURING THE PRINTER3-1Connecting the Printer to the Computer and Installing the Software3-1USB connection3-2Ethernet (LAN) connection via DHCP3-3Ethernet (LAN) connection with fixed IP3-6Uninstall Program Tabs3-8Add a second printer or change the type of connection3-8
Adjusting the Card Thickness2-3Connecting the Power Supply and Powering ON the Printer2-4INSTALLING THE SOFTWARE AND CONFIGURING THE PRINTER3-1Connecting the Printer to the Computer and Installing the Software3-1USB connection3-2Ethernet (LAN) connection via DHCP3-3Ethernet (LAN) connection with fixed IP3-6Uninstall Program Tabs3-8Add a second printer or change the type of connection3-8
Connecting the Power Supply and Powering ON the Printer       2-4         INSTALLING THE SOFTWARE AND CONFIGURING THE PRINTER       3-1         Connecting the Printer to the Computer and Installing the Software       3-1         USB connection       3-2         Ethernet (LAN) connection via DHCP       3-3         Ethernet (LAN) connection with fixed IP       3-6         Uninstall Program Tabs       3-8         Add a second printer or change the type of connection       3-8
INSTALLING THE SOFTWARE AND CONFIGURING THE PRINTER3-1Connecting the Printer to the Computer and Installing the Software3-1USB connection3-2Ethernet (LAN) connection via DHCP3-3Ethernet (LAN) connection with fixed IP3-6Uninstall Program Tabs3-8Add a second printer or change the type of connection3-8
Connecting the Printer to the Computer and Installing the Software3-1USB connection3-2Ethernet (LAN) connection via DHCP3-3Ethernet (LAN) connection with fixed IP3-6Uninstall Program Tabs3-8Add a second printer or change the type of connection3-8
USB connection
Ethernet (LAN) connection via DHCP3-3Ethernet (LAN) connection with fixed IP3-6Uninstall Program Tabs3-8Add a second printer or change the type of connection3-8
Ethernet (LAN) connection with fixed IP3-6Uninstall Program Tabs3-8Add a second printer or change the type of connection3-8
Uninstall Program Tabs
Add a second printer or change the type of connection
Matia - Diata Managan
Matica Printer Manager3-9
Using the Printer Manager Instrument Bar3-9
Printers Management
Printer Manager
Status
Preferences
Maintenance
Settings
Updating the Printer Firmware
Duplex activation
Printer Status Pop-up
PRINTING
Card Printing
Card Printing Using Word
Management of the Overlay panel
Double-side Printing
Color Settings

PRINTER MAINTENANCE	
Printer Routine Cleaning	5-1
Standard Cleaning	5-1
Standard Cleaning Procedure	5-1
Card Path Advanced Cleaning	5-3
Advanced Cleaning Procedure	5-3
Cleaning Roller Advanced Cleaning	5-5
Roller Cleaning Procedure	5-5
Printhead Cleaning	5-7
Printhead Cleaning Procedure	5-7
Printing Test Cards	5-8
Printing a Text Test Card	
Printing Graphic Test Card	
Printing a Dual-Side Test Card Print head replacement procedure	
Replacement procedure	
neplacement procedure	
ENCODING OPTIONS	6-1
Chip Encoding	6-1
Encoding Test	
Test Reading the Chip Encoding	
External Encoding	
Magnetic Encoding	
Configuration	
Test and Encoding	
TROBLESHOOTING	7_1
Printer does not power on	
Printer does not power on Printer has printing problems	
Printer has problem with ribbon	
Chip Encoding problems	
Software problems	
Software problems	
RIBBONS	
CLEANING KITS	
TECHNICAL CHARACTERISTICS	

# **Product Overview**

The printer described in this User Guide provides full color dye-sublimation or monochrome thermal transfer printing on standard 54x86 mm plastic cards. PVC, PVC Composite, PET, ABS and PET cards are supported (accordingly with varnished card product configuration). It is managed from the computer through the USB port or via Ethernet/WiFi.

The ribbon carrier, that comes with the printer, allows the ribbon to be replaced quickly and easily.

A number of options are available so that the printer can be configured to operate in different types of environments:

- Magnetic encoder
- Smart Card Encoding Station
- Contact and Contactless Smart Card encoder
- 10/100 Ethernet and/or 802-11 Wi-Fi connection
- Single Card Feed Option
- Connection for external smart card encoding.

# **Getting Started**

The printer comes with a number of accessories; check carefully that they have been all received. The list of accessories may vary according to printer model.

The printer is shipped in special packaging designed to prevent damage during transportation. If any visible damage is noticed upon reception, contact the dealer immediately.

Maintain the printer packaging intact and store it in a clean and dry place.

**Note:** If the printer has to be returned, it must be returned integrally with its full original packaging (box, inner wedges and protective bags). If it is returned without its original packaging and any components are damaged during transportation, such components will no longer be covered by the warranty. Matica will also charge for the new packaging which will be required to ship the printer back.

# **Unpacking the Printer**

The following items are included in the box:

- Printer
- Software CD-ROM containing the installer, printer driver and Printer Manager
- The Placemat
- Warranty and Customer Service Information
- Cleaning kit
- Power cord
- Power supply
- USB cable
- Reject bin, optional for Moca (1)

**Note:** Contact the dealer immediately if any of the items listed above is missing. Only use the power supply provided with the printer.



# **Functional Description**

#### **Front View**



The front of the printer is the operator side and features:

- 1) Front slot (only when this option has been ordered)
- 2) Input Hopper
- 3) Operator panel and printer status indicators.

#### **Operator Panel**



The front operator panel consists of:

- 1) Icon that indicate the ON switch
- 2) ON/OFF toggle switch
- **3)** 3-color LED (amber, red and green) indicating the printer's functional status or an error condition.
  - Green On steady → Printer ready
    - Flashing  $\rightarrow$  Printer receiving data or printing
  - Amber
     On Steady → Ribbon almost finished

     Flashing → Operational error: no ribbon or card detected
  - Red

On Steady  $\rightarrow$  Mechanical error (cover open, incorrect card insertion or faulty mechanical component) Flashing  $\rightarrow$  Servicing required (during cleaning, heating, cooling or during firmware upgrade)

4) Backlit blue stripe: illuminates the Card Hopper to simplify card detection.

#### **Rear View**



The following components are located on the back panel:

- 1) Power cord socket
- 2) Two USB connectors (Type A and B)
- 3) Ethernet connector with traffic LED (option)
- 4) SD card (option) slot
- 5) Reject bin attachment slots
- 6) External smart encoder (option) connector
- 7) Kensington lock.

#### **Power Supply**

The printer comes with an external auto-switching power supply.

Note: Only use the power supply provided with the printer.

