

# JFX500



## Mimaki JFX500-2131 Flatbed Printer

High speed, grand-format flatbed printer for all types of rigid media, signage and displays



# JFX500 features-at-a-glance

- Print resolutions up to 1200 dpi
- Print speeds up to 645 sqft/hr (CMYK mode)
- Economical 2-liter, 8 reservoir Ink Station
- UV-LED curing with CMYK plus white and clear – 3 ink sets plus 2 primers available
- Equipped with Mimaki's Intelligent Microstepping System for extremely accurate imaging
- Maximum media size: 6.9' x 10' x 2" thick

## HIGH UV QUALITY AT HIGHER SPEEDS

### High speed print head configuration

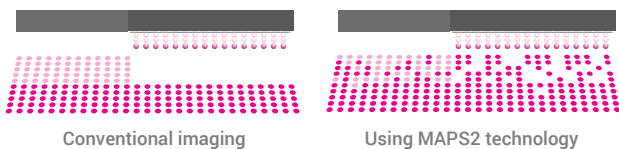
Equipped with six print heads in three staggered positions, the JFX500 printer achieves small variable dot imaging at speeds up to 645 sqft/hr\* in CMYK mode and maintains speeds up to 484 sqft/hr\* for white ink applications.

### Intelligent Microstepping System (IMS) provides highly detailed, accurate prints.

The JFX500 printer is equipped with two units of Mimaki's unique, highly-accurate linear scales controlled by the IMS for fine step accuracy and dot placement. This results in fewer banding artifacts along with the ability to print legible text as small as 2pt.

### Reduced appearance of banding with MAPS2.

MAPS2 (Mimaki Advanced Pass System 2) applies ink in gradations over several passes using a mask pattern that greatly reduces image banding. Immediate UV-LED curing also benefits banding reduction.



### The JFX500 printer utilizes the perfect UV ink for any substrate and application.

**LUS-150** 1.5 times more flexible than standard UV ink, this high-speed ink is less tacky when cured yet still resistant to cracking even with secondary processing.

**LUS-200** Twice the flexibility of standard UV inks. Strong adhesion and scratch resistance combined with high flexibility for outdoor applications.

**LH-100** This advanced UV ink produces a hard ink film that is highly resistant to scratches and chemicals while providing excellent color reproducibility. Perfect for applications that require no secondary processing such as bending or twisting.

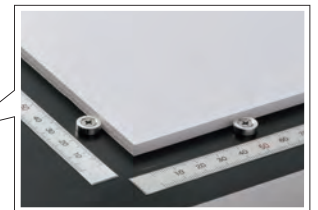
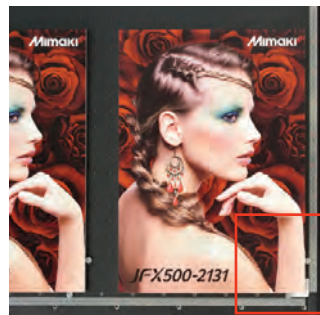
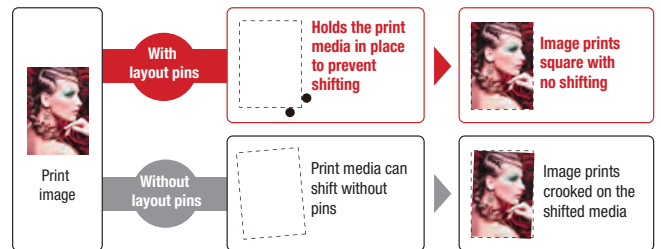
**PR-100 & PR-200** Special undercoat primer UV inks for use on substrates such as glass and metals that may not readily accept UV ink. UV primer is transparent, letting the texture and quality of the substrate through. It can be flood or spot applied.

\*UV inks will not properly cure when printing speed is faster than that of Draft Mode in staggered configuration.

