

VUTEk D3r/D5r [FAST DRIVE]

This document describes the specifics of the VUTEk D3r/D5r printer driver. The driver supports the following printer models:

- VUTEk D3r [FAST DRIVE]
- VUTEk D5r [FAST DRIVE]

Each printer model supports four colors using CMYK and additionally white and/or clear.

Installation

Install Fiery XF 7.3.2 or later. The Fiery XF drivers are available only for the Windows server.

Printer driver

Configuration

The VUTEk D3r/D5r 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.

INFORMATION

Name
VUTEk D3r [FAST DRIVE]

Description

Manufacturer
EFI VUTEk

Printer Type
VUTEk D3r [FAST DRIVE]

CONNECTION

Connection type
File output

Export path
C:/ProgramData/EFI/EFI XF/Server/Export Choose...

Username:

Password: Test

Naming
%order_%job_%jobid_%t_%p_%date ⓘ
Example: 001_FileName_1_T1_P1_20191209131059

Database server

Host name or IP address:
127.0.0.1 Test

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 VUTEk D3r/D5r FE (Front End) machine may have a shared network folder that you can specify in Fiery XF for direct output.

Database server

A SQL database is used for connection to EFI MIS systems. This is not required for most printer installations.

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 VUTEk D3r/D5r 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

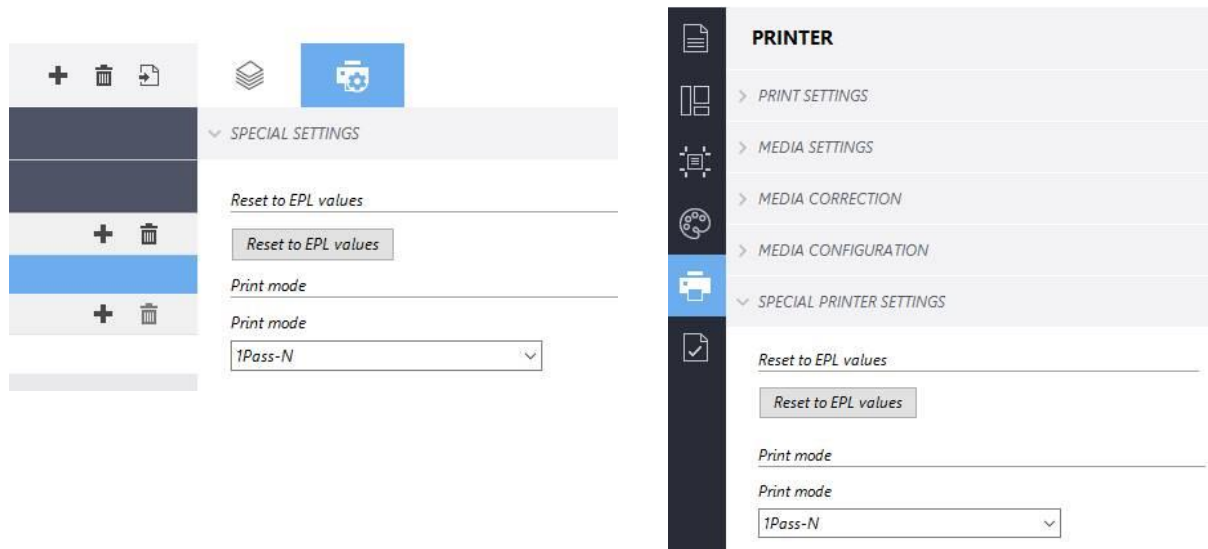
▲ = Space character

The job ticket xml contains job-specific information for the VUTEk D3r/D5r printer, including the printer mode to be used and layout options.

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 CMYK, only the resolutions and print modes applicable for this color mode are displayed. The Halftone mode should always be set to “Use halftoning from EPL”.

Clicking “Reset to EPL values” button will reset the resolution and print mode to the values saved in the media profile.

White Inks

All VUTEk D3r/D5r printer models support White ink. However, be aware that the White ink is optional, depending on the configuration of the physical device.

Print mode:
 ▾
 White ink coverage: %
 Spread and choke: mm

You can generate White 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), Inked Image or Inked Image Inverse. Details of creating white calibration is available in the Advanced Calibration Guide.

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 VUTEk D3r/D5r FE side.

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

The following options are available under **Print Mode** for white ink

Option	Description
Spot color WHITE_INK	The spot color of this name or alias from a separated document prints white ink
Bounding Box	Every pixel in the image rectangle adds white ink. This is the recommended more during linearization and profile creation.
Fixed ink amount on printed areas	Every pixel which does not have CMYK = 0,0,0,0 on the printer side adds white ink.
Fixed ink amount on printed areas (inverted)	Similar to the above but inverted
Dynamic ink amount on printed areas	Additional white ink is applied to light areas. White ink is reduced in darker areas to save white ink.

Dynamic ink amount on printed areas (inverted)	Similar to the above but inverted
Off	

White Ink Coverage options only apply to Fixed ink amount on printed areas, Fixed ink amount on printed areas (inverted) and White_BOUNDING BOX print modes. These options change the overall coverage of white for these modes.

Spread: Expands the size of the White_Ink area. Can be used to have a white frame printed around an image. Is obtained by entering a positive value.