#### **Plastic Cards**

Listed below are the plastic card specifications:

٠	Туре:	Composite PVC, PET, ABS (varnished)
٠	Dimensions:	ISO CR80 - ISO 7810 (53.98 x 85.60)
•	Thickness:	0.25 to 1.25 mm (10 to 50 mil) manual gauge adjustment
٠	Magnetic stripe:	ISO 7811
•	Smart Card Contact:	ISO 7816-1,2,3,4
•	Smart Card Contactless:	ISO 14443A/B.

# **Installation Procedures**

# **Installing the Ribbon**

Original Matica ribbons are to be installed carefully. The ribbon carrier that comes with the printer helps to install the ribbon quickly, easily and accurately. Once the ribbon is in its carrier, the carrier can then be easily dropped into the printer using the yellow guides.

1) Installing the ribbon

**2)** Insert the ribbon (not provided with the printer) into the ribbon carrier.



3) Open the printing module compartment cover.



4) Insert the ribbon carrier into the printer, looking for the yellow guides that have the same color as the take-up core.

#### 5) Close the printing module compartment cover.



Note: Keep away from the printhead so as avoid damaging it.

# **Card Feeding**

The input Hopper (automatic card feeder) can hold a maximum of one hundred 0.76 mm thick cards. A label inside the door gives the instructions for correctly positioning and orienting the card.

When the single card manual feeder option is present, it can be used without needing to empty the input Hopper.

The card path can be selected via software to speed card processing:

- Hopper
- Reject bin.

The output tray in the front part of the printer has a capacity of eighty or thirty cards with a thickness of 0.76 mm, according to whether the manual feed option is present for the Moca model.

#### **Input Hopper (Automatic Card Feeder)**

1) Open the Hopper door on the operator panel by pressing at point (a) indicated in the figure below. Load the cards in the Hopper (b) and then close the door.





# **Adjusting the Card Thickness**

The card thickness can be adjusted using the wheel inside the input Hopper.

Cards with thicknesses ranging between 0.25 mm and 1.25 mm (10 - 50 mil) can be processed by the printer. Proceed as follows to adjust the card thickness:

- 1) Open the printing module compartment cover.
- **2)** Rotate the green wheel until the arrow points to the thickness of the card to be printed.





3) Close the printing module compartment cover.



### **Connecting the Power Supply and Powering ON the Printer**

Connect the power cord to the power outlet, to the power supply and then connect the power supply to the printer as shown below. Press the ON/OFF button to power on the printer.



# Installing the Software and Configuring the Printer

The CD-ROM that comes with the printer contains the following:

- Windows Vista, Seven, Win 8.1, Win 10 (supported 32 and 64 bit) printer driver for USB, Ethernet LAN and Wireless connections (if supported by the purchased model)
- Printer Manager application
- PDF User Guide
- Setting up your Printer in PDF format.

### **Connecting the Printer to the Computer and Installing the Software**

1) Power on the computer and then insert the CD-ROM into the drive. Follow the instructions displayed by the setup program.

Note: Do not connect the printer yet; the setup program will instruct when to do so.



2) The setup program residing on the CD-ROM executes automatically and the following screen is displayed:

**Note**: if the configuration program is not run automatically, proceed in manual mode as indicated below:

- Select system resources> CD-ROM/DVD
- Double click on the installation program. The following language selection page is displayed.
- Confirm with **OK**. The display shows:



**3)** Click **Next** and then "I accept the agreement" to accept the licence agreement. Then, click **Next**. The display shows:



- 4) Click Next. The installation program will ask you to indicate the folder in which to save the files (the disk space necessary for installation is indicated at the bottom of the screen page).
- 5) Click Next. A prompt is displayed regarding program user privileges. Choose between For all the users and only for current user; then click Next to continue. A summary screen page with the settings selected is displayed.
- 6) Click Install. On completion of the installation procedure, the following screen page is displayed:



**Note**: a Windows message may be displayed asking whether the installation driver is to be considered reliable. In this case, confirm, selecting **Install**.

7) Click Finish to terminate installation.

The system requests restart of Windows to complete installation.

### **USB** connection

On completion of installation, the system is ready to use the printer with USB connection.

Switch on the printer and connect this to the computer using the USB cable.

# Ethernet (LAN) connection via DHCP

The **Add Printer Wizard** program permits selection of printer connection mode. The options are: Ethernet/LAN or Wireless (WiFi).

- Note: To run the Add Printer Wizard program manually, activate this from the Start > Programs > Matica menu.
- **Note:** The configuration of the connection can be modified at any time activating Wizard mode from the **Add Printer Wizard** program.



Click the LAN button in the screen page of the Add Printer Wizard program.

🗊 Espresso / Moca Printer Installer	
AA	
Is your printer already connected to the network?	
No, this is the first time I'm connecting the printer (USB connection required)	
Yes, the printer has already been configured	
Back Next Cancel	

For first-time configuration of the printer select, No, this is the first time... and then Next.



Check that the printer is ON and connected with the USB cable. Do not connect the network cable to the printer, then click **Next**. The configuration software displays the following screen page:

Espresso / Moca Printer Installer	x
	~~
Setup printer LAN connection	
DHCP Network installation	
Fixed IP Network installation	
<u>B</u> ack Next	Cancel

Select DHCP Network installation network mode and click Next

**Note**: for further information about the specific company network, contact the network administrator. Automatic selection of DHCP Network Installation is advisable for the most common types of installation.



Check that the printer is ON, disconnect the USB cable and connect the network cable. Click **Next** to continue.

Espresso / Moca Pr	inter Installer	×
	Search Network (be sure the printer is Start	
IP Address	Printer name	MAC Address
Select the printer and d No printer found? Be su to change the LAN setu	re that the printer is on, then clic	k Start or click Back
1	Back	Next Cancel

Click Start to search for the network printer and wait until this has been identified.

1	Espresso / Moca Printe	r Installer	×
			$\sim$
	(b	Search Network Pri e sure the printer is sw	
	IP Address	Printer name	MAC Address
	192.168.22.20	ESPRESSO0002445	bc:34:00:80:09:8d
	Select the printer and dick N No printer found? Be sure th to change the LAN setup.	lext. lat the printer is on, then dick S	tart or click Back
		Back	Next Cancel

If the printer is not found, click **Start** to repeat the search for the network printer and wait until this has been identified.

Once it has been found, the printer is shown in the list of available printers accompanied by the related information (IP address name of the printer, Mac address).

Click **Next** and wait until the configuration software recognises the printer.



Click **Next** and wait until the configuration software displays the message indicating that installation has been completed successfully.

Espresso / Moca Printer Installer	x
	~~
Install	ation Completed
	Easy Installer has finished to install the printer software in your computer. Click Finish to exit Easy Installer Switch-off the printer and reboot the PC: Make sure that the LAN cable is connected and the USB cable is disconnected
	<u>Back</u>

Terminate installation clicking **Finish** and follow the instructions shown on the display.

