

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



The high performance RIP software is designed to fully enable all advanced features of JFX-1631

RasterLink Pro 5 IP



[8 bit rendering]
Tone jumps are likely to occur



[16 bit rendering]
Smooth gradation without tone jump

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	
Print head	On-demand Piezo head	
Print resolution	600 x 600 dpi, 600 x 1200 dpi, 1200 x 1200 dpi	
Ink	UV curable ink (both flexible and hard types are available) C M Y K, C M Y K W, C M Y K W CL	
Maximum print width	Width: 1,602 mm (63.1"), Length: 3,100 mm (122")	
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	
Media	Width	1,694 mm x 3,194 mm (66.7 " x 125.7 ")
	Thickness	Max. 50 mm (1.97 ")
	Weight	Less than 200 kg (50 kg per sqm)
Media set device	Air suction by vacuum	
UV device	UV LED	
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
Weight	1,600 kg	
Dimensions (W x D x H)	4,200 mm x 4,300 mm x 1,600 mm (165.4" x 169.3" x 63.0")	

Supplies

Item	Colour	Item No.	Remarks
LF-200 Flexible UV Ink	Cyan	SPC-0591C	Contained in 600 ml ink pack
	Magenta	SPC-0591M	
	Yellow	SPC-0591Y	
	Black	SPC-0591K	
	White	SPC-0591W	
LH-100 Hard UV Ink	Cyan	SPC-0597C	Contained in 600 ml ink pack
	Magenta	SPC-0597M	
	Yellow	SPC-0597Y	
	Black	SPC-0597K	
	White	SPC-0597W	
Cleaning solution (for LF-200 and LH-100)		SPC-0606FS	400 ml cartridge
Ionizer kit		OPT-J0213	1 kit for each printer
Vacuum unit (1 φ – 200)		OPT-J0217	1-phase: 200 - 240V, 30A, 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-1631. 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).

Notice on materials and ink performance

- Post-printing ink performance (adhesion, weather durability, etc.) varies according to the material.
- If printing materials other than those described are to be used, please test the materials first.
- Adhesion performance differs according to the material. Thus, there are cases in which optimization of ink and anchor coat / overcoat is necessary.



Large Format UV LED Curable Flatbed Inkjet Printer
JFX-1631

• Some of the samples in this folder are artificial renderings • Specifications, design and dimensions stated in this folder may be subject to change without notice (for technical improvements, etc.) • The corporate and merchandise names written on this folder are the trademark of the respective corporations • Inkjet printers print using extreme fine dots, so colours may vary after replacement of the printing heads, also note that if using multiple printer units, colours could vary slightly from one unit to other unit due to slight individual differences • Composer's errors reserved

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JFX-1631

Mimaki



UV LED CURABLE

FLEXIBLE / HARD INK

160 x 310 cm
PRINT AREA

5 cm
MAX. MEDIA THICKNESS

1200 DPI
MAX. RESOLUTION

4 COLOURS + WHITE

7 DIFFERENT DOT SIZES

UV LED BENEFITS

Revolutionary new technology

Innovative UV LED Flatbed Inkjet Printer

Higher precision, faster operation, and broader selection of media

MARKET

SIGN GRAPHICS

INDUSTRIAL PRODUCTS

Expanding business opportunities with innovation

Revolutionary New UV LED Technology from Mimaki

Powered by Mimaki's cutting edge technologies including UV LED curing, Intelligent Microstepping System (IMS), and UV ink application, JFX-1631 provides a new digital workflow that will change the course of printing forever.

UV LED Curing Technology

No media deformation

The new UV LED curing technology does not emit infrared rays thus eliminating thermal deformation of media. The UV LED technology enables print on heat sensitive media such as acrylic and styrene panels. Due to its low operation temperature, users have a broader choice of media. This results in the creation of new and exciting applications on up to 50 mm thick substrates.

