

EFI Pro 30h

This document provides information on how to drive the EFI Pro 30h printer from Fiery XF. It covers the following topics:

- Workflow
- Printers, including setting up in Fiery XF
- Fiery XF settings
- Creating calibration files and media profiles
- Printing with white ink and clear ink
- Special features, including skipping blank space during printing, and media and ink consumption

Workflow

The following components are required to print to an EFI wide format printer from Fiery XF:

- Fiery XF Server (v. 7.3.2 and higher) For more information, contact Fiery XF technical support.
- Printer hardware

Supported printers

The following EFI Wide Format printers are supported:

Printer model	Description
EFI Pro 30h White	6 head CMYKWW hybrid (roll 126 inch x 50m, rigid 126inch x 252 inch)
EFI Pro 30h White Varnish	6 head CMYKWCl hybrid (roll 126 inch x 50m, rigid 126inch x 252 inch)

License

You require a license for the Printer Option EFI Wide Format.

Setting up the printer in Fiery XF

Set up the printer in Server Manager to

- either use the **File output** option to generate a *.bco file which you can load into the EFI Pro 30h Printer software. This is the default.
- or use the **Print via IP network** option to print to the IP address of the PC that is connected to the printer.

File Output

The Fiery XF server and Command WorkStation are normally installed on the printer PC. The preferred workflow when printing to the EFI 30h printer is the so-called RIP-then-print workflow where the Fiery XF server is configured for file output.

NEW PRINTER				Х
Connection type				
File output		~		
Export path				
E:\Export\Pro30h			Choose	
Username				
Password				
Naming				
%order_%job_%jobid_%t_%p_%date		~	i	
Example: 001_FileName_1_T1_P1_20220405171026				
	< <u>B</u> ack	<u>F</u> inisł	n <u>C</u> ancel	

When set up this way, the Fiery XF server RIPs the job and creates a *.bco file. Use the printer software to select the *.bco file and print the job. For more information on how to use the printer software, see the Pro 30h Operator's Guide.

File Output over network

If you run Fiery XF on a separate computer, e.g. EFI proServer, the following is required:

- On the printer computer, setup a share, e.g. \\computername\EFIPro30h. One user must have write access to the share and to the local folder that is shared. Note down the user's credentials (username, password).
- In Fiery XF specify
 - The share \\computername \EFIPro30h as export path
 - The credentials of the user mentioned above

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Print via IP network

You can also set up the Fiery XF server to RIP the files directly to a certain IP address. When the Fiery XF server and printer software is installed on the same PC, use 127.0.0.1 as the IP address for printing.

If you import a job into Command WorkStation and select the job to be printed, the job will RIP and print on the fly. In this workflow the printer software is not used. There is a risk of the printer stalling if you RIP and print jobs simultaneously.

If the Fiery XF server is running on a different PC, observe the following:

- Set the IP address to the IP address of the printer PC.
- Use the EFI Print Control utility for printing.
- Make sure that you have a gigabit Ethernet connection as the average data transfer rate can reach 15MB/s.
- Firewalls, or any other Internet security software, must allow data transfer via the TCP port 9100 (outgoing on the Fiery XF PC, incoming on the printer PC). In Windows 7 and later, the network must be classified as a home or office network on both PCs. Do not select a public network because the Microsoft default security setting blocks communication with port 9100.

Fiery XF settings

This section is intended for printer operators who are familiar with Fiery XF.

Output folder

When the connection type is set to **Print via IP network**, this folder is used for output files.

When the connection type is set to **File output**, this folder is the base for the export folder.

The default folder depends on the computer's disk configuration. You can change the folder by stopping the Fiery XF server and then clicking Configuration -> Server File Paths in Fiery Server Control, or in Server Manager at Server > Server File Paths.

Profile Folders	
Reference Profile Folder	
C: \ProgramData \EFI \EFI XF\Server \Profiles \Reference	Choose
Media Profiles Folder	
C:\ProgramData\EFI\EFI Media Profiles	Choose
System Folders	
Job Folder	
D:\JobFolder	Choose
Output Folder	
E:\Output	Choose
Temporary Folder	
D:\Temp	Choose
JDF Folder	
E:\Export	Choose
L	

In both cases you can access the Output folder directly from the printer software.

