New generation output software with 16 bit rendering (a standard item)

High performance RIP software designed to fully enable all advanced features of the JFX plus series

RasterLink Pro5 IP

16 bit rendering eliminates tone jump and produces fine colour reproduction. Different images can be freely nested on the RIP. The web update function has been newly added to Rasterlink Pro 5 to easily achieve both software update and profile download.

Specifications

Item		Specifications	
		JFX-1631plus	JFX-1615plus
Print head		On-demand Piezo head	
Print resolution		300x600 dpi, 450x600 dpi, 600x600 dpi, 600x1200 dpi, 1200x1200 dpi	
Ink	Type	LH-100 hard UV ink (C/M/Y/K/W/CL)	
		LF-200 flexible UV ink (C/M/Y/K/W)	
	Capacity	600 ml ink pack	
Maximum print width (W x D)		1,602 x 3,100mm (63.1 x 122")	1,602 x 1,500 mm (63.1 x 59.1")
	With post-curing unit	1,602 x 2,700 mm (63.1 x 106.3")	1,602 x 1,100 mm (63.1 x 43.3")
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")	
Media	Size (W x D)	1,644 x 3,194 mm (64.7 x 125.7")	1,644 x 1,594 mm (64.7 x 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	
	Vacuum area	Vertically divided into 4 zones	Vertically divided into 2 zones
UV unit		Equipped with UV Light Emitting Diodes	
	Lifetime *1	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 - 240V, 50/60 Hz (power from main unit)	
	Power consumption	Less than 400 VA	
	Dimensions/ Weight (W x D x H)	1,980 mm x 185 mm x 300 mm / 13 kg	
		(78 x 7.3 x 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 – 77 °F)	
	Temperature gradient	Less than ± 10 °C / h (18 °F)	
	Dust	Equivalent to normal office level	
Dimensions (W x D x H)		4,200 x 4,300 x 1,600 mm (165.4 x 169.3 x 63")	4,200 x 2,620 x 1,600 mm (165.4 x 103.1 x 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%.

⚠️ **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.

Supplies

Item	Colour	Item No.	Remarks
LF-200 Flexible UV Ink	Cyan	SPC-0591C	600 ml ink pack
	Magenta	SPC-0591M	
	Yellow	SPC-0591Y	
	Black	SPC-0591K	
	White	SPC-0591W	
LH-100 Hard UV Ink	Cyan	SPC-0597C	600 ml ink pack
	Magenta	SPC-0597M	
	Yellow	SPC-0597Y	
	Black	SPC-0597K	
	White	SPC-0597W	
	Clear	SPC-0597CL	
Eco-cartridge		OPT-J0237	8 pcs
Cleaning solution (for LF-200 and LH-100)		SPC-0606FS	400 ml cartridge
UV primer GM-1		SPC-0541	500 ml
Fluorescent UV tube lamp		SPC-0690	3 pcs

Option

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

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

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 φ 200 mm (7.9")
	Roll inside diameter	3 inch
Print surface		Inside / outside selectable
Power specifications		1-phase: AC 200-240V, 50/60 Hz, (power from main unit)
Power consumption		Less than 150 VA
Dimensions	Incl. JFX-1631plus (W x D x H)	4,300 x 5,000 x 1,600 mm (Main + roll unit) (169.3 x 196.9 x 63")
	Incl. JFX-1615plus (W x D x H)	4,300 x 3,500 x 1,600 mm (Main + roll unit) (169.3 x 137.8 x 63")
Weight	Incl. JFX-1631plus	1,813 kg (Main 1,613 kg + Roll unit 200 kg)
	Incl. JFX-1615plus	1,513 kg (Main 1,313 kg + Roll unit 200 kg)

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

ISO 14001 JACO
UKAS MANAGEMENT SYSTEMS 051
EC08J0126

Our factory is certified ISO14001:2004
Mimaki Engineering CO., LTD.

