

New generation output software with 16 bit rendering (bundled item)

High performance RIP software designed to fully enable all advanced features of JFX-1631 / 1615plus

RasterLink Pro5 IP

16 bit rendering eliminates tone jumps and produces fine color reproduction. Different images can be freely nested on the RIP. The web update function has been added to RasterLink Pro5 to easily achieve both software update and profile download.



■Specifications

Item	Specifications	
	JFX-1631plus	JFX-1615plus
Head	On-demand Piezo head	
Print resolution	300×600dpi, 450×600dpi, 600×600dpi, 600×1200dpi, 1200×1200dpi	
Ink	Type	LH-100 hard UV ink (C/M/Y/K/W/CL)
	Capacity	LF-200 flexible UV ink (C/M/Y/K/W)
Maximum print width (W) × (D)		600 ml ink pack
	With post-curing unit	1,602 × 3,100 mm (63.1 × 122") / 1,602 × 1,500 mm (63.1 × 59.1")
Print accuracy	Absolute accuracy	± 0.3 mm (0.01") or ± 0.3% from specified print distance
	Repeatability	± 0.2 mm (0.01") or ± 0.1% from specified print distance
	Perpendicularity	± 0.5 mm / 500 mm (0.02 / 19.7")
Usable media	Size (W×D)	1,644 × 3,194 mm (64.7 × 125.7") / 1,644 × 1,594 mm (64.7 × 62.8")
	Thickness	Max. 50 mm (2")
	Weight	Less than 50 kg (110.2 lbs.) (when the media is loaded evenly)
Media table	Air suction by vacuum	
UV unit	Vacuum area	Vertically divided into 4 zones / Vertically divided into 2 zones
	Lifetime *1	Equipped with UV Light Emitting Diodes / About 10,000 hours
Post-curing unit	UV unit	Equipped with fluorescent UV tube lamp *2
	Lifetime *1	About 1,000 hours *3
	Power specifications	1-phase : AC 200 - 240 V, 50/60 Hz, (power from main unit)
	Power consumption	Less than 400 VA
	Dimensions / Weight (W) × (D) × (H)	1,980 mm × 185 mm × 300 mm / 13 kg (78 × 7.3 × 11.8" / 28.7 lbs.)
Interface	USB 2.0	
Applicable standard	VCCI class A, CE Marking, CB Report, UL, RoHS Directive	
Power specifications	AC 200 - 240 V, 50/60 Hz	
Power consumption	Less than 2.0 kVA	
Operational environment	Temperature	15 - 30 °C (59 - 86 °F)
	Humidity	35 - 65 %Rh
	Temperature accuracy	18 - 25 °C (64.4 - 77 °F)
	Temperature gradient	Less than ± 10 °C/h (18 °F)
	Dust	Equivalent to normal office level
Dimensions (W) × (D) × (H)	4,200 × 4,300 × 1,600 mm (165.4 × 169.3 × 63")	4,200 × 2,620 × 1,600 mm (165.4 × 103.1 × 63")
Weight	1,613 kg (3,556 lbs.)	1,313 kg (2,894.6 lbs.)

\*1 Reference value. There is no guarantee as to the lifetime.  
 \*2 Post-curing unit is equipped with 3 fluorescent UV tube lamps in one set.  
 \*3 After about 1,000 hours of usage illumination level declines by about 20%.