Print mode

Fiery XF comes with pre-configured print modes. Each print mode contains a unique combination of the following settings:

- Passes
- Double strike

Recommended print modes

EFI recommends the following print modes for best results:

Print mode	Resolution	Smoothing	SqFt/Hr	SqM/Hr	ВРН	Dot size
Express 1 Pass	300x600	None	2473	230	48	Unlimited Variable
Distant 3 Pass	600x600	None	1079	100	23	Variable
Production 4 Pass	900x600	None	814	76	19	Variable
POP 6 Pass	600x600	Medium	603	56	13	Variable
High Quality 8 Pass	600x600	Heavy	441	41	10	Variable
Ultra Quality 12 Pass	600x1200	Medium	308	29	7	Variable

Other print modes have shorter names, e.g. "9 Pass". For specific applications they may make sense.

You can change the print mode in Server Manager on the Printer & Workflow Settings pane. The print mode is also saved as part of the media profile, so be aware that if you change the print mode on the Printer & Workflow Settings pane, it will affect the print quality of the media profile. For this reason, it is recommended that you select a media profile with the appropriate print mode settings or create a new media profile for your specific requirements.

Print direction

You can change the print direction setting on the Speed pane for the workflow.

Creating calibration files and media profiles

This section provides information on specific settings that are necessary when creating a calibration file in Color Tools. The calibration file defines the print conditions for the media profile. No special license is required to create a calibration file. The Color Profiler option license is required to create custom media profiles.

Color Tools						- 0	×
File ?							
Calibrate Printer	Printer Settings						
	Printer:	EFI Pro 30h White (EFI P	ro 30h White)	~			
🖊 Settings	Printer type:	n/a		\sim			
Ink Limit per Channel	Ink type:	PROGRAPHICS UV XA XF	:	~			
Calibration	Calibration						
	Measuring device:	EFI ES-2000		~	Settings	Patch settings	
Total Ink Limit		Calibration will be do	one automatically				
Quality Control		Profiling will be done	automatically				
	Calibration intent:	O Proof	Photo or	production			
Summary	Calibration Name						
		Enter an EPL name			Generate name from	settings	
	Media Settings						
	Media name:	WideFormat Custom M	edia Name	~			
	Media feed adjustment:	Target (mm):	500 🔹	Actual (mm)	; 5 00 🔹		
	Output Settings						
	Resolution:	302 x 600	~	Color mode:	СМҮК	~	
	Print mode:	Express 1 Pass	~	Dot size:	Variable	~	
	Print direction:	Bidirectional	~	Screening:		\sim	
	Halftoning:	Error diffusion (SE1)	~				
0	Advanced				Cancel	Next	

Select "Photo or production" as the calibration intent. Selecting "Proof" will limit the gamut of the printer.

Nom. res.	Exact res.	Ink %	Var.	Robust	Unlimited
300x600	302.38x600	39	7-21	14-21	7-21
600x600	604.76x600	76	7-21	14-21	7-21
900x600	907.14x600	113	7-21	14-21	7-21
600x1200	604.76x1200	151	7-14	14	7-21
900x1200	907.14x1200	227	7-14	14	7-21
1200x1200	1209.52x1200	302	7	14	7-21

The following resolutions and dot sizes (pl) are available:

When selecting a resolution and dot size, observe the following:

- Generally speaking, a fixed amount of ink per square inch is applied to all similar colors. In Color Tools, a resolution of 600 x 600 dpi requires by default 28 pl of ink to create the 100% ink limit. A percentage of less than 100 reduces the overall color gamut. For percentages above 100, Fiery XF automatically reduces the amount of color ink accordingly.
- The maximum dot size is 21 pl. The color gamut decreases at 300 x 600 dpi as the ink droplets do not completely fill the available space.
- You can adjust the amount of white ink separately. The 100% ink limit for 4-level color modes is 21 pl. This does not depend on the resolution.
- A variable dot size is the best choice for most applications.
- Fixed dot sizes (Normal, Fine, Superfine) are more robust and are recommended if mist or banding is an issue. However, be aware that fixed dot sizes can result in a grainier print.
- Normal, Fine and Superfine dot sizes do not use Color Tool's pre-calibration. The dot sizes are adapted instead.
- Robust Variable dot size starts with a bigger dot size 14 pl instead of 7 pl. Its performance lies in between that of variable and fixed dot sizes.
- Unlimited Variable applies full ink per pixel. With higher resolutions the ink amount increases up to 302%. Use this mode only in applications where you need that extra ink.
- For variable dot sizes, the table shows the effective dot range for color inks. Due to the stochastic nature of the halftoning, a small percentage of larger dots will be used at 100%, e.g. 21 pl at 600 x 1200 dpi.