Highest Precision UV LED Printer

UV LED CURABLE

23.6 m²/h
MAX. PRINT SPEED

FLEXIBLE / HARD INK

5 CM
MAX. MEDIA THICKNESS

1200 DPI
MAX. RESOLUTION

4 COLOURS +
WHITE & CLEAR AVAILABLE

OPTIONAL ROLL UNIT

UV LED BENEFITS

plus HIGHER SPEED

plus MORE FLEXIBILITY

JFX-1631plus   **JFX-1615plus**

MARKET	
SIGN GRAPHICS	INDUSTRIAL PRODUCTS

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

JFX-1631plus

JFX-1615plus

Ecology

Hybrid

High speed

High accuracy

Ink variation

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
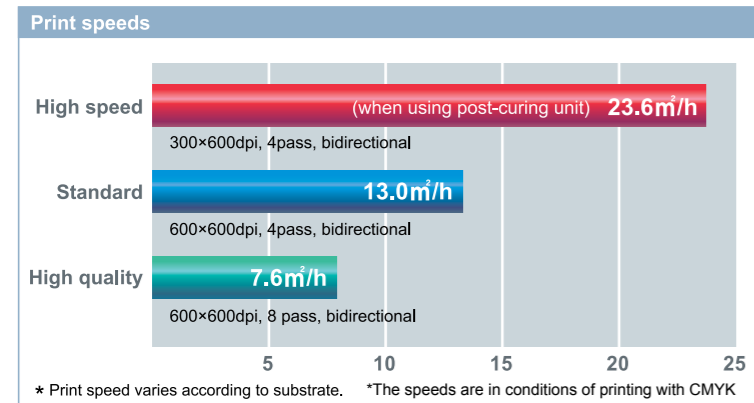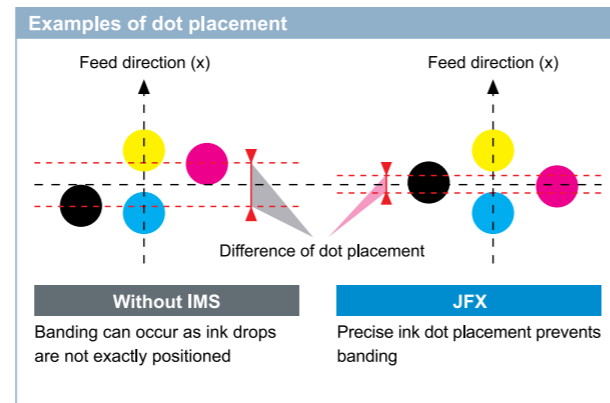
Post-curing unit

As standard, JFX plus series is 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.

Print speeds

High speed	(when using post-curing unit) **23.6㎡/h**
	300×600dpi, 4pass, bidirectional
Standard	**13.0㎡/h**
	600×600dpi, 4pass, bidirectional
High quality	**7.6㎡/h**
	600×600dpi, 8 pass, bidirectional

5　10　15　20　25

* Print speed varies according to substrate.　*The speeds are in conditions of printing with CMYK

Post-curing unit

High speed UV ink curing

Head

③ Post-curing unit exposes the ink for a second time to UV rays

Media

Printing ①　② UV LED curing of ink

without post-curing unit	with post-curing unit
Max. print size 1,600mm × 3,100mm	Max. print size 1,600mm × 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)
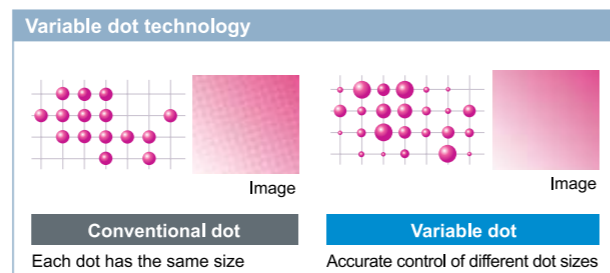
IMS for highly detailed and accurate prints

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.

