Mimaki JFX200-2513 and JFX500-2131

This document bridges the gap between the Fiery XF documentation and the Mimaki JFX200-2513 and JFX500-2131 documentation. Refer to the Installation section before you connect the printer to a computer.

The Operation section has information on profile generation and everyday use. Also refer to the Operation Manual.

General settings

For a JFX printer, select the Fiery XF driver that matches the ink configuration in the printer:

XF Model	Description
Mimaki JFX200-2513 CMYK Mimaki JFX500-2131 CMYK	CMYK
Mimaki JFX200-2513 White	CMYK + White CMYKcm + White
Mimaki JFX500-2131 White	CMYK + White
Mimaki JFX200-2513 White+Clear Mimaki JFX500-2131 White+Clear	CMYK + White + Varnish
Mimaki JFX200-2513 White+Clear+Primer	CMYK + White + Varnish + Primer
Mimaki JFX500-2131 White+Primer	CMYK + White + Primer
Mimaki JFX500-2131 Clear	CMYK + Varnish
Mimaki JFX500-2131 Primer	CMYK + Primer
Mimaki JFX500-2131 Clear+Primer	CMYK + Varnish + Primer

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Installation

From the computer viewpoint, the Mimaki JFX is a special USB device. The driver is downloadable from http://mimaki.com/product/inkjet/i-flat/jfx200-2513/download-driver.html.

1 Follow the instructions in the Mimaki USB Driver Install Guide before you connect the printer. Mimaki USB driver version 4.1.3 or later is recommended.

2 Install Fiery XF and the latest Fiery XF service pack that supports the Mimaki printer. The minimum requirement is Fiery XF 6.4.

The Fiery XF drivers for Mimaki printers are available only for Windows. Macintosh OS X is not supported.

3 To configure the Fiery XF output device:

- On the Device tab, go to the Information pane and select the appropriate Device type, e.g. “Mimaki JFX200-2513 CMYK”.
- On the Device tab, go to the Connection pane. Under “Port”, select the appropriate Mimaki JFX printer.

Operation

Settings

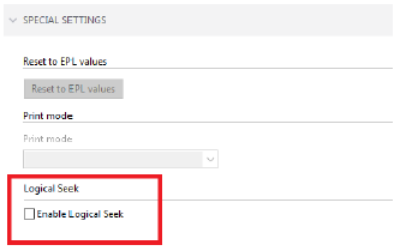
You can access the ink layers settings in Color Tools via the “Media type” setting.

You can set the number of passes in Color Tools via the “Print mode” setting.

You can select a resolution as appropriate.

Note that the ink amount may be higher in higher resolutions.

Logical Seek

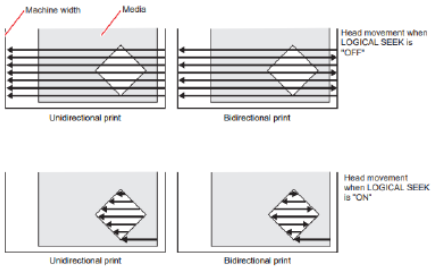


Logical Seek setting controls whether the print head assembly of the printer moves across the full width of the printer or only across the printable data.

If Enable Logical Seek is OFF, the print head assembly moves across the full width of the printer.

If Enable Logical Seek is ON, the print head assembly moves only across the printable image data.

Note: On the Printer Panel, the LOGICAL SEEK setting should be set to HOST. Otherwise, the printer setting will override and ignore the RIP setting.



Note: If you find that wet ink is affecting the quality (for e.g. in case of higher resolution and high total ink limit), setting Logical Seek to OFF is recommended. This may allow ink to dry between each scan.

Creating profiles

Always check the control panel settings – they may override the RIP settings or otherwise affect print quality.

Profiles created for the CMYKcm color mode should not be used with CMYK printers, even though they may seem to be compatible. You may not see Cyan and Magenta colors in such scenarios.

White ink printing

This section applies only to models that support White ink.

Print speed and quality issues

JFX printers have separate heads for printing color and for printing White/Clear/Primer.