Printing with white ink

There is no specific calibration available. However, you can control the white channel by using a visual correction curve.

To print white ink, you must make the appropriate settings on the Printer & Workflow Settings for the printer.

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•	PRINTERS	+ 1	i ->	
÷	EFI Pro 30h White			✓ SPECIAL SETTINGS
0	Media		+ 🖮	Reset to EPI values
25	✓ Generic			Port to ED volue
	Workflow		+ 💼	Print mode
	✓ Generic			Resolution
				605 x 600 ~
				Print mode
				2 pass max 🗸
				White ink printing
				Print mode
				Spot color WHITE_INK V
				White ink coverage:
				100%
				Spread and choke
				0.00 🖨 mm
				Edge shape
				Round
				Print control bar 1 with white Print control bar 2 with white
				Printing order
				Color on White OWhite on color
				O Mix white with color O Color White Color
				O Color White White Color O Color White Block White Color
				Color White Color
				CMYK top 100 🐳 % CMYK bottom 100 🐳 %
				Mirror back image
				Color White Blockout White Color
				Blockout values
				100 🐨 % Black
				0 💮 % Cyan
				0 😴 % Magenta
				0 🗢 % Yellow
				RIP and print on the fly
				Print starts at: 25 🔹 %
				Reset to Default
?				Cancel Save

The settings are described below.

Print mode

Select one of the following print modes:

Print mode	White channel
Spot color WHITE_INK	Prints: The spot color that is defined as WHITE_INK in the document. Any color separation from the job that is mapped to WHITE_INK and saved as a spot color table (*.cxf). The spot color table must be selected on the Spot Colors pane. The spot color WHITE_INK is output without color management in Fiery XF.
Fixed ink amount on printed areas*	A white ink dot is created for all pixel information that is not 0,0,0,0,0 (including the spot color WHITE_INK). You can exclude WHITE_INK from the print job on the Spot Colors pane.
Bounding box*	All image pixels are printed in white ink. This is the recommended setting for creating a calibration file.
White_INVERSE	A white ink dot is created for all pixel information that is 0,0,0,0. You can exclude WHITE_INK from the print job on the Spot Colors pane.
Ink chroma map	Additional white ink is applied to light areas. White ink is reduced in darker areas to save white ink.
Off	White is not printed, even if there is an appropriate color separation.

* "Fixed ink amount on printed areas" and "Bounding box" are applied to separated and composite jobs.

For more information on defining spot colors in Fiery XF, see the Fiery XF online help.

White ink coverage

You can control white ink coverage:

- In Fiery XF
- In Adobe Illustrator
- In Adobe Photoshop

To adjust the white ink coverage in Fiery XF

- **1** Do one of the following:
 - On the Printer & Workflow Settings pane for the printer, select the required percentage of white ink coverage. The selected white ink coverage percentage will be applied using the selected print mode.
 - Create a visual correction file.
 - **1** Open Color Tools and click Visual correction.

Color Tools	
Create Calibration	
Create Media Profile	Color Tools
Create Profile from Measurement	
Optimize Profile	
Create Device Link Profile	
Create Reference Profile	
Create Monitor Profile	
Connect Profiles	
Edit Profile	
Inspect Profile	
Re-Calibration by Measurement	
Visual correction	
Exit	

2 Select "Visual correction".

Color Tools					
e ? Visual correction	Correction type Re-calibration	Plate comp	ensation		
	Gradation				
	CMYK	In%	Out% ^		
	CMY	0 0/	D		
	Cyan	100 10	0.0		
	Magenta				
	Yellow				/
	Black		=		
	Channel 5				
	Channel 6				
	Channel 7			/	
	Spot color			x0 %0 y0 %0	Reset
	Global changes				
	Gamma -100	0	+100		
	C Linear 0		+100		
	Reset				
					OK Cancel

- **3** Select "Spot color" to create a curve that affects white ink, or select individual color channels, as needed.
- **4** Enter a value for In% and Out%.
- 5 Enter the values in the empty row after 100%. Click an empty cell when finished to confirm the new values. Do not make any other changes in this dialog box as it may cause unexpected results.
- 6 Click OK.