■Specifications for RU-160 roll unit

Item	Specifications	
Carrier system	Page to Page *	
Usable media	Width	300 mm - 1,600 mm (11.8 - 63")
	Thickness	0.05 mm - 1.0 mm (0.002 - 0.04")
	Weight	Less than 50 kg
	Roll outside diameter	Up to φ200 mm (7.9")
	Roll inside diameter	3 inch
	Print surface	Inside/outside selectable
Power specifications	1-phase : AC 200 - 240 V, 50 / 60 Hz, (power from main unit)	
Power consumption	Less than 150 VA	
Dimensions	Incl. JFX-1631plus (W) × (D) × (H)	4,300 × 5,000 × 1,600 mm (Main unit + Roll unit) (169.3 × 196.9 × 63")
	Incl. JFX-1615plus (W) × (D) × (H)	4,300 × 3,500 × 1,600 mm (Main unit + Roll unit) (169.3 × 137.8 × 63")
Weight	Incl. JFX-1631plus	1,813 kg (Main unit 1,613 kg + Roll unit 200 kg) 3,997 lbs. (Main unit 3,556 lbs. + Roll unit 440.9 lbs.)
	Incl. JFX-1615plus	1,513 kg (Main unit 1,313 kg + Roll unit 200 kg) 3,335.5 lbs. (Main unit 2,894.6 lbs. + Roll unit 440.9 lbs.)

\*Each print size is limited to the maximum print area available on the flatbed.

■Supplies

Item	Color	Item No.	Remarks
LH-100	Cyan	SPC-0597C	
	Magenta	SPC-0597M	
	Yellow	SPC-0597Y	
	Black	SPC-0597K	
	White	SPC-0597W	
	Clear	SPC-0597CL	
	LF-140 [NEW]	Cyan	
Magenta		SPC-0728M	
Yellow		SPC-0728Y	
Black		SPC-0728K	
Light Cyan		SPC-0728Lc	
Light Magenta		SPC-0728Lm	
White		SPC-0728W	
LF-200	Cyan	SPC-0591C	
	Magenta	SPC-0591M	
	Yellow	SPC-0591Y	
	Black	SPC-0591K	
	White	SPC-0591W	
PR-100 (Inkjet Primer) [NEW]		SPC-0732	
Eco-cartridge		OPT-J0237	8 pcs
Cleaning solution (for both LH-100 and LF-200)		SPC-0606FS	400 ml cartridge
UV primer GM-1		SPC-0541	500 ml
Fluorescent UV tube lamp		SPC-0690	3 pcs

\*1 600 ml ink pack requires eco cartridge (OPT-J0237). Eco cartridges can be used repeatedly by replacing ink packs.  
 \*2 Inkjet primer cannot be used in conjunction with LF-200 inks.  
 \*3 Clear ink is not available for LF-140 inks. However LH-100 clear ink can be used in combination with LF-140 inks.

■Option

Item	Item No.	Remarks
RU-160 roll unit	OPT-J0252	Delivery & Retraction unit
Ionizer kit	OPT-J0213	1 kit for each printer
Vacuum unit (3 φ - 200)	OPT-J0216	3-phase : 200 - 240 V, 30 A, 3.4 kW
Vacuum unit (1 φ - 200)	OPT-J0217	1-phase : 200 - 240 V, 30 A, 1.9 kW
Vacuum unit (3 φ - 400)	OPT-J0232	3-phase : 380 - 480 V, 20 A, 3.4 kW
IF unit for external vacuum	OPT-J0202	1-phase / 3-phase : 200 - 400 V, 30 A

\* A vacuum unit is not included in JFX-1631plus or JFX-1615plus. Please purchase the vacuum unit separately.  
 \* Additional power source is required in order to use the vacuum unit.  
 \* Each vacuum unit includes IF units for external vacuum (OPT-J0202).

⚠ Inks and substrates:

Please note that properties and adhesion, weather resistance etc. of ink and substrates can vary. Therefore please test materials before printing.  
 \* Some substrates require primer before printing. Please test materials beforehand or ask your sales representative.

⚠ Safety notice:

You are dealing with UV light sources that may harm your health. Please follow below guidelines strictly:  
 \* Do not look directly into the UV light source nor place your hand, or expose your skin directly to the UV light source.  
 \* Depending upon print mode, there might occur some VOC emittance from printed parts not yet cured and hardened  
 \* In addition, please read the instructions and guidelines of the manual carefully and follow those.