Linearization and media profiles

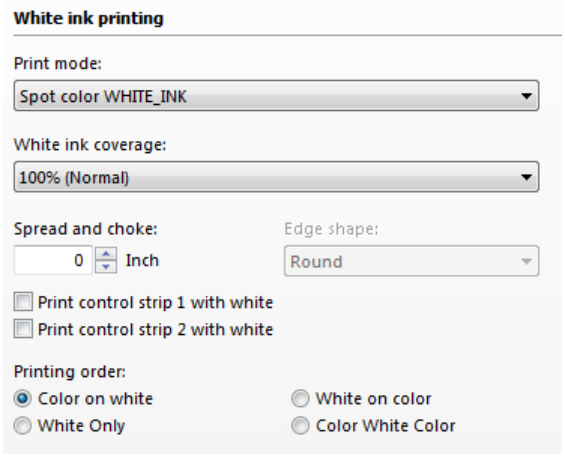
There is no specific linearization available for White ink. White ink simply uses its own linearization curve. As far as profiles are concerned, the printer is still a CMYK device. Five-channel profiles that include a mix of CMYK and White are not supported.

Printer-specific separations

Separated file formats, e.g. PS, PDF, EPS support spot colors. For Fiery XF, the spot color name WHITE_INK has a special meaning. It is a pre-defined printer-specific internal spot color. During job processing, it goes directly to the printer, by-passing color management. It is possible to specify it directly in the document. Alternatively, you can use Color Editor to set up an alias, by mapping one of the job's color separation to WHITE_INK. You can then select the *.spt file in the color settings of the job.

Print settings for White ink

You can find the White ink settings on the Special Printer Settings pane for the output device (System Manager) or for the job (Job Explorer):



Print mode

These following options are available to print White:

Name	Meaning
Spot color WHITE_INK	The spot color of this name or alias from a separated document prints White. This is the default mode.
Inked image	Every pixel which does not have CMYK = 0,0,0,0 on the printer side adds White.
Bounding box	Every pixel in the image rectangle adds White. This is the recommended mode during linearization and profile creation.
White_INVERSE	Same as “Spot color WHITE_INK” but channel inversed.
Ink chroma map	Reduces the amount of White for darker colors.
Off	White off, even when it comes from the separated document.

The options “Inked image” and “Bounding box” work regardless of whether the file is separated or not.

Printing order

Since White is opaque, the printing order is important:

- “Color on White” uses White as the foundation color, then prints other colors on top. This setting is for printing on dark or metallic materials.
- “White on Color” prints White on top of other colors. This setting is for printing transparencies from the back.
- “White Only” prints White, but no other channels.
- “Color White Color” prints three layers with White in the middle. This setting is generally used for backlit printing.

White ink coverage

"White ink coverage" is a setting that configures the amount of White ink relative to black. The available settings are 10%, 13%, 16%, 20%, 25%, 32%, 40%, 50%, 63%, 80%, 100%.

Clear ink printing

This section applies only to models that support Clear ink.

Print speed and quality issues

JFX printers have separate heads for printing color and for printing White/Clear/Primer.

Linearization and media profiles

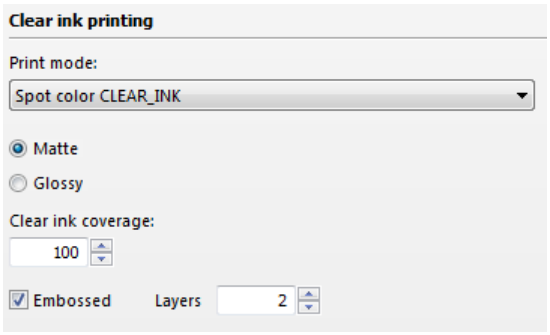
There is no specific linearization available for Clear ink. Clear ink simply uses its own linearization curve. As far as profiles are concerned, the printer is still a CMYK device. Five-channel profiles that include a mix of CMYK and Clear are not supported.

Printer-specific separations

Separated file formats, e.g. PS, PDF, EPS support spot colors. For Fiery XF, the spot color name CLEAR_INK has a special meaning. It is a pre-defined printer-specific internal spot color. During job calculation, it goes directly to the printer, by-passing color management. It is possible to specify it directly in the document. Alternatively you can use Color Editor to set up an alias, by mapping one of the job's separations to CLEAR_INK. You can then select the *.bct file in the color settings of the job.

Print settings for Clear ink

You can find the Clear ink settings on the Special Printer Settings pane for the output device (System Manager) or for the job (Job Explorer):



Print mode

These following options are available to print Clear ink:

Name	Meaning
Spot color CLEAR_INK	The spot color of this name or alias from a separated document prints Clear. This is the default mode.