## EASE OF OPERATION

### Flatbed layout pins facilitate exact media positioning.

Users previously had to be extremely diligent in placing media on the flatbed table to ensure proper alignment. The JFX500 printer is equipped with layout pins and a scale designed to help resolve alignment issues. The layout pins square up and secure the print media in place, preventing it from shifting when the flatbed vacuum is engaged. The edge flatbed scale is used to check the positioning of the print media before final printer settings are made.



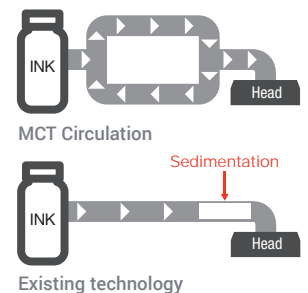
### Vacuum unit is included as standard equipment.

The JFX500 printer comes equipped with a vacuum unit to securely fix the substrates on the flatbed and prevent warping during printing. The vacuum area is divided into 4 zones allowing for maximum vacuum based on substrate size.

## EASE OF MAINTENANCE

### Mimaki Circulation Technology (MCT) for improved white ink imaging.

The settling of white pigment in the ink lines is a common problem when printing with white ink. The JFX500 printer utilizes MCT that eliminates this settling by regularly circulating the white ink. MCT enables stable white ink output from job startup through finish thereby reducing ink waste and downtime to clear settled ink.



### Nozzle Recovery Function enables continuous operation.

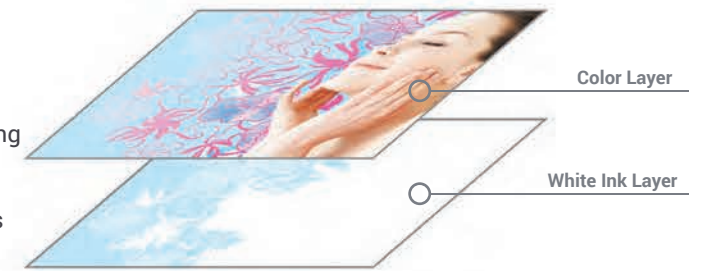
The Nozzle Recovery System (NRS) takes over if for any reason the nozzle fails to clear and the printer experiences nozzle drop out. Rather than stopping, the printing operation can continue by registering with NRS that a particular nozzle has experienced a drop out.

# Extra-large table for extraordinary graphics.

Faster turnarounds and accurate print details are the hallmarks of the **Mimaki JFX500-2131** extra-large flatbed printer. Ideal for all types of rigid signage and displays, it can also help you take your business beyond standard applications with the ability to produce custom wall and fixture décor, unique trim elements, furniture panel embellishments and more. Or take on industrial applications such as membrane switch production or package prototyping. And it's fast. The JFX500 printer can print the equivalent of twenty 4' x 8' boards per hour in CMYK mode, or up to fifteen boards per hour utilizing white ink. All without sacrificing quality, economy or ease of operation.

## SIMULTANEOUS LAYER PRINTING

The JFX500 printer can perform precision printing multiple layers – color & white or white & color – at the same time. This is ideal for transparent substrates that are to be viewed from both sides.



High productivity with either color-over-white for colored substrates, or white-over-color for reverse-viewed items on transparent substrates.



## DIRECT TO MEDIA PRINTING

The JFX500 printer is capable of handling all types of media and substrates including acrylics, glass, foam board, corrugated boards, styrene and plastics, metal – nearly any substrate up to 2" thick.