# Ethernet (LAN) connection with fixed IP

The **Add Printer Wizard** program permits selection of printer connection mode. The options are: Ethernet/LAN or Wireless (WiFi).

- Note: To run the Add Printer Wizard program manually, activate this from the Start > Programs > Matica menu.
- **Note:** The configuration of the connection can be modified at any time activating Wizard mode from the Add Printer Wizard program.



Click the LAN button in the screen page of the Add Printer Wizard program.

💭 Espresso / Moca Printer Installer	×
~	
Is your printer already connected to the network?	
No, this is the first time I'm connecting the printer (USB connection required)	
Yes, the printer has already been configured	
Back Next Cano	el

For first-time configuration of the printer select, No, this is the first time... and then Next.



Check that the printer is ON and connected with the USB cable. Do not connect the network cable to the printer, then click **Next**. The configuration software displays the following screen page:

×
$\sim$
Cancel

Select Fixed IP Network installation network mode and Click Next

**Note**: for further information about the specific company network, contact the network administrator. Automatic selection of DHCP Network Installation is advisable for the most common types of installation.

A screen page is displayed for manual entry of network parameters (in the case of part of a company network, it may be necessary to contact the network administrator for further information).

Espresso	o / Moca Printer Installer					×
						<u>^^  </u>
					-	••
	IP address					
	Subnet mask					
	Gateway address		•			
				_	_	_
		Cont	igure		, li	
		Back		<u>N</u> ext		<u>C</u> ancel

Click Configure, wait for insertion of network data and click Next.



Click **Next** and wait until the configuration software displays the message indicating that installation has been completed successfully.



Terminate clicking **Finish** and follow the instructions shown on the display.

### **Uninstall Program Tabs**

To uninstall the software:

1) in Windows 7, Windows 8.1/10, select Programs and Features > Matica Espresso Driver/manager v.1.34.xxx..

Note: Alternatively, remove manually the DCP Matica applications.

- 1) in Windows 7, Windows 8.1/10, run the program
  - C:\Program Files (x86)\Matica\Espresso\unins000.exe.

### Add a second printer or change the type of connection

On terminating the installation, the program *Add Printer Wizard* appears in the Windows Start menu > All Programs > *Matica* > *DCP*.



Using this program you can run the program Add Printer Wizard Program communication at any time to add or modify a printer connection of type USB, LAN or WiFi.

This allows you to choose the type of connection you want to use without having to repeat the installation from the start, maintaining also a number of printers connected to different communication ports (USB, LAN, WiFi) in the Windows spooler.



# **Matica Printer Manager**

Upon successful installation, the following programs are installed on the computer:

- Add Printer Wizard
- Espresso Printer Manager software to manage the printer
- Setting Up Your Printe in PDF formatr
- User Manual in PDF format.



#### **Using the Printer Manager Instrument Bar**

The Windows toolbar includes the Matica application logo that, when clicked, displays a popup window from where the Printer Status can be launched. Left-clicking the related icon on the instrument bar opens the Printer Manager program.

Right-clicking the related icon on the instrument bar opens the Windows menu popup program.

	Printer Manager	
$\checkmark$	Popup Jobs Status	
	Quit	

The menu consists of the following:

- Printer Manager: Opens the Printer Manager program
- Popup Job Status
- Quit: closes the program.

#### **Printers Management**

The Printers Management window is displayed, as shown below, when the program is executed from the Application bar or from Windows programs.

All the printer drivers installed on the computer are displayed in this window. From here, the Printer Manager can be launched for a given printer by double-clicking on the related printer name.

The following information is available in this window:

1) **Printer Name**: the name of the printer is displayed in this area. The printer name can be defined by the user during the installation; if is not defined by the user, it will be defined from the program during the installation in which case it will be composed of the printer name and the port where it was connected during installation.

Double clicking the printer name opens the Printer Manager.

- 2) Connection: the following connectivity is supported:
  - USB (Local Connection)
  - WiFi Access Point (Printer Internal Router)
  - LAN (cable)
  - WLAN (WiFi).
- 3) Printer Status: this area can provide the following information:
  - a) Ready Standby
  - b) Off-line
  - c) Job underway Error (with a brief description of the error)

# **Printer Manager**

Open the <b>Print Manager</b> b	by double	e-clicking	in the Ap	plication b	oar icon	<u>^</u>	
	∞	Ν	Matica Printer Mana	ger - ver 1.01 (09jun1	4)	×	Γ
	Status Status Preferences Mantenance Encoding Encoding Settings	Printer Status Printer Status Remaining Robbon Rritio mising Lobs List Joh ID	мо		ready	0%	1
						Back.	

1) Information regarding the printer installed, or on its configuration, is displayed in this area. These contents are associated to the icon button displayed on the left hand-side of the window.

The following Printer Manager function icon buttons are provided:

- Status
- Preferences
- Maintenance
- Encoding (only for the models supporting this feature)
- Settings
- Help.

Click **Back** to return to the printer management window.

Note: The Encoding icon will be displayed only when the Encoding option is available.

#### **Status**

This is the initial opening page of the program.

MOCA busy MOCA busy		Ma	tica Printer	Manager - ver 1	.01 (09jun14)		
Are List         Submitted         Current Operation           4         Pagina di p         33%         working         13-06-2014 13:         printing panel Yellow on f           3         Pagina di prova         0%         sborted         13-06-2014 13:29.26         winched-oil	Remaining Robor		M	DCA	bu	ısy	
4         Pagina di p         33%         working         13-06-2014 13:         printing panel Yellow on f           5         Pagina di prova         0%         aborted         13-06-2014 13:29:24         witched-off	Jobs List						
3 Pagina di prova 0% aborted 13-06-2014 13:29:24 switched-off	OI dol.						
	ance 4						Yellow on f
	3	Pagina di prova			13-06-2014 13:29:24		
Back							

The following information areas are available: 1) Printer Status – 2) Ribbon Status - 3) Job List.

#### Printer Status Area

The printer status and error or warning messages are displayed in this area. The possible conditions are: Ready, Busy, Offline, Error.

#### Ribbon Status Area

Ribbon-related information is displayed in this area.



- 1) Type of ribbon installed.
- 2) Remaining ribbon capacity indicator: this indicator shows a percentage of how much ribbon can still be used.

#### Job Status Area

A job queue is displayed in this area when a printing is underway.

