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

New generation of output software with 16 bit rendering

RasterLink Pro 5 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.

JFX plus Series

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)	
		LF-140 ink (C/M/Y/K/Lc/Lm/W)	
	Capacity	600 ml ink pack	
Inkjet primer		PR-100	
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	
NEW LF-140 UV ink	Cyan	SPC-0728C	600 ml ink pack
	Magenta	SPC-0728M	
	Yellow	SPC-0728Y	
	Black	SPC-0728K	
	Light cyan	SPC-0728Lc	
	Light magenta	SPC-0728Lm	
	White	SPC-0728W	
Eco-cartridge		OPT-J0237	8 pcs
Cleaning solution		SPC-0606FS	400 ml cartridge
NEW PR-100 Inkjet primer		SPC-0732	600 ml ink pack
UV primer GM-1		SPC-0541	500 ml
Ionizer kit		OPT-J0213	1 kit for each unit
Fluorescent UV tube lamp		SPC-0690	3 pcs

Options (not included)

Item	Item No.	Remarks
RU-160 roll unit	OPT-J0252	Delivery & Retraction 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

• 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.

High precision UV LED printer···

SG SIGN & GRAPHICS

IP INDUSTRIAL PRODUCTS

Mimaki The world imagines... Mimaki delivers

MIMAKI

Highest precision UV LED flatbed printer

Higher speed, greater flexibility… Always striving for precision and innovation, Mimaki has added the new JFX plus series to its line-up of UV inkjet printers, featuring 80% higher print speed compared to its predecessor. With two sizes and the possibility to print on rigid and roll media, the JFX plus series offers outstanding flexibility in addition to its exceptional print quality.

ENGINEERING EXCELLENCE AND CREATIVE INNOVATION

Founded in Japan in 1975, Mimaki Engineering has steadily grown by reputation and influence into a global company with large operational bases in Asia and the Pacific, United States and Europe.

Renowned for award-winning performance, peerless build quality and innovative technology, Mimaki has established itself as a leading manufacturer of wide-format inkjet printers and cutting machines for the sign and graphics, textile and apparel and industrial markets. In addition, Mimaki also provides a comprehensive range of supporting products; hardware, software and associated consumable items, such as inks and cutting blades.

From outdoor signage and billboards to interior decoration and furnishing, from packaging and labels to promotional gifts and apparel, Mimaki is committed to developing technology that sets new industry standards, producing machines and products that turn the imagination of our customers into breath-taking reality.

··· Mimaki delivers

JFX plus Series delivers ···

- High precision printing up to 1200 dpi, legibility at 3-point text
- No media deformation, no drying time, no warm up time
- Maximum speed of 23.6 m^2/h with post-curing unit
- Available in two sizes: 160 x 310 cm and 160 x 150 cm
- Direct printing on media up to 50mm thick
- Flexible and Hard UV LED inks, including white and clear varnish
- Environmentally-friendly printing technology
- Optional roll unit for printing on roll substrates
- More vivid images with white ink underprint
- Clear ink provides spot or protective coating to prints
- Multi-layered print provides Haptic effects
- Also available: Inkjet Primer and LF-140 ink (6 colours)

UV LED CURABLE
23.6 m^2/h MAX. PRINT SPEED
FLEXIBLE/HARD INK OPTIONS
1200dpi MAX. RESOLUTION
50mm MAX. MEDIA THICKNESS
4 / 6 COLOURS
WHITE INK / CLEAR INK / INKJET PRIMER
OPTIONAL ROLL UNIT

Create ··· Large format signage & graphics where the highest quality image definition is the main priority, including exhibition graphics, interior decor panels, creative displays and much more…
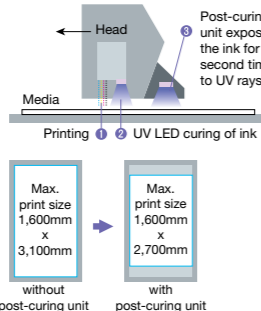
KEY TECHNICAL FEATURES ···

Post-curing unit

A post-curing unit cures the print after first exposure by UV LEDs enabling nearly double the print speed of previous models.

NB: 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). Printer automatically switches sizes when post-curing is selected. Please adhere to the maximum print sizes according to selected mode.
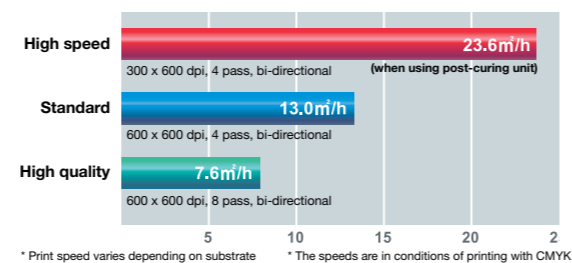
High speed UV ink curing

Head

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

Media

Printing ❶ ❷ UV LED curing of ink

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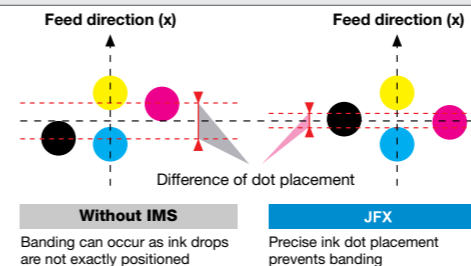
Max. print size 1,600mm x 2,700mm
with post-curing unit

Efficient, high speed printing

Print service providers can now cater to client needs for fast turnarounds, quick changes and short run orders while at the same time increasing productivity and efficiency.

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

5   10   15   20   2

* Print speed varies depending on substrate   * The speeds are in conditions of printing with CMYK

Intelligent Microstepping System (IMS)

New head positioning mechanism uses high resolution linear scale for fine step accuracy of dot placement, resulting in far less banding and even the possibility to print legible 3pt characters.

Feed direction (x)   Feed direction (x)

Difference of dot placement

Without IMS

Banding can occur as ink drops are not exactly positioned

JFX

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.

image   image

Conventional dot

Each dot has the same size

Variable dot

Accurate control of different dot sizes