By default, the visual correction file is created in the Working folder, but it can be saved anywhere. You can also edit an existing curve by clicking Load on the File menu.

7 In Server Manager, click the desired printer and then select the desired media.

8 On the Media tab, open the Media Configuration pane. Under "Visual correction", select the visual correction file.

SERV	ER MANAGER [Holgerdr-PC]- [10.130.86.25]					×
•	PRINTERS	+ 🖻	÷			
-	EFI Pro 30f White			✓ MEDIA CONFIGURATION		^
0	Media	+	İ	Media ID		
쓰	✓ Generic			Generic	Load from MIS Media Mapping Manage Media	
	Workflow	+	Ē			-
	✓ Generic			Ink type	Resulting Calibration(s)	
	EFI Pro 30f White Varnish			INK EFI PROGRAPHICS UV-3M	Pro16h_302x600_1p-max_Express.epl	
	Media	+	÷	Media name	ICC Pro16b 302x600 In-max Expression	
	√ Generic	•		PSA	Media type	=
	Workflow	+	击	302 × 600		
	√ Generic	•		Dot size	Device link profile	
	Generic			Unlimited Variable 👻	 Drint direction	
				Color mode:	Bidirectional Switch to unidirectional	
				СМҮК 👻	Visual correction	1
				Print mode	WhiteRelinearization3.vcc	
				1 pass max 👻		
				Halftone mode:		
				New Calibration and Profile Re-Calib	bration	_
				✓ MEDIA SETTINGS		
				Media size		_
				Source		
\bigcirc				Dinid media 🗸 🗸		
?				Source Digid madia	Cancel	Sav

9 Click Save.

10 Repeat for other media as desired.

Note: You can use the same curve with any printer.

To adjust the white ink coverage in Adobe Illustrator

- **1** Open the file in Illustrator.
- 2 Select all areas of spot white.
- **3** Adjust the opacity as needed.



To adjust the white ink coverage in Adobe Photoshop

- **1** Open the file in Photoshop.
- 2 Select all areas of spot white.
- **3** Adjust the opacity as needed.



Spread and choke

There is a stark contrast between white and color inks. Even the smallest of registration errors can be visible. A small negative value (choke) reduces the size of white just enough to remove visible white edges. Often a correction of -0.04 mm (1 pixel at 600 dpi) can help. A positive value adds a uniform white border around images.

Print order

Due to the opaque properties of white ink, the print order is important. The settings are applied as follows:

Print order	Job has white ink	Effective print order	Description
Color on white	No	CYMK only	Prints white as the foundation layer, and then prints
	Yes	Color on white	color on top. Use this setting for printing on dark or metallic materials.
White on color	No	CMYK only	Prints white on top of color.
	Yes	White on color	Use this setting for printing backlit transparencies.
Mix white with color			Use this setting to print white only, but at the fastest possible speed. This setting is applied irrespective of the selected print mode.
Color White			Prints white ink as the middle of three layers.
Color			In daylight conditions, the top and white layers operate in reflective mode. In the dark, the backlight shines through all three layers. You can adjust the percentage of ink for the top and bottom layers separately. By default, 100% of ink is applied to the top and bottom layers. It is not possible to have a different image on the top and bottom. It is possible to mirror the back layer for window-cling
			applications. This setting is applied irrespective of the selected print mode.
Color White White Color			Color White Color – plus double-strike white for higher opacity. This setting is applied irrespective of the selected print mode.
Color White			Color White White Color – plus
Block White Color			additional Blockout layer in the middle for maximum opacity.
			The image of the Blockout layer is the same as the image in the white layers.
			The CMYK ink amount for the Blockout layer image can be set with the four controls in the group
			Color White Blockout White Color.
			This setting is applied irrespective of the selected print mode.