Job ID		Job Name	Percent	Status	Submitted
⊿ 1		Test Card 1	88%	working	10:21:40
	1	Encoding		100%	done
	2	Printing		100%	done
	3	Laminating		57%	working
<b>⊿</b> 2		Test Card 2	66%	working	10:22:30
	1	Encoding		100%	done
	2	Printing		80%	working
	3	Laminating		0%	waiting
⊳ 3		Test Card 3	19%	working	10:23:50
⊳ 4		Test Card 4	0%	waiting	10:25:00
•					•

#### **Preferences**

Open the **Preferences** by clicking on the icon

This button to run the printer driver user interface program from where Printer Preferences and other printer parameters can be set.

It provides a short-cut to the printer driver program without having to exit the Printer Manager. The first tab displayed by default is the Card tab.



- 1) Card Type: makes it possible to set the type of card and front/rear printing.
- 2) Card Path: makes it possible to select the output and bin for the card to be printed.
- 3) Print Orientation: select the orientation (portrait, landscape, 180° rotation) and the print on both sides.

Click OK to store the user settings, click Restore Default Settings to clear the user settings and restore the factory default settings.

#### Maintenance

Open the **Maintenance** by clicking on the icon *Solution*. From this area you can test the print quality using the test card layouts and launch the printer cleaning routine.



In this environment you can run:

1) Test Card, for printing a test card – 2) Cleaning, for standard or advanced card cleaning.

Click on **Back** to return to the Status screen.

#### **Encoding (optional)**

Open the **Encoding** by clicking on the icon \_\_\_\_\_. If available, this feature enables magnetic encoding and the retrieval of the Smart Card ATR number.

		м	atica Printer Manager		×	
Status	Magnetic Encoding Track 1		read / write	result	-3 <sup>04</sup> 2	
Preferences	Track 2 Track 3	Load	Encode Read	Eject	A <sup>552</sup> 3	
Mantenance	Chip Encoding Encoder	Gemplus USB Smart Card Rea	ler 0	•		
	ATR message	Load	Read ATR	fjet	۵)	
Encoding						
Settings					Back	

The following can be defined in this area:

- 1) Magnetic encoding: test the module and single card read/write on the magnetic stripe of the card
- 2) Chip encoding: test the module and read the ATR of smart cards.

Note: Refer to Chapter "Encoding option" for more information.

#### **Settings**

Open the **Settings** by clicking on the icon **I**. Duplex activation, Energy Savings, Firmware Updates and Options can be configured in this area.

	Matica Printer Manager - ver 1.01 (09jun14)	×	
Status	Effering Sileep sher 10 minutes Standby after 10 minutes		1
Preferences	Ferminate           Version Installed           MOCA 1.00.36   Ferminate Lipitate		2
Maintenance	Duplex Activation please put the plastic RFID card near the red M on the right printer side and press the STARTI button STARTI		3
Enceding	Options Magnetic Decoder		4
Settings			
		Back	

- 1) Energy saving parameters.
- 2) Firmware Update.
- 3) Duplex activation settings.
- 4) Options installed on the printer.

Click Back to return to the Printer Status screen.

#### **Energy Saving**

Set the energy saving features in this area.



#### Sleep

Selecting or deselecting the Enabled check box enables or disables, respectively, the Sleep feature.

If Sleep is disabled, Standby mode also is disabled, and therefore the sleep time is set to the factory default value of 5 minutes. To set the time field when Sleep is enabled, set the value using the sidebar arrow buttons or enter the value directly. The selectable range is from 1 to 240 minutes, in steps of one minute.

#### Standby

Selecting or deselecting the Enabled check box enables or disables, respectively, the Standby feature.

Standby mode is active only if Sleep mode is enabled. When Standby is enabled, set the time using the sidebar arrow buttons or enter the time directly. The selectable range is from 1 to 1440 minutes, in steps of one minute.

Note: A time less than or equal to the standby time is not allowed.

#### **Updating the Printer Firmware**

Firmware	Version Installed		
	ESPRESSO PLUS 1.01.48	Firmware Update	

The Version Installed field shows the current version of the printer firmware.

Click Firmware Update to launch the Update Firmware wizard.

#### **Duplex activation**

Two-sided printing can be enabled in this environment (for more information refer to the documentation provided with the option).

#### **Options**

Options Installed: Codes of the options installed.

### **Printer Status Pop-up**

The Printer status pop-up consist of a card window containing several areas that the software compiles in real time every time the pop-up needs to be displayed.



- 1) Printer Name area: the printer's default name or its name assigned during installation is displayed in this area.
- 2) Status Description area: the error code or error description is displayed in this area.
- **3)** Status Solution Area: the troubleshooting message related to the error detected and displayed in the Status Description Area, is displayed here.
- **4) Utility Command Bar:** displayed only when the Pop-up is static and user intervention is required. The status error table describes how the utility bar is managed.



- a- RETRY : click to resend a print job once an error condition is cleared. Clicking this button causes the pop-up to disappear; if the error is not cleared the pop-up will be displayed again.
- b- Leck to remove a print job from the printer spooler.

# Printing

# **Card Printing**

Cards are usually printed and encoded by a Printer Application chosen by the User. However, if required, a compatible non-proprietary Application is available as an option for designing and printing cards. Cards can be customized (logo, image and name) by creating graphic images and defining page formats.

The Printer Application recognizes the printer, allowing the User to create fully customized card jobs.

#### **Card Printing Using Word**

There are a large number of Windows applications that allow document printing (for example Microsoft Office® suite tools such as MS-Word®, MS-Access®, MS-Excel® and MS-PowerPoint®).

An example is provided below:

Using Microsoft® Word

- 1) Run the MS-Word application. In the Menu bar, click File then Page Setup.
- 2) In the Card tab, select the card Size option followed by the custom format 55x85 mm (default format).
- 3) If using Word 2010/2013: select the Page Layout tab. For Size, select Custom format.
- 4) In the Margins tab, set all margins to '0' and select Landscape for the Orientation.
- 5) Close the window by clicking OK.
- 6) The card can now be customized by adding the various items composing the card:
  - Logotype, illustrations, Identification photo
  - Fixed and variable texts
  - Barcode, etc.

Once the operation is complete, click File followed by Print.

- 7) Click Print or click on the printer icon. Select Matica printer.
- 8) Select Properties to customise the print options from this screen:
- 9) Select the Output choosing between Output Hopper or Rear Bin.

Card Type Garance (BS.6 x 54)	Front C. Format @ Landecape [ [100"Retation]	
Card Path Output Output Hopper ¥ Report Bin Fleer Bin		
		Defaults

10) Click the Media tab to configure specific settings such as:

- Ribbon Identification
- Color Panel Adjustment (brightness, contrast, sharpness)
- Overlay Panel Adjustment
- K Panel /Monochrome Adjustment (greyscale, black text, etc..)