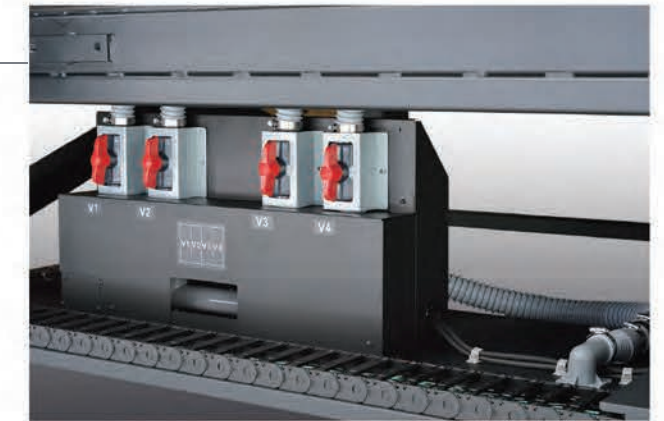
## OPTIMIZED UV-LED CURING UNIT

A high-speed UV curing unit brings all of the advantages of LED technology to the JFX500 printer, such as long life, energy savings, and lower heat generation. This enables printing on media that is easily deformed or discolored by heat.



## ECONOMICAL BULK INK STATION

UV cured printing is an ecological printing method that emits virtually no VOCs. The JFX500 printer utilizes Mimaki's economical ink station that holds two liters of UV ink for each of the 8 ink reservoirs. This bulk Ink station reduces waste and running costs.



## STANDARD 4-ZONE VACUUM UNIT

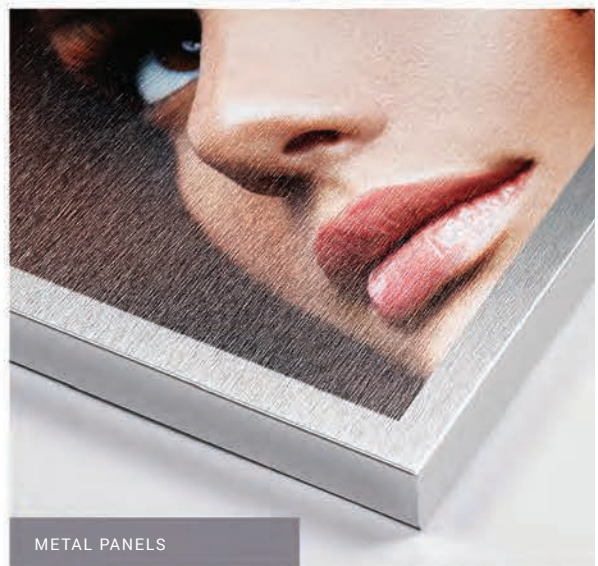
The JFX500 printer is equipped with a standard, 4-zone vacuum unit for accurately securing all types of substrates to the table while printing. Reverse vacuum makes it easy to move bulky and heavy substrates on and off the flatbed.



## Extra-large results.

The capability to print on media and substrates up to 2" thick, along with a generous 6.9' x 10' vacuum controlled bed size, allows for a diverse range of printing options. Instant drying UV inks are durable in both indoor and outdoor conditions and offer a high level of abrasion resistance.

The Mimaki JFX500 printer is ideally suited for applications such as backlit acrylic, corrugated packaging and signage, museum and gallery displays, interior decor, glass, metal and much more.



OUTDOOR SIGNAGE

CORRUGATED PACKAGING

METAL PANELS

RETAIL POSTERS

SIGN BOARDS

# RasterLink6

Intuitive and user-friendly operation



## SOPHISTICATED RIP SOFTWARE MAXIMIZES PERFORMANCE

### Simultaneous layer printing.

RasterLink6 software enables simultaneous multi-layer printing for two-sided viewing – white over/underprinting.

### Powerful Jig Print Function.

Integrated Jig Print Function allows for easy creation of print templates for precise, repeatable piece work jobs.

### Web software update function.

Program updates and profiles can be downloaded via the Mimaki website.

