



Matan printers

This document describes the specifics of the Matan printer driver. The driver supports the following printer models:

- EFI Matan 3/5
- EFI Quantum 3/5
- EFI Quantum LXR 3/5
- EFI QuantumFlex 3/5

Each printer model supports four colors using CMYK and eight colors using light inks CMYKcmk (There is no light yellow. Instead, the yellow channel is duplicated.)

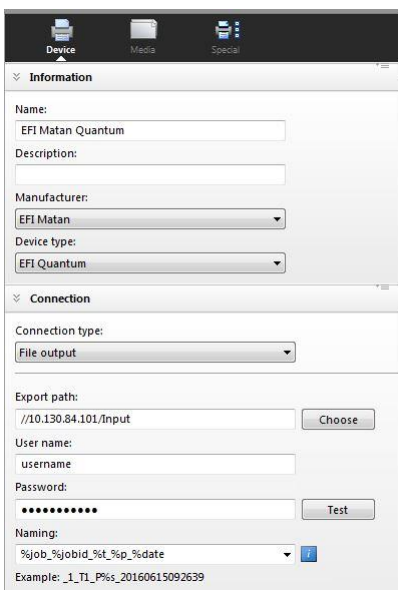
Installation

Install Fiery XF 6.4 or later. The Fiery XF drivers are available only for the Windows server.

Printer driver

Configuration

The Matan printer driver is a file output device. The output files are created in the configured Export folder. The Export folder may be a local folder on the machine or a network shared folder on a remote machine.



Connecting to a shared folder on the network

To connect to a remote shared folder using the UNC (Universal Naming Convention) you must enter your user credentials (user name and password). You also require write permissions to the remote folder. If necessary, you can add a domain to the user name, using the format <domain>\<username>. The password may be optional for user accounts that do not require it on the remote machine. You can verify the connection to the remote folder by clicking the Test button.

The Matan FE (Front End) machine may have a shared network folder that you can specify in Fiery XF for direct output.

Connecting to a local folder

Specifying a local folder can be done manually through an LFS (Local File System) path or by browsing to the location using the Choose button. You do not need to enter your user credentials to connect to a local folder.

Output

The Matan printer driver generates separated one-bit TIFF files. Each printed job creates its own subfolder based on the chosen naming format: <job-name>.**mjob**. The following output files are created:

File type	Name template
One-bit TIFF separations	< job-name >▲C.tif < job-name >▲M.tif < job-name >▲Y.tif < job-name >▲K.tif Additional light ink files for 8 separation modes: < job-name >▲LC.tif < job-name >▲LM.tif < job-name >▲LY.tif < job-name >▲LK.tif Additional special inks files (White/Clear): < job-name >▲W.tif < job-name >▲V.tif
Preview image	< job-name >▲PRV.bmp
Job ticket	< job-name >.xml

▲ = Space character

The job ticket xml contains job-specific information for the Matan printer, including the printer mode to be used and layout options.

Color modes, print modes and ink configuration

Color modes and print modes define how print data are generated:

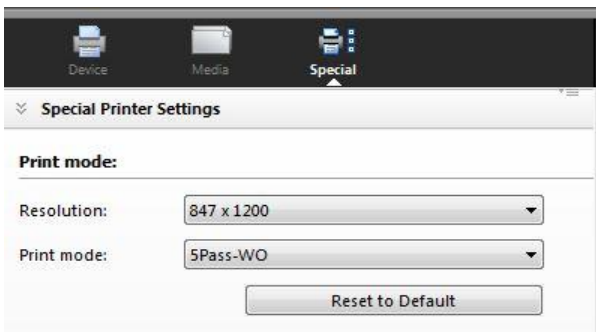
Color Mode	Print mode indicator	Printers	Printer's ink configuration	Output
CMYK		All	CMYK	CMYK 4 separations
		EFI Matan	CMYK	CMYKcmyk 8 separations CMYK channels are duplicated by a smart split algorithm. This mode is called Identity but it cannot be seen in the print mode name.
	-PDS	EFI Matan	CMYK	CMYKcmyk 8 separations In PDS mode the two head groups provide two different dot sizes which yield 3 effective dot sizes.
CMYKcmk	-8C or -PDS-8C	All	CMYKcmYk	CMYKcmyk 8 separations The Yellow channel is duplicated by the smart split algorithm (like in Identity mode). This mode was introduced with Fiery XF 6.5.
CMYKcmyk	-8C or -PDS-8C	All	CMYKcmYk	CMYKcmyk 8 separations The linearization generates 8 channels, the same as for VUTEk printers in CMYKcmyk mode. The second yellow is treated as if it were a light yellow ink. This mode is not recommended because of its uneven distribution of yellow. Please use CMYKcmk instead.