No drying time

Is drying time an obstacle to maximize your productivity? Not anymore. UV LED curing means instantaneous drying that eliminates post-printing drying time necessary when printing with aqueous or solvent inks. This innovation leads to dramatic reduction of job turnaround time (from printing to processing) and increase in productivity.

ECO-friendliness

JFX-1631, a highly specified UV LED curable flatbed inkjet printer is also environmentally friendly. Its UV LEDs have a longer lifetime and save about 2/3 in energy in comparison with conventional UV printers employing metal halide lamps.

Faster operation

UV LEDs do not need any warm-up time. They can be switched on and off whenever needed.



	UV LED	Metal Halide Lamp
Lifetime	5,000 hours	1,000 hours
Heat on media	Room temperature	Up to 80°C (176°F)
Boot time	Instantaneously	5 - 10 minutes

* Tested by Mimaki

Large Format UV LED Curable Flatbed Inkjet Printer JFX-1631



Intelligent Microstepping System (IMS)

Twice as fast

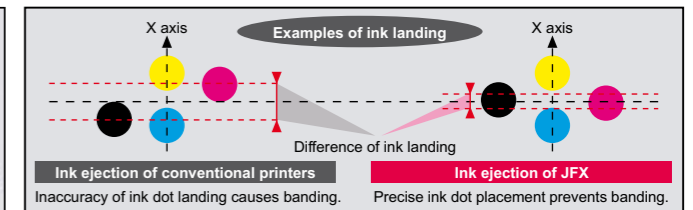
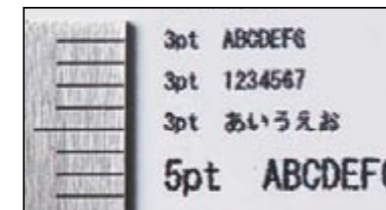
With 8 new high-speed heads, JFX-1631 enables users to print twice as fast as with Mimaki's JF Series, achieving a dramatic increase in productivity and a reduction of job turnaround time.

	Print Speed			
	C M Y K		C M Y K W	
Standard mode	13.0 m ² /h	140 sq.ft/h	6.5 m ² /h	70 sq.ft/h
High quality mode	7.6 m ² /h	82 sq.ft/h	3.8 m ² /h	41 sq.ft/h

* Print speeds vary depending on media

More precise, high quality prints

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



1,200 ×
1,200 dpi

7 different dot sizes

Maximum resolution of 1200 dpi and variable dot technology (7 different dot sizes) realise near photographic image quality. Even printing in 4-colour mode realises a non-grainy print. With a minimum dot size of 6 pl, sharp edges of small texts and smooth skin tones can be created.

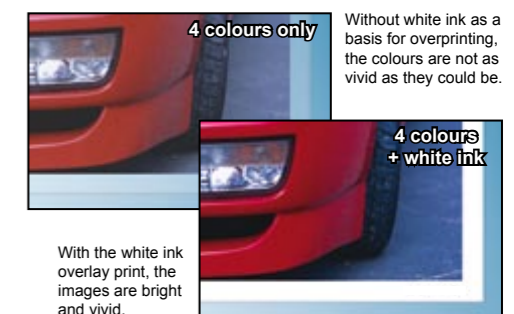
Wide Selection of Inks for Your Needs

Two types of ink for a broader selection of media

Types of Ink	LF-200 Flexible UV Ink	LF-200 Flexible UV Ink	LH-100 Hard UV Ink	LH-100 Hard UV Ink
Features	• 200% elasticity, suitable for media that can be bent		• High scratch resistance and chemical resistance	
Applications of colour inks	• Packaging (durable against creasing)	• White media such as POP displays and panels	• Aluminium composite boards	• Backlit film
Applications of white inks	• Embossing processes such as used in production of membran switches	• Packages using transparent materials	• Transparent materials such as glass and plastic	• Metal, resin (depending on types of material)

* Elasticity of LF-200 varies depending on types of material. Please contact our technician for more detail.

White Ink Overlay Print



< Sample prints on transparent acrylics >

Revolutionary Workflow

*compared with screen printing