## JFX500-2131 SPECIFICATIONS | INKS

Item	Specifications	
Heads	6 On Demand Piezo heads, staggered configuration	
Resolution	300, 600, 900, 1,200dpi	
Drop Size	7pl - 21pl	
Ink	Type	UV curable ink: LUS-150 (C, M, Y, K, W)
		UV curable ink: LUS-200 (C, M, Y, K, W)
		UV curable ink: LH-100 (C, M, Y, K, W, CI)
	Ink Supply System	Supplied from 2-liter Ink Station
Ink Circulation System <sup>1</sup>	White ink circulation using Mimaki Circulation Technology (MCT)	
Inkjet Primer	PR-100, PR-200	
Media	Max. Dimensions (WxD)	82.7" x 122"
	Max. Height	1.97"
	Max. Weight	10.3 lb. per square foot, non concentrated load
Media Table	6.9' x 10.17' / 82.7" x 122" (70 sq ft)	
Vacuum Area		4 independent zones
Print Accuracy	Absolute Accuracy ±0.3mm or ±0.3% from specified print distance	
Reproducibility	±0.2mm or ±0.1% from specified print distance	
UV Device	UV-LED system	
Standard Service Life <sup>2</sup>	Over 5,000 hours	
Interface	USB2.0	
Safety Standard	VCCI class A, CE Marking, CB Report, UL, RoHS Directive	
Input Power Supply	Single phase AC200~240V 50/60Hz, 20A or less	
Power Consumption	Up to 2.4 kVA	
Operational Environment	Temperature	59°F - 86°F
	Relative humidity	30% - 65% RH
	Dust	Similar to standard office environments
Assembled Dimensions (WxDxH)	161.4" x 175.7" x 58.7"	
Weight	2982.8 lb.	

1 - MCT works only with white ink.

2 - The standard service life times listed are estimates and do not guarantee the operation.

Item	Color	Item No.	Remarks
LUS-150	Cyan	LUS15-C-BA	Volume per bottle: 1 L
	Magenta	LUS15-M-BA	
	Yellow	LUS15-Y-BA	
	Black	LUS15-K-BA	
	White	LUS15-W-BA	
LUS-200	Cyan	LUS20-C-BA	
	Magenta	LUS20-M-BA	
	Yellow	LUS20-Y-BA	
	Black	LUS20-K-BA	
	White	LUS20-W-BA	
LH-100	Cyan	LH100-C-BA	
	Magenta	LH100-M-BA	
	Yellow	LH100-Y-BA	
	Black	LH100-K-BA	
	White	LH100-W-BA	
	Clear	LH100-CL-BA	
Inkjet Primer (PR-100)		PR100-Z-BA	
Inkjet Primer (PR-200)		PR200-Z-BA	
Tungsten replacement needle for ionizer		SPA-0208	4 pcs
Air filter kit		SPA-0209	10 sets
2-liter ink bottle		SPA-0210	1 pc (Empty bottle)



- Ink and inkjet primer are sold in 1-L bottles for direct insertion into the Ink Station.
- The amount of flexibility exhibited by LUS inks may differ depending on the texture of the print media used. Testing substrates for adhesion and durability is recommended.
- Printing with LH-100 may not allow the full speed capabilities of the printer to be utilized.

## OPTIONAL ACCESSORIES

Item	Item No.	Remarks
Ionizer Kit	OPT-J0322	Static eliminator kit
Vacuum Unit (φ 3 mm x 200 mm (φ 0.1 in. x 7.9 in.))	OPT-J0216	Three-phase, 200 V-240 V, 30 A, 3.4 kW
Vacuum Unit (φ 1 mm x 200 mm (φ 0.04 in. x 7.9 in.))	OPT-J0217	Single-phase, 200 V-240 V, 30 A, 1.9 kW
Vacuum Unit (φ 3 mm x 400 mm (φ 0.1 in. x 15.7 in.))	OPT-J0232	Three-phase, 380 V-480 V, 20 A, 3.4 kW
Optional Blower Connector Kit	OPT-J0330	

• Additional power source is require to use the Vacuum Unit.

Note: UV inks will not properly cure when printing speed is faster than that of Draft Mode.

Inkjet printers print using extremely fine dots, so colors may vary slightly after replacement of the printing heads. Also note that if using multiple printer units, colors could vary slightly from one unit to another due to slight individual differences.

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