Large Format UV LED Curable Flatbed Inkjet Printer

Mimaki

JFXplus Series  
 JFX-1631plus / JFX-1615plus



Now with Inkjet Primer capability and new UV curable ink offerings will open a host of new possibilities and applications



Highest Precision UV LED Printer  
 plus HIGHER SPEED  
 plus MORE FLEXIBILITY



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DB10267-02

# Experience the great benefits of UV LED printing combined with a dramatic increase in productivity.

Always striving for the best, Mimaki has achieved significant productivity enhancements for its flatbed UV LED printer series JFX with up to 80 % higher speeds. The new JFX plus series features a standard post-curing unit that enables printing of up to 23.6 sqm/h. This is nearly twice as fast as previous models.

A roll unit has been developed to boost efficiency and productivity when printing on roll fed substrates.

In addition, Mimaki's IMS\* technology ensures the highest image quality exceeding your customers' expectations.

\* IMS=Intelligent Microstepping System



Hybrid

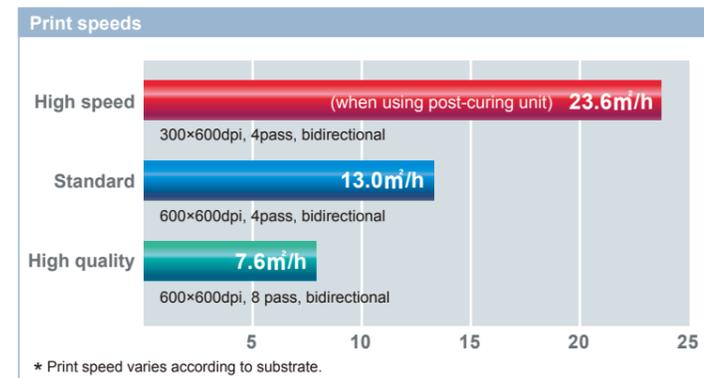
High Speed

High accuracy

Ink variation

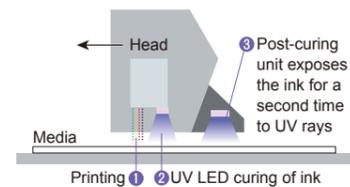
## Post-curing unit

As standard, JFX plus series is now equipped with a post-curing unit that cures the print after its first exposure by UV LEDs thus enabling nearly double the print speed as previous models. Print service providers can now cater to their clients' needs for fast turnarounds, quick changes and short run orders while at the same time increasing productivity and efficiency.



## Post-curing unit

### High speed UV ink curing

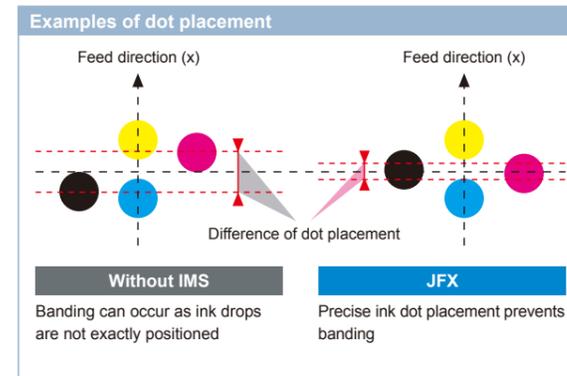


without post-curing unit	with post-curing unit
Max. print size 1,600mm x 3,100mm	Max. print size 1,600mm x 2,700mm

\* Please note that when using the post-curing unit for high speed printing and curing, maximum print size is shortened by 150 mm (front), 250 mm (back) and 400 mm (total). The printer automatically switches sizes when post-curing is selected. Therefore please make sure to adhere to the maximum print sizes according to your selected print and curing mode. (The image on the left shows the maximum print size without post-curing)

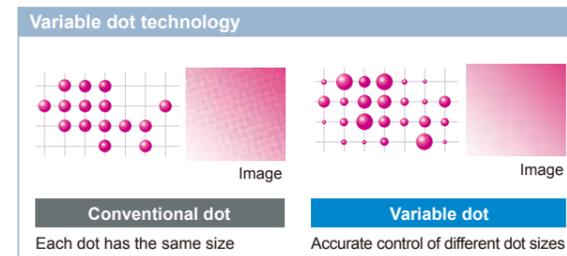
## IMS for highly detailed and accurate prints

The new head positioning mechanism uses high resolution linear scale for fine step accuracy of dot placement. This results in far fewer banding artifacts and even the possibility to print legible 3pt characters.