Autobetect: Manual Selection: RFID missing (2MDKD)	Overlay Panel Adjustment           Front           Mode           sccording to card mark           Energy
Color Panel Adjustment	K Panel/Monochrome Adjustment Front Pref on K Black tool and objects Errorgy A
	Defaults

#### Management of the Overlay panel

This function, available in the print driver, is used to print a card using one of the following overlay functions available:

- According to card mask the overlay function is applied only to previously defined areas
- Nothing no overlay function
- User bitmap used to print a card from a file that contains the same background graphics without
  having to retransmit the background information in each print file. If used correctly, may improve printing
  efficiency.



In the case of a Half panel, it is possible to select whether the panel with Overlay is to be applied to the entire card (**Full flag on**) or only to the zone corresponding to the colour half panel (**Half flag on**).

#### User bitmap type overlay

Selecting the "user bmp" function from the drop-down menu, it is possible to select the areas to which the Overlay is to be applied. To do this, create a file with **bmp** extension and colour depth at 1 bit (e.g. with the Microsoft Paint application) in which the areas in which to apply the Overlay are coloured. Selecting this file from the drop-down menu, the Overlay will be applied to the black areas as indicated in the file selected.

### **Double-side Printing**

- 1) Select **Properties** from print properties to personalise printing options:
- 2) Check the box selection **Dual side printing** for front and back printing.
- 3) Click **OK** to store the settings made and print the card.

Note: Two-sided printing is optional (installation of the Duplex Kit is required).

CR80 (85.6 × 54)	Prott @ Portrait O Landicape I 100* Relation	~~
Output     Output     Output     Output     Output     Regret Bin	Badi Portrat Landicape 100*Rotation	

If **Dual-sided** printing was selected, by clicking the **Media** tab of **Printer Preferences** the following parameters for the two sides of the card can be selected independently:

- Color Panel Adjustment (brightness, contrast, sharpness)
- Overlay Panel Adjustment
- K Panel /Monochrome Adjustment (greyscale, black text, etc..)

Autodetect:	fication Manual Selection:	Overlay Panel Adjustment
ҮМСКО	УМСКО 💌	Mode according to card mask
Back Mode:	<ul> <li>Full Color (YMC)</li> <li>K panel only</li> </ul>	Energy 2 A P
olor Panel A	Adjustment	Beck Mode according to card mask
12 二下	ontrast	Energy 2 2 0
2	<u>· · · ' 🙎</u> 📧	
🤨 - s	hapness . 🧏 🚹	K Panel/Monochrome Adjustment
Back		Print on K black text and objects
🙍 🗥 🔪	ghtness 	Energy 22 2 @
۵ <u>۲</u>	ntrast	Back Pint on K Islack text and objects
Sh	apress . 🥻 4	Erway 🖹 🔄 🕺 🖗
		Defaults

**Note**: The **Back Mode** button default selection optimizes the consumption of the ribbon installed in the machine. A different setting other than the default can be selected but this means enabling the printer to consume a greater amount of ribbons.

# **Color Settings**

To customize color printing, click Printer Driver Properties and then click the **Printer Driver Preferences** tab.



You can modify the saturation of each colour being printed by moving its related cursor.

When the cursors are moved, the image with the coloured pencils illustrates how the settings change.

However, to be sure that the actual result obtained meets your expectations, it is necessary to run a few print tests.

Click **Defaults** to restore the factory default settings.

# **Printer Maintenance**

# **Printer Routine Cleaning**

Four different cleaning processes are implemented in the printers.

# **Standard Cleaning**

Suggested frequency:

- Color printing: Each time the ribbon is changed
- Every 1,200 cards printed.
- Standard cleaning is performed using the specific cleaning card as explained below.

The product has an internal counter that keeps track of the number of cards printed and warns the user when the mandatory cleaning procedure must be performed.

2) Remove the ribbon carrier.

#### **Standard Cleaning Procedure**

1) Open the printing module compartment cover.



3) Close the printing module compartment cover.



**4)** Use the cleaning card CR80 (**A**) or the extended Card (**B**). Remove all the protective film.





CR80 (A)

**5)** Insert the cleaning card (**A**) in the rear slot of or the printer.

The adhesive surface should remain at the top.

A

insert the extended card (**B**) in the rear slot of the printer as represented in Figure. The adhesive surface is on both sides.



6) Open the **Printer Manager** and click the **Maintenance** button. The Maintenance window is displayed.

8	Matica Printer Manager -	ver 1.01 (09jun14)
Status	Test Card	
Preferences	Cleaning	
Maintenance	Standard Panels proted ence last cleaning Estar Cleaning Estar Cleaning	Advanced
Encoding	before pressing the botton, please remove the ribbon cardinidge and set the sticky card in back slot	before pressing the botton, please remove the ribbon cartifridge and set the T-card in back slot
Settings		
		Back

7) The counter indicates the number of cards that have been printed starting from the last cleaning operation performed. Click the Standard Cleaning button to start the cleaning procedure. Once the cleaning procedure is completed, the card is ejected from the rear slot and the counter is reset.



**8)** Re-insert the support and close the print module compartment. The cleaning procedure has been completed.

# **Card Path Advanced Cleaning**

The card path advanced cleaning procedure is required after performing five Standard cleaning procedures:

- The special (alcohol impregnated) T-card must be used.
- The procedure involves cleaning the card path, removing the dust on the rollers and cleaning the magnetic head.
- The printer has an internal counter that stores the number of Standard cleaning procedures performed, so as to notify when the Advanced Cleaning procedure is required.
- A software-guided procedure will assist in carrying out the cleaning operations.

#### **Advanced Cleaning Procedure**

**1)** Open the printing module compartment covers.

2) Remove the ribbon carrier.





**3)** Close the printing module compartment covers.



4) Insert the T-card into the rear slot of the printer.



5) Open the **Printer Manager** and click the **Maintenance** button. The Maintenance window is displayed.



6) The counter indicates the number of cards that have been printed starting from the last cleaning operation performed.

Click the **Advanced Cleaning button** to start the cleaning procedure. Once the cleaning procedure is completed, the card is ejected from the rear slot and the counter is reset.



7) Re-insert the support and close the print module compartment. The cleaning procedure has been completed.

### **Cleaning Roller Advanced Cleaning**

It is suggested to perform an advanced cleaning of the cleaning roller when the standard cleaning procedure does not efficiently remove all the dust from the cleaning roller.

#### **Roller Cleaning Procedure**

- **1)** Unplug the printer from the power supply.
- 2) Open the printing module compartment covers.
- 3) Remove the ribbon carrier.





4) Identify the roller.

**5)** Remove the roller by extracting it parallel to the printing module and slightly upwards, until hearing a release click.





6) Clean the roller using water and dry it.
7) Reinsert the roller, pushing it into its seat, pressing downwards and parallel to the surface of the printing module.