EFI_Button_White_151_T1_P1_20210908095710_1 S9_Black.tif

Color White Color

The spin controls adjust the top and bottom ink amounts for print orders with two color layers:

- Color White Color
- Color White White Color
- Color White Block White Color

Mirror back image

For print orders with two color layers, the back image can be mirrored. White and Blockout contents are the superset of original and mirrored separation image. In this example of separations, the white layer is WHITE_INK



EFI_Button_White_151_T1_P1_20210908095710_1_ S5_White.tif

EFI_Button_White_151_T1_P1_20210908095710_1_ S6_Cyan.tif

S7_M

EFI_Button_White_151_T1_P1_20210908095710_1_ S7_Magenta.tif EFI_Button_White_151_T1_P1_20210908095710_1 S8_Yellow.tif

in the document.

Color White Blockout White Color

The spin controls set the color values of the Blockout layer.

The White Varnish driver (Printing with Clear ink)

Create in Server Manager a new printer for the White Varnish version of the Pro 30h printer:

Manufacturer		
EFI Wide Format		~
Printer Type		
EFI H1625 LED CMYK		~
EFI H1625 LED CMYK EFI H1625 LED White EFI H1625-RS EFI H1625-SD White		
EFI Pro 16h White FFI Pro 24f White		
EFI Pro 30f White		
EFI Pro 30f White Varnish		
EFI Pro 30h White		
EFI Pro 30h White Varnish		
EFI N3223 Rastek H650 White		
Rastek H652 White		
Rastek H700		
Rastek H700 White		
Rastek T1000 White		
Rastek T660 White		

Only the White Varnish driver supports Clear ink.

Always match the driver to the printer. The printer does not reject BCO files from the other driver and the behavior in such a case will not match the expectation:

	White driver	White Varnish driver
White printer	Correct	Clear printed as half intensity White
White Varnish printer	White printed as a mix of half intensity White and Clear	Correct

PRINTERS If Plo 3db White If Plo 3db White Vanish Media If Plo 3db White Vanish Workflow If plo 3db White Vanish If plo 3db White Vanish If plo 3db White Vanish If plo 3db Vanish	SER	VER MANAGER [kai-nuc]- [10.130.8	6.13]			- 0	×
If IP Po 30h White If IP Po 30h White Variab Spread and choke Image: I	0	PRINTERS	+	Ē	÷		
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Vorkflow ● Imple Workflow ● Imple Color Outrol bar 2 with white ● Print control bar 2 with white Print control bar 2 with white ● Print control bar 2 with white Print control bar 2 with white ● Print control bar 2 with white Print control bar 2 with white ● Print control bar 2 with white Print control bar 2 with white ● Print control bar 2 with white Print control bar 2 with white ● Print control bar 2 with white Print control bar 2 with white ● Print control bar 2 with white Print control bar 2 with white ● Print control bar 2 with white Print control bar 2 with white ● Print control bar 2 with white Print control bar 2 with white ● Color Max white white white ● Color White White Color Double-strike white ● Enable Color White Blockout White Color Blockout values Dol % S van ● % Valow Ol % % Valow ● % Valow Cler ink printing ● Print control CLEAR_INK Print control CLEAR_INK ● Dol % Into on the fly ● Pand print on the fly ●		Media		+	<u>أ</u>		
Workflow Print control bar 1 with white Print control bar 2 with white Print control bar 2 with white Print control bar 2 with white Print control bar 2 with white Print control bar 2 with white Print control bar 2 with white Print control bar 2 with white Print control bar 2 with white Print control bar 2 with white Print control bar 2 with white Print control bar 2 with white Print control bar 2 with white Print control bar 2 with white Print control bar 2 with white Print control bar 2 with white Print control bar 2 with white white <		🗸 Generic				Round	
 ✓ Genetic Print control bar 2 with white Printing order: @ Color on White @ Mite on color @ Color White Block White Color @ Color White White Color @ Color White Block White Color Double-strike white □ nable Color White Color 0 @ % CMYK bottom 0 @ % Mitror back image Color White Block ut White Color Blockout values 0 @ % Sopn 0 @ % Sopn 0 @ % Velow Clear ink printing Print coverage: 0 @ % Velow Clear ink coverage: 0 @ % Velow RP and print on the fly Subt of the fly 		Workflow		+	<u>أ</u>	Print control bar 1 with white	
Printing order: © Color on White ○ Color White White Color ○ Color White White Color ○ Color White White Color Double-strike white □ Enable Color White Block White Color CMYK top 100 % CMYK bottom 100 % ○ Mirror back image Color White Blockout White Color Blockout values ○ Dol % K Syan ○ D % % Sy		✓ Generic				Print control bar 2 with white	
Output						Printing order:	
Color White White Color Double-strike white Enable Color White Color Mirror back image Color White Blockout White Color Blockout values 100 * % Black 0 * % Cyan 0 * % Vellow Clear ink printing Print mode: Spot color CLEAR_INK 100 * RP and print on the fly						O Mix white with color O Color White Color	
Double-strike white Enable Color White Color CMYK top 100 % CMYK bottom Mirror back image Color White Blockout White Color Blockout values 100 % K Black 0 % K Cyan 0 % K Vagenta 0 % K Vellow Clear ink printing Print mode: Spot color CLEAR_INK 100 % RP and print on the fly						O Color White White Color	
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Clear ink printing Print mode: Spot color CLEAR_INK Clear ink coverage: 100 * RIP and print on the fly						0 🜩 % Magenta	
Clear ink printing Print mode: Spot color CLEAR_INK Clear ink coverage: 100 Cl						0 🔹 % Yellow	
Print mode: Spot color CLEAR_INK ~ Clear ink coverage: 100 P RIP and print on the fly						Clear ink printing	
Spot color CLEAR,INK						Print mode:	
Clear ink coverage:						Spot color CLEAR_INK ~	
100 RIP and print on the fly						Clear ink coverage:	
RIP and print on the fly						100 🔹	
						RIP and print on the fly	
Print starts at: 23 v /º						Print starts at: 25 🐥 %	
Reset to Default						Reset to Default	
(2) Cancel Save	?					Cancel Save	-