Examples of dot placement

Feed direction (x)　　　Feed direction (x)

Difference of dot placement

Without IMS	JFX
Banding can occur as ink drops are not exactly positioned	Precise ink dot placement prevents banding

High resolution of 1200 x 1200 dpi and variable drops

High image quality is achieved by utilising a resolution of up to 1200 x 1200 dpi and variable dot sizes. Even printing in 4-colour mode realises a non-grainy print, thus prints show smooth gradations and highly detailed images.
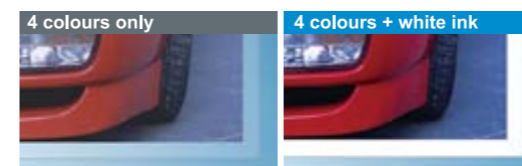
1,200 × 1,200 dpi

Variable dot technology

Image　　　Image

Conventional dot	Variable dot
Each dot has the same size	Accurate control of different dot sizes

Different UV inks cater to your requirements

Type	LH-100 Hard UV ink	LF-200 Flexible UV ink
Colors	C M Y K + W + CL	C M Y K + W
Features	High scratch and chemical resistance, superior coloration.	200% elasticity, suitable for embossing and other post-processing tasks.
Main Appli-cations	Flat surfaces, acrylic and aluminum compound boards, styrene boards, CCNB etc.	Flat and uneven surfaces, vehicle wraps, vinyl chloride film, packaging, banners etc.

* As Ink expansion of LF-200 ink varies according to the substrate, please verify your substrate in advance.

More vivid images with white ink

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

White Ink

4 colours only	4 colours + white ink

* Sample print on transparent acrylic

Clear ink adds more value to your prints

Glossy or matte finishing varnish with clear ink* realises astounding and eye-catching effects on your prints. Depending on your design, you can add protective coating to protect surfaces or spot coating for design accents.

Clear Ink

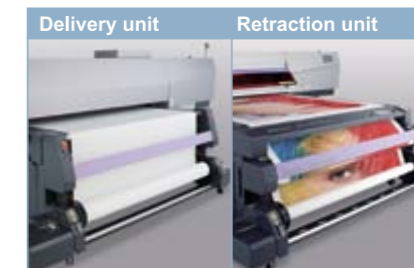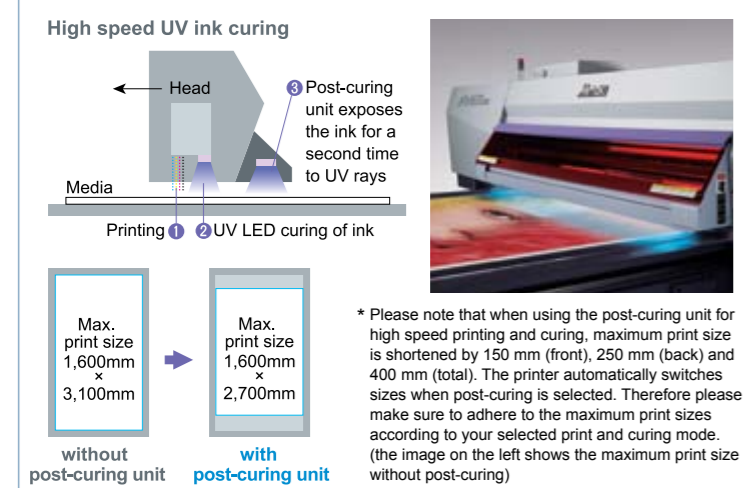* Clear ink can only be used with LH-100 ink

Haptic effects with multi-layered print

By printing several layers of ink and/or gloss, your images will not only look more enticing but also will have a haptic feel that will satisfy your clients.

Multi-layered print

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, which 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.

Delivery unit	Retraction unit

Print & Cut

Add even more productivity and value to your shop with Print & Cut solutions

Raise your efficiency even more by combining JFX plus series printers with Mimaki's CF3 series of cutting plotters enabling highly accurate cuts of all your printed projects. A great way to expand your business to new markets.

CF3-1631