8) Re-insert the support and close the print module compartment. The cleaning procedure has been completed.

## **Printhead Cleaning**

It is advisable to clean the printhead when light-coloured or white streaks appear on the printed card in the direction of printing:

- The edge of the printhead must be cleaned using the special impregnated swab or the cleaning pen.
- The edge of the printhead must be cleaned to remove residual ink or dust.

## **Printhead Cleaning Procedure**

- **1)** Unplug the printer from the power supply.
- 2) Open the printing module compartment covers.
- 3) Using the cleaning swab that is provided in the Cleaning Kit, clean the printhead by rubbing the swab it in the direction indicated by the arrow in the figure below.



**4)** Re-insert the support and close the print module compartment. The cleaning procedure has been completed.

## **Printing Test Cards**

Test Cards are used to check that the printer is operating correctly and to obtain some important printing parameters.

Open the **Printer Manager** and click the **Maintenance** button. The following screen is displayed.



### **Printing a Text Test Card**

In the Test Card area, click the **Text** button to launch the Monocromatic Test Card print quality test. Used mostly when a monochrome ribbon is installed or to test the black panel in a multi-panel ribbon. Printer information is printed on the Text Test Card.

#### **Printing Graphic Test Card**

In the Test Card area, click the **Color** button to launch a Graphics Test Card print quality test. It is mainly used when a multi-panel ribbon is installed.

### Printing a Dual-Side Test Card

In the Test Card area, click the **Dual Side** button to launch the Dual-Side Test Card print quality test. The button is displayed only when the front-rear printing function has been activated on the printer.

## Print head replacement procedure

As the print head is the most important component of the printer, it is advisable to carry out the recommended cleaning procedures in order to guarantee maximum quality at all times and longest possible service life.

However, the print head may become worn and must be replaced after a certain period of time.

#### **Replacement procedure**

- 1) Unplug the printer from the power supply.
- 2) Open the printing compartment module cover.



4) Remove the earth wire and the connector, connect these to the **new** print head and make a note of the **PH code number**  **3)** Remove the print head. Press in the direction indicated by the arrow to loosen the spring and to release this from its housing.



**5)** Insert the new print head. During re-insertion, press with the sphere present in the tip of the print head on the point indicated in the figure and rotate it slightly in order to insert it in its housing.





- 6) Close the printing compartment module cover.
- 7) Connect the printer to the power supply, switch on and connect it to a computer with the USB cable.



8) On the computer on which the Matica Print Manager program has been installed, select the **Maintenance** environment and press the "**Print Head Replacement**" button. The following screen page is displayed:

Stato	Carte di Test
Preferenze	Puliae After Print Head Substruction, Type Inside the following from the full PH mode (cose the label in the laft image)
Manutenzione	Warning:     The steps for the physical substitution of the Print Head     are docor/bod in the epecific page of the User Manual     Pl Loode number:
Codifica	ed riserre la Stocy Card nella bocchetta posteriore nella bocchetta posteriore
Impostazioni	Print Head Replacement

- 9) Enter the **PH code number** and confirm with the **Insert** button.
- **10)** The print head replacement procedure has been completed; standard cleaning and cleaning of the print head will be requested. Follow the instructions shown on the display.

# **Encoding Options**

## **Chip Encoding**

The Chip Encoder is an optional module for the Espresso products that allows the encoding of chip cards (smart cards).

Available chip encoding modules and related functionalities:

•	CHIP ENCODING STATION COMBO PCTWIN + OMNIKEY Allows you to run chip encoding on contact cards (via Chip PCTwin) and on cards out contacts (via Chip Omnikey)	with Code <b>PR000015</b>
•	CHIP ENCODING STATION CONTACT PCTWIN Allows you to run chip encoding on contactless cards only (via Chip PCTwin)	Code <b>PR000024</b>
•	CHIP ENCODING STATION CONTACT OMNIKEY Allows you to run chip encoding on contact cards only (via Chip Omnikey)	Code <b>PR000025</b>
•	CHIP ENCODING STATION CONTACTLESS OMNIKEY Allows you to run only on chip encoding contactless cards (via Chip Omnikey)	Code <b>PR000026</b>
•	<b>CONTACT STATION AND EXTERNAL ENCODER CONNECTION</b> Allows you to run chip encoding using an encoding system off the printer	Code <b>PR000020</b>
•	<b>CONTACT STATION FOR CHIP ENCODING</b> Allows you to run chip encoding with user-selected. Encoder boards other than those proposed by Matica	Code <b>PR000223</b>

Install the module according to the instructions contained in the package.

### **Encoding Test**

**Warning:** Before proceeding with the configuration of the module make sure the printer is turned on and connected to your computer via USB.

*Warning:* before proceeding with encoding operations, download the driver compatible with the O.S: used in the PC from the site of the encoder board manufacturer.

### Test

Open **Printer Manager** and click the **Encoding** button. The following screen is displayed from where it is possible obtain the Smart Card ATR number.

Matica Printer Manager - ver	1.14 (03dec14)				
	Magnetic Encoding				
			read / write	result	
	Traccia 1				RC12
Stato	Tracca 3				A 3
Vim	Can	camento	Codifica Lettura	fsp.isone	<ul> <li>Low CoerdVity</li> <li>High CoerdVity</li> </ul>
Preferenze	Chip Encoding				
	Encoder	-			🗇 contact
	0.00	Gemplus USB SmartCard R Gemplus USB SenantCard OMNIKEY CardMan 5x2	d Reader 0	-	contactless
	ATR message	Owners Cardwan 5x2	7+010		
Manutenzione		Caricamento	Lettura ATR	Espulsione	
( Contraction of the local section of the local sec					
Codifica					
Impostazioni					

### **Reading the Chip Encoding**

This area provides the ATR number of the contact card. This operation is performed to ensure that the contact encoder is working correctly.

	Chip Encoding				
	1000				🔘 contact
	Encoder	Gemplus USB SmartCard Rea		•	
		Gemplus USB SmartCard F OMNIKEY CardMan 5x21-			contactless
0	ATR message	official condition pier			
U					
		Caricamento	Lettura ATR	Espulsione	
			2	3	

Selecting the Encoder option from the drop-down list, choose the type of encoder you require. If only one encoder is available, this option is not active.

#### 1) Load Button

Click to start a batch job, consisting of:

a) Taking the card from the selected or default input (see card path in the printer driver Card tab)

b) Moving the card to the contact encoder.

#### 2) Read ATR Button

Click to read the contact card's ATR number.

For the ATR Number to be read, the card must be positioned in the contact encoder by clicking **Load**. The encoder then reads the card and displays the ATR number in the window. The encoder reads and displays the ATR number until clicking the Eject button, at which point the card is moved from the encoder to the output specified for the card path *(see card path in the printer driver Card tab)*.