Double-strike white

The White Varnish configuration of the printer does not have additional heads for Varnish. With the same settings the intensity of White is roughly 50% compared to the White configuration.

Double-strike white gives that extra amount of white at the expense of print speed if enabled.

Clear ink printing

To print Clear ink, you must make the appropriate settings on the Printer & Workflow Settings pane for the printer.

Print mode

The options are like the options for White.

Clear ink coverage

You can control clear ink coverage in Fiery XF using the related printer settings in Server Manager.

Special features

Skip blank space during printing

The Skip Blank Space feature enables the Pro 30h printer to advance media quickly through blank spaces in an image or in a group of nested or step-and-repeat images to provide faster printing. Because the printer has white ink, we prefer the term Blank Space instead of White Space in order to avoid confusion.

In order for the Skip Blank Space feature to work, the printed files must have bands of raster lines with the following properties:

- Each raster line is entirely blank. No single pixel of ink in the output raster data. White areas of the source images meet this condition. If there is some subtle texture, it is not white.
- Paper white (e.g. render intent absolute colorimetric) is OFF. Such areas would be inked, not blank.
- White or clear ink generation is off or only on areas which already have color ink. E.g. Bounding Box would make all raster lines non-blank.
- A blank area in the middle of the job (Middle Skip) must have a minimum height. Below the minimum height the area will not be skipped.

This example shows a simplified job with two big text lines:



You must enable the feature on the printer software as well. Only then the optimization is done.

Media and ink consumption

The Fiery XF printer driver supports bidirectional communication with Management Information Systems (print MIS systems). Even if the system is not connected to a print MIS system, you can still view estimated media and ink consumption values calculated by Fiery XF:



To view media and ink consumption for the current job

- 1 In the job list of Command WorkStation, right-click the job and then click Job Details. The information is cumulative (adding from print to print).
- 2 Import the *.bco file in the print application. The ink amounts are shown there as well.

Source of the accounting information

The source of information depends on the connection type:

- Print via IP network:
 - During the TCP/IP data transfer, the port driver tracks the transferred print data and calculates the amounts from there.
- File Output
 - The Fiery XF driver writes an empty CSV file with the same name as the BCO file.
 - \circ The print application appends accounting information to this CSV file after each print run.
 - Once a minute, the Fiery XF driver updates the job information according to any CSV updates.