Name	Meaning
Inked image	Every pixel which does not have CMYK = 0,0,0,0 on the printer side adds Clear.
Inked image inverse	Same as “Inked image” but channel inversed.
Bounding box	Every pixel in the image rectangle adds Clear. This is the recommended mode during linearization and profile creation.
Off	Clear off, even when it comes from the separated document.

The settings “Inked image”, “Inked image inverse” and “Bounding box” work regardless of whether the file is separated or not.

Clear ink finishing

The following types of Clear ink finishing are supported:

- “Matte” prints Clear ink with a matte finish.
- “Glossy” prints Clear ink with a glossy finish.

Clear ink coverage

Clear ink coverage is an option that configures the amount of Clear ink relative to black. The available settings range from 1% to 100%.

Embossing

Embossing effect can be created by enabling embossing. Embossing Layers range from 2 to 8. More the embossing layers, more will be the embossing thickness. Note that embossing will slow down the printing of the job, as each embossing layer will be printed one after the other in separate passes.

Primer ink printing

This section applies only to models that support Primer ink.

Print speed and quality issues

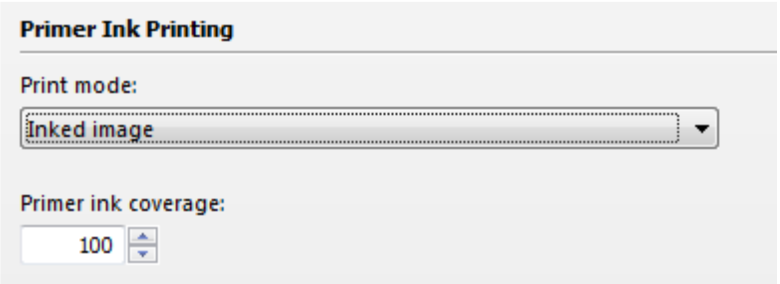
JFX models have separate heads for printing color and for printing White/Clear/Primer.

Linearization and media profiles

There is no specific linearization available for Primer. Primer simply uses its own linearization curve. As far as profiles are concerned, the printer is still a CMYK device. Five-channel profiles that include a mix of CMYK and Primer are not supported.

Print settings for Primer ink

You can find the Primer ink settings on the Special Printer Settings pane for the output device (System Manager) or for the job (Job Explorer):



Print mode

There following options are available to apply Primer:

Name	Meaning
Inked image	Every pixel which does not have CMYK = 0,0,0,0 on the printer side adds Primer.
Bounding box	Every pixel in the image rectangle adds Primer
Off	Primer will not be applied.

Primer coverage

Primer coverage is an option that configures the amount of Primer to be applied. The available settings range from 1% to 100%.

Printing order

If Primer is supported and the job contains Primer, it will always be printed first as the first layer.

The printing order of White and Clear ink depends on the White ink printing order and the print mode selected on the Special Printer Settings pane.

Printing order	Job has White ink	Job has Clear ink	Effective print order
Color on White	No	No	CMYK only
	Yes	No	Color on White
	No	Yes	Varnish on Color
	Yes	Yes	Varnish on Color on White
White on Color	No	No	CMYK only
	Yes	No	White on Color
	No	Yes	Varnish on Color

Printing order	Job has White ink	Job has Clear ink	Effective print order
	Yes	Yes	Error
Color White Color	No	No	CMYK only
	Yes	No	Color – White - Color
	No	Yes	Varnish on Color
	Yes	Yes	Color – White – Color - Varnish

The job has White if you set the print mode in the White group to any option except Off.

The job has Clear if you set the print mode in the Clear group to any option except Off.

If Primer is supported and the job has Primer, it will always be printed as the first layer. The job has Primer if you set the print mode in the Primer group to any option except Off.

Option support

Media length correction

In Fiery XF you enter a target length and an actual length. The MEDIA COMP value is then calculated as follows: (target length / actual length -1) * 10000

This formula gives an exact MEIDA COMP value, although the corrected media length may be slightly inaccurate. For example, if you enter a target length of 100.60 cm and an actual length of 100.00 cm, the MEDIA COMP value will be +60.

Known issues

The Fiery XF driver has not been tested for Mimaki USB driver versions earlier than v4.1.3.