#### 3) Eject Button

Click to move the card that has been left inside the printer to the selected or default output. (see card path in the printer driver Card tab).

## **External Encoding**

The machine configured with an external encoder is equipped with a specific 12-pin connector, configured in the following way:

	Pin	Name	Description
	1	C8	RFU
	2	C4	RFU
	3	C7	I/O
	4	C3	CLOCK
	5	C6	VPP
	6	C2	RESET
	7	C5	GND
	8	C1	VCC=5V
	9	CDD_NO	CARD DETECT NO
Binder female socket 12 ways black connector 720 series	10	CDD_NC	CARD DETECT NC
p/n 99 9136 00 12	11	Free	
	12	Free	

A sequence of commands must be sent via the printer interface to insert a card into the printer, position it under the station and establish contact. Sending the command sequence:

- A card is moved automatically from the feeder to the encoding station and stops. The contact station is pushed downward to make contact with the card
- The chip can be programmed via the external coupler.

## **Magnetic Encoding**

The magnetic encoder module is installed in factory and printers with this option are proposed with specific product codes.

The printer with MAG encoder compatible with ISO standards is available and, on request, the MAG printer that complies with JISII regulations for Japan may be available.

### Configuration

To print using the Magnetic Encoder, enable these modules on the printer so that the printer driver can use them correctly.



- 1) Set the **Coercitivity** values from High, Low.
- 2) Set the "Standard" encoding preferences. With this drop down menu is possible to set which standard to use for encoding the cards. These are the possible choices: ISO (Default) ISO 7811 Standard or JIS-2 Japanese JISB9561-1979 Standard.
- **3) Tracks** (ISO Standard), With these commands, for every single track, is possible enable / disable the track and make the ISO Standard choice.

**Track 1, Track2, Track 3:** with the selection boxes is possible enable/disable the tracks, with the drop down box is possible choose the standard ISO. The possible choices of Standard ISO in the drop down menu are:

Standard	Track 1	Track 2	Track 3
ISO1	DEFAULT		
ISO2		DEFAULT	
ISO3			DEFAULT

**Tracks (JIS-2 Standard)**: If the JIS-2 standard is choose appear only the track 1 and in the drop down menu is possible only chose the JIS-2 standard. The possible choices of JIS-2 standard in the drop down menu are:

Standard	Track 1
JIS-2	DEFAULT

4) Mag strip start/end sentinels: with these command is possible to set the "Special Character Strings" used for the in-line magnetic encoding. These special characters are placed at the beginning and end of the characters that we want to write in the magnetic fields, for more details please refer to the rule ISO7811. Every Start and end sentinel must have the possibility to manage until of 3 characters each. In the drop down menu there are two type of choices:

- Default: the strip start/end sentinels Characters are the Standard DCP and they are not editable.
- Personalized: the strip start/end sentinels Characters are editable by the user.

In the "begin" and "end" boxes is possible display or set the specials characters. Every row correspond to a track. For each track, you can use up to a maximum of three characters, always followed by the track number as follows:

*track 1: start= -%1 end=? track 2: start= -%2 end=? track 3: start= -%3 end=?* 

## **Test and Encoding**

The magnetic card is read and written in the magnetic encoding area.

		read / write	result	
	Track 1			and the second se
	Track 2			BC12
	Track 3			A 3
	· ·			
	Load	Encode Read	Eject	
2				

1) The Track Area contains the fields (ISO Standard or JIS-II Standard) where the magnetic tracks can be read or written.

Printer DriverTrackTrack StatusLabel		Track Window	Result Box
Enabled	Black	Active (inside, the text displayed in grey shows how the track is set for the printer driver)	Active (empty)
Disabled	Grey light	Not Active, the background is slightly grey (inside, the text displayed in light grey shows how the track is set for the printer driver)	Not Active (empty)

When the read mode is selected, the characters read are displayed in the Read/Write window. When the write mode is selected the characters to be encoded are written in this window.

In the write window, certain checks have to be performed on the characters typed. Characters have to be compatible with the ISO or JIS-II standard chosen for the printer driver, otherwise an error message is displayed.

#### 2) Load Button

Load

Encode

Click to start a batch job, consisting of:

a) Taking the card from the selected or default input (see card path in the printer driver Card tab)b) Moving the card to the magnetic encoding area.

#### 3) Encode button

Click to encode a magnetic card.

To encode the card, it must firstly be positioned in the magnetic encoder by clicking Load.

- a) Card encoding: for the enabled tracks, reads the characters written in the track window and encodes them.
- b) The results window displays whether the operation was executed correctly or not.
- c) Upon completion of the card writing, the card remains in the magnetic encoding area until clicking **Eject**, at which point the card is then ejected to the specified card path.
- d) If an error occurs during encoding, the card is sent to the Reject bin.

#### 4) Read Button

Read

Click to read a magnetic card.

To read the card, it must firstly be positioned in the magnetic encoder by clicking Load.

- a) For enabled Tracks, it displays the value read in the track windows. In the results window, it indicates whether the operation was executed correctly or not.
- b) Upon completion of the card reading, the card remains in the magnetic encoding area until clicking **Eject**, at which point the card is then ejected to the specified card path.

## 5) Eject Button

Eject Click to move the card that has been left inside the printer to the selected or default output *(see card path in the printer driver Card tab).* 

# Trobleshooting

## Printer does not power on



## **Printer has printing problems**



-	<b>─</b>	USER
Defects in Print Quality	•	Single or Multiple horizontal lines: clean the printhead using a swab or pen as described in the User Manual
	•	Dots appear on printout due to dirty cleaning roller: clean with water as described in the User Manual
	•	Partial printing or dots due to dirty cards: use only clean cards
	•	If printout colours or appearance are not satisfactory, modify the Brightness, Contrast and Sharpness values in Printer Preferences and check printout improvement
	•	Red marks appearing on printouts: these may occur when printing dark images with high contrast and brightness settings. To eliminate them, reduce the "contrast" and "brightness" values in the "colour settings" menu on the "ribbon/preferences" page

	→ USER
Printer takes up the card but remains blocked	• The card thickness setting does not correspond with that of the card being used: set the correct value, remove the card, then switch the printer off and on again.
	<ul> <li>If you are using non-original ribbon, check that the type of ribbon set for the driver corresponds with the one actually being used</li> </ul>
	• Flip Over not in position: switch off the machine, remove by hand any card left in the flip over, then switch the printer on again
	• The weight of the input hopper does not rest on the card in the tray or is missing. Free the weight or introduce it
	• Check that the cleaning roller is not out of place. If it is, switch off the machine, put the roller back into position and switch the machine on again.
	Check that no ribbon fragments are present in the card path. If there are, switch the machine off and remove them, then switch the machine on again
	• Check that no card is present in the path. If there is, switch the machine off, remove the card, then switch the machine on again