Choke: Decreases the size of the White_Ink area. Mostly used to avoid white ink bleeding from under the CMYK part of a file, to compensate for eventual hardware misalignment.

Clear\Varnish\Coat Ink

All VUTEk Q3r/Q5r printer models support Clear ink. However, be aware that the Clear ink is optional, depending on the configuration of the physical device.

Clear ink printing

Print mode:

Spot color CLEAR_INK

Clear ink coverage: 100 %

You can generate 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), Inked Image or Inked Image Inverse.

Important: Not all print modes create Clear ink TIFF separations, even if the 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 Clear print modes accept these separations on the VUTEk Q3r/Q5r FE side.

For example: If you use the **4C-2Pass-Q** print mode, no clear separation will be created, because it is a non-clear print mode. However, if you switch to the **4C-Coat-Matte-Q** print mode, a clear separated TIFF will be produced in the job folder.

The following options are available under Print Mode for clear ink

Option	Description
Spot color CLEAR_INK	The spot color of this name or alias from a separated document prints clear ink
Bounding Box	Every pixel in the image rectangle adds clear ink. This is recommended more during linearization and profile creation.
Fixed ink amount on printed areas	Every pixel which does not have CMYK = 0,0,0,0 on the printer side adds clear ink.
Fixed ink amount on printed areas (inverted)	Similar to the above but inverted
Dynamic ink amount on printed areas	Additional clear ink is applied to light areas. Clear ink is reduced in darker areas to save ink.
Dynamic ink amount on printed areas (inverted)	Similar to the above but inverted
Off	Blank separation will be generated

Clear Ink Coverage options only apply to Fixed ink amount on printed areas, Fixed ink amount on printed areas (inverted) and BOUNDING BOX print modes. These options change the overall coverage of clear for these modes.

Layout options

The following layout options are available in Fiery XF:

Layout Options

Alignment:

Default

Mirror

Rotate 180 degrees

Compression

Compression

Setting	Description
Alignment	Aligns the job horizontally on the media
Mirror	Mirrors the job horizontally
Rotate 180°	Rotates the job by 180 degrees
Compression	This is enabled by default and supports compression of data send to printer

These options are set inside the job ticket xml of the job, and are reflected on the VUTEk D3r/D5r FE user interface. If you change the setting on the VUTEk D3r/D5r 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 VUTEk D3r/D5r printer at the time of printing.

Available Print Modes

The following print modes are available in Fiery XF 7.1.4 onwards. Additional custom print modes may be available. Contact inkjet support to inquire about additional print modes. For details on the different print modes and how to process and print using them see the printer operations manual.

Print Mode Name	X-Res	Y-res	Drop size (pico ltr)	Prints White Ink?	Prints Clear Ink?	Comments
1Pass-N	318	600	28	No	No	
2Pass-N	726	1200	7	No	No	
2Pass-N1	726	1200	7	No	No	
3Pass-N	726	1200	7	No	No	
5Pass-N	726	1200	7	No	No	
5Pass-HQ5	847	1200	5	No	No	
6Pass-N	726	1200	7	No	No	
WO-N	726	1200	7	Yes	No	
WU-N	726	1200	7	Yes	No	
WU-Production-N	726	1200	7	Yes	No	
CWC-N	726	1200	7	Yes	No	
CWC-C1-N	726	1200	7	Yes	No	
CWC-C2-N	726	1200	7	Yes	No	
CWBWC-C1-N	726	1200	7	Yes	No	
CWBWC-C2-N	726	1200	7	Yes	No	
4C-Coat_Gloss-N	726	1200	7	No	Yes	
4C-Coat_Matte-N	726	1200	7	No	Yes	
WU-Coat_Gloss-N	726	1200	7	Yes	Yes	
WU-Coat_Gloss-Production-N	726	1200	7	Yes	Yes	
WU-Coat_Matte-N	726	1200	7	Yes	Yes	
WU-Coat_Matte-TX-N	726	1200	7	Yes	Yes	
WU-Coat_Matte-4N	726	1200	7	Yes	Yes	
WO-4N	726	1200	7	Yes	No	
WU-4N	726	1200	7	Yes	No	
WU-F-4N	726	1200	7	Yes	No	
CWC-4N	726	1200	7	Yes	No	
CWCWB-C1-4N	726	1200	7	Yes	No	
CWCWB-C2-4N	726	1200	7	Yes	No	
WWU-Producton-N	726	1200	7	Yes	No	XF 7.3.2
WWU-F-Producton-N	726	1200	7	Yes	No	XF 7.3.2
WWU-Coat_Production-N	726	1200	7	Yes	Yes	XF 7.3.2
WW-Coat_Production-N	726	1200	7	Yes	Yes	XF 7.3.2

Change History

Version	Date	Description	Updated by	Affected XF Versions
v1.0	09-Dec-19	First Draft	Ratan Kumar Burnwal	Fiery XF 7.1.4
v1.1	23-Jan-20	First version	Ratan Kumar Burnwal	Fiery XF 7.1.4
v1.2	17-Mar-22	Updated for 7.3.2	Nikhil Agarwal	Fiery XF 7.3.2