## High resolution of 1200 x 1200 dpi and variable drops

High image quality is achieved by utilizing a resolution of up to 1200 x 1200 dpi and variable dot sizes. Even printing in 4-color mode realizes a non-grainy print, thus prints show smooth gradations and highly detailed images.



## Different UV inks cater to your requirements

Type	LH-100 LH-100	LF-140 LF-140 *1	NEW LF-200 LF-200 *1
Colors	C M Y K + W + CL	C M Y K Lc Lm + W + CL *2	C M Y K + W
Features	Excels in scratch and chemical resistance as well as color reproduction. Ideal for substrates that do not require bending or folding during post-processing.	Strong gradation in six color printing (CMYK+LcLm) with reducing granular appearance. The ink is more flexible than LH-100 ink thus making it less likely to crack during post-processing.	Enables stretching of ink up to 200% during post-processing work. No cracking of printed image without breaking the cured ink surface.

\*1 As ink flexibility of LF-200 ink and LF-140 ink vary according to the substrate, please verify your substrate in advance.  
\*2 Clear ink is not available for LF-140 inks. However LH-100 clear ink can be used in combination with LF-140 inks.

## Impressive effects

### Add value with glossy finishing and multi-layered printing

Glossy or matte spot varnish with clear ink offers unique eye-catching effects on your prints. Furthermore by printing different layers of ink and/or gloss, your images will not only look more enticing but also will have a raised / embossed quality that will satisfy your customers.

White ink underprint prevents the transmission of light, resulting in more vivid images.

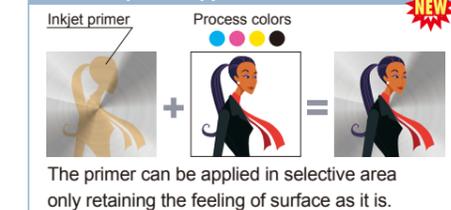


## Automatic primer application functionality

The primer does not require extra printing time as it is simultaneously applied with the process colors during printing. Thus process streamlines the printer workflows significantly without compromising speed.\*

\* When printing with primer and white or clear ink production speed is reduced by approximately 50%.

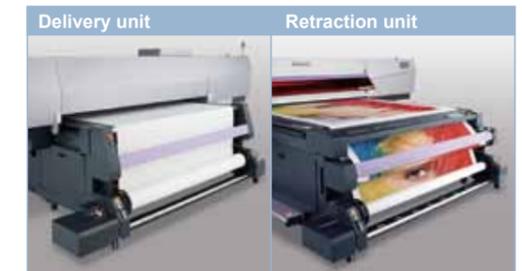
## Selective primer application



## Print on rigid boards and roll media with the same machine

While printing on rigid substrates up to 50 mm thickness is standard, JFX plus also answers the demand of print service providers for hybrid printing on roll media. An optional roll unit is available that enhances productivity and efficiency by accommodating unattended printing of several or different jobs\* enabling fast turnaround times.

\* Each job is limited by the max. print size of JFX plus.



## Ecology

### Environmentally friendly printing

Almost no VOCs are generated by UV curing print. In addition, diodes that are used for Mimaki's UV LED system feature a long lifetime and are using considerably less power than conventional UV lamps. Furthermore by using Mimaki's Eco-cartridge system, waste is reduced as the ink pack inside of the cartridge casing needs to be replaced.

\* The post-curing unit employs a fluorescent UV tube lamp.

### Eco - Cartridge