## Printer has problem with ribbon

 If the ribbon has tears or locks with error 14
 USER

 • lower the "contrast" and "brightness" values in the "colour settings" menu on the "Media/preferences" tab

## **Chip Encoding problems**



 Run the "Matica Printer Manager" from the program group "Matica> DCP

# Ribbons

The following Matica ribbons can be used:

Ribbon Type	Code to order
Monochrome BLACK: 2000 prints	PR000034
YMCKO : 200 prints	PR000032
YMCKO : 200 prints standard	PR000234
YMCKO: 250 prints - NOT available for MOCA	PR000031
YMCKO: 250 prints standard - NOT available for MOCA	PR000233
Color 1/2 YMCKO: 400 prints	PR000166
Color 1/2 YMCKO: 400 prints standard	PR000235
YMCKOK: 200 prints	PR000033
Monochrome KO: 600 prints	PR000165
Monochrome RED: 1.000 prints	PR000098
Monochrome BLUE: 1.000 prints	PR000100
Monochrome GREEN: 1.000 prints	PR000099
Monochrome WHITE: 1.000 prints	PR000101
Monochrome SILVER: 500 prints	PR000162
Monochrome GOLD: 500 prints	PR000163

Each Matica ribbon has an RFID tag with ribbon identification data that allows the printer to configure all the counting and optimization parameters and procedures.

It is strongly suggested to exclusively use original Matica ribbons. The use of non-original accessories could damage the product and therefore void the factory warranty.

# **Cleaning Kits**

The following Cleaning Kits can be used:

Cleaning kits	Description	Code
REGULAR CLEANING KIT	Regular cleaning kit	PR000196
SERVICE CLEANING KIT	Service cleaning kit	PR000197
SWABS KIT x 50	Swabs kit x 50	PR000203
CLEANING PEN KIT x 12	Cleaning pen kit x 12	PR000204
EXT. CLEANING CARDS KIT x 100	Ext. Cleaning cards kit x 100	PR000205
T-CARD KIT x10	T-card kit x10	PR000207
REFURBISHING STRIP KIT x6	Refurbishing strip kit x6	PR000251

# **Technical Characteristics**

- Single-side or dual-side (\*) printing module
- Edge-to-edge printing
- Color dye sublimation and monochrome thermal transfer
- 300 dpi printhead (11,81 dots/mm)
- Up to 128MB of RAM
- Drop-in ribbon carrier
- The user-friendly Printer Driver and Printer Manager application facilitate access to and use of all printer functions.

## **Card Management**

- 100 card capacity in automatic input Hopper (0.76 mm 30 mil)
- 30 or 80 (\*) card capacity in output Hopper (0.76 mm 30 mil)
- Exception card manual feeder (\*)
- Rear bin (\*)
- Card types: PVC and composite PVC cards, PET cards, ABS cards (\*)
- Card thickness: 0.25 to 1.25 mm (10 to 50 mil)
- Card format: ISO CR80 ISO 7810 (53,98 mm x 85,60 mm)

## **Ribbons**

- Automatic detection and parameter setting
- Smart Ribbon level memory and management
- Smart Ribbon optimization in monochrome printing
- Available ribbon: please refer to Matica website: www.maticatech.com

# **Print Speed**

- Single-side Monochrome: up to 850 cph (\*)
- Single-side YMCKO: up to 260 cph (\*)
- Dual-side YMCKO-K: up to 160 cph (\*)

(\*) In accordance with the document to be printed and print settings selected

## Encoding

Magnetic encoder (read/write) 3-track HiCo/LoCo ISO 7811 and JIS II (On request)

- Smart card contact station ISO 7816-1, -2 (excluding Appendix B), -3, -4
- Contact/Contactless encoders compatible with std Cards MIFARE®, MIFARE DESFire® iCLASS® ICODE, ISO 14443 A&B, ISO 15693 and ISO 7816

## Software

- Printer driver
- Printer Manager
- Automatic Installer
- Compatible with Windows: W7 32/64 bit, W8.x 32/64 bit, Win10 32/64 bit

## **Security**

• Slot for Kensington® lock

## **Power Supply**

- Auto-switching external power supply unit with interchangeable power cords
- Input 100-240 Volts AC, 50-60 Hz, 1.5 A
- Output 24 Volts DC, 3.0 A

## **Dimensions and Weight**

- Dimensions (H x W x L): 253 x 200 x 395 mm
- Weight: 6.6 kg
- Packaged printer: 300 x 480 x 450 mm weight: 9.1 kg

# **Quality Standards**

- CE, UL, CQC
- Standby mode and reduced power consumption
- Sound pressure less than 48 dB (A) in operation mode (ISO 7779)
- Min/max operating temperature: 15° / 30 °C (59° / 86 °F)
- Humidity: 20% to 65% non-condensing
- Min/max storage temperature: -5° / +70 °C (23° / 158 °F)
- Storage humidity: 20% to 70% non-condensing

(\*) Only in some models/options



# DECLARATION OF CONFORMITY (according to ISO/IEC 17050)

Manufacturer:	Matica Technologies AG		
Address:	Via Salvo D'Acquisto, 8 Turate (CO) – Italy		
Year of CE marking:	2014		
Equipment category: Product type:	Information Technology Equipment Card Printer		
Models:	ESPRESSO, MOCA, S3100 XXXXX (X = A-Z, 0-9 or BLANK)		
The undersigned hereby declares, on behalf of Matica Technologies AG, that the above-referenced product, to which this declaration relates, complies with the following council directives and harmonized standards.			
Council Directives:	1999/5/EC	relating to radio and telecommunications terminal equipments	
	2006/95/EC	Low Voltage Directive	
	2004/108/EC	EMC Directive	
	2011/65/UE	ROHS Directive	
Harmonized Standards:	EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 Information technology equipment – Safety – Part 1:General requirements		
	EN 55022:2010 Information technology equipment- Radio disturbance characteris- tics- Limits and methods of measurement		
	Information tech	A1:2001 + A2:2003 nology equipment - Immunity characteristics - ls of measurement	
	EN $61000-3-2:2006 + A1:2009 + A2.2009$ Electromagnetic compatibility (EMC) - Part 3: Limits – Section 2 Limits for harmonic current emissions (equipment input current $\leq 1$ A per phase)		
	Limitation of volt public low-voltage	013 compatibility (EMC). Part 3: Limits. Section 3: age changes, voltage fluctuations and flicker in supply systems, for equipment with rated current and not subject to conditional connection	
Turate (CO), 30.06.2016		Matica Technologies AG Francesco Ciraolo Quality and Certification Manager	



Product Code: CM00000154en revision F