The choice of print modes depends on the color mode.

Special printer settings

Print modes

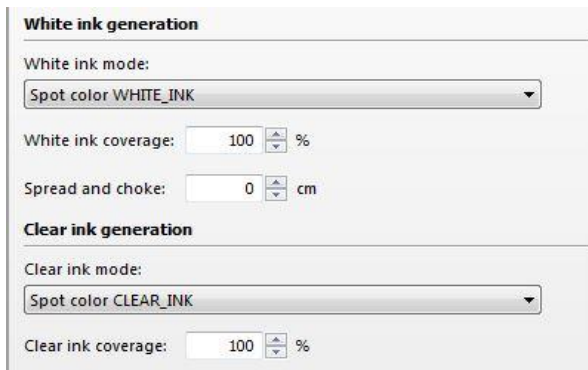
You can override the resolution and print mode saved to the selected media profile by using the print mode options on the Special Printer Settings pane:



Only resolutions and print modes which are compatible with the color mode of the media profile are available for selection. For example, if the media profile was created for CMYKcmyk, only the resolutions and print modes applicable for this color mode are displayed.

White/Clear Inks

All Matan printer models support White ink. Furthermore, EFI Quantum 3/5 and EFI QuantumFlex 3/5 also support Clear (Varnish) ink. However, be aware that the White/Clear inks are optional, depending on the configuration of the physical device.



The screenshot shows a software interface with two sections: "White ink generation" and "Clear ink generation".

White ink generation

- White ink mode: Spot color WHITE_INK (dropdown menu)
- White ink coverage: 100 % (spin box)
- Spread and choke: 0 cm (spin box)

Clear ink generation

- Clear ink mode: Spot color CLEAR_INK (dropdown menu)
- Clear ink coverage: 100 % (spin box)

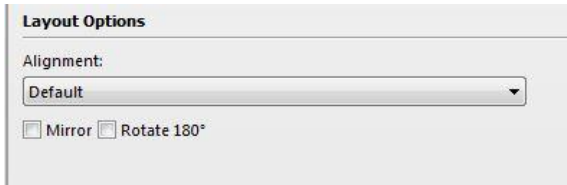
You can generate White/Clear ink either by mapping a spot color (if one exists in the input job) or by using one of the available options: Bounding Box (Flood), Fixed ink amount on printed areas, or Fixed ink amount on printed areas (inverted).

Important: Not all print modes create White/Clear ink TIFF separations, even if the White/Clear ink option is set up in Fiery XF to generate it either from a spot color or another option. This is because only the White/Clear print modes accept these separations on the Matan FE side.

For example: If you use the 5Pass print mode, no white separation will be created, because it is a non-white print mode. However, if you switch to the 5Pass-WO print mode, a white separated TIFF will be produced in the job folder.

Layout options

The following layout options are available in Fiery XF:



Setting	Description
Alignment	Aligns the job horizontally on the media
Mirror	Mirrors the job horizontally
Rotate 180°	Rotates the job by 180 degrees

These options are set inside the job ticket xml of the job, and are reflected on the Matan FE user interface. If you change the setting on the Matan FE user interface, it overrides the equivalent setting from the job ticket xml.

Note: The layout options provided on the Special Printer Settings pane are different from the generic ones available on the Layout pane of the Fiery XF client, and their behavior is different. While the generic layout options are performed by the RIP, the settings on the Special Printer Settings pane are applied by the Matan printer at the time of printing.