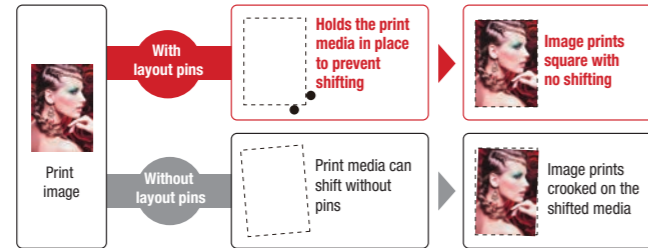# JFX500 features-at-a-glance

- Print resolutions up to 1200 dpi
- Print speeds up to 645 sqft/hr in CMYK
- Economical 2-liter, 8 reservoir Ink Station
- UV-LED curing with CMYK plus white and clear – 2 ink sets plus primer available
- Equipped with Mimaki's Intelligent Microstepping System for extremely accurate imaging
- Maximum media size: 6.8' 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.

Conventional imaging   Using MAPS2 technology

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.

M C Y K W Lc Lm

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.

M C Y K W Cl

PR-100 A special undercoat primer UV ink 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.

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.
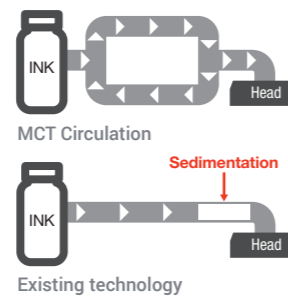

| Print image | With layout pins | Holds the print media in place to prevent shifting | Image prints square with no shifting |
| | Without layout pins | Print media can shift without pins | Image prints crooked on the shifted media |

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 vertically divided into 4 zones that can be separately activated.

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.

MCT Circulation

Existing technology

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.

Intuitive and user-friendly operation

SOPHISTICATED RIP SOFTWARE MAXIMIZES PERFORMANCE

Simultaneous layer printing.

RasterLink6 software enables simultaneous three-layer printing for two-sided viewing – color > white > color, or for white over/underprinting.

Simplified RIP operations.

The "Register as Favorite" feature saves regularly used RIP layouts and operations in a single window for quick retrieval.

Web software update function.

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

JFX500-2131 SPECIFICATIONS | INKS

Item		Specifications
Head		On-demand Piezo head (6 print heads with 3 staggered configuration)
Resolution		300, 600, 900, 1,200dpi
Ink	Type	UV curable ink: LUS-150 (C, M, Y, K, W, Lc, Lm)
		UV curable ink: LH-100 (C, M, Y, K, W, Cl)
	Ink Supply System	Supplied from 2-liter Ink Station
	Ink Circulation System[1]	White ink circulation using Mimaki Circulation Technology (MCT)
Inkjet Primer		PR-100
Maximum Diagram Dimensions (W×D)		82.7" × 122"
Media	Max. Dimensions (W×D)	82.7" × 122"
	Max. Height	2"
	Max. Weight	10.3 lb. per square foot, non concentrated load
Media Table		Air suction by vacuum
	Vacuum Area	Vertically divided into 4 zones
Print Accuracy	Absolute Accuracy	±0.01 in. or ±0.3% from specified print distance
	Reproducibility	±0.01 in. or ±0.1% from specified print distance
UV Device		UV-LED system
	Standard Service Life[2]	Over 5,000 hours
Interface		USB2.0
Safety Standard		VCCI class A, CE Marking, CB Report, UL, RoHS Directive
Input Power Supply		Single phase, 200 V AC-240 V AC, 50 Hz/60 Hz
Power Consumption		Up to 2.4 kVA
Operational Environment	Temperature	59°F - 86°F
	Relative humidity	35% - 65% RH
	Temperature accuracy	64.4°F - 77°F
	Temperature gradient	Up to ±18°F/h
	Dust	Similar to standard office environments
Install Dimensions (W×D×H)		
Assembled Dimensions (W×D×H)		161.4" × 175.7" × 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	
	Lt Cyan	LUS15-LC-BA	
	Lt Magenta	LUS15-LM-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)		TBD	
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)

GREENGUARD
- Ink and inkjet primer are sold in 1-L bottles for direct insertion into the Ink Station.
- The amount of flexibility exhibited by LUS-150 ink may differ depending on the texture of the print media used. Try out the ink on a test page before proceeding with a full print job.
- 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 × 200 mm (φ 0.1 in. × 7.9 in.))	OPT-J0216	Three-phase, 200 V-240 V, 30 A, 3.4 kW
Vacuum Unit (φ 1 mm × 200 mm (φ 0.04 in. × 7.9 in.))	OPT-J0217	Single-phase, 200 V-240 V, 30 A, 1.9 kW
Vacuum Unit (φ 3 mm × 400 mm (φ 0.1 in. × 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.
- Each Vacuum Unit requires "Option Blower Connection Kit (OPT-J0330)" in order to connect to the JFX500-2131.

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.
Some of the samples in this brochure are artificial renderings. Specifications, design and dimensions stated may be subject to change without notice (for technical improvements, etc.).
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JFX500

Mimaki JFX500-2131 Flatbed Printer

High speed, extra-large flatbed printer for all types of rigid media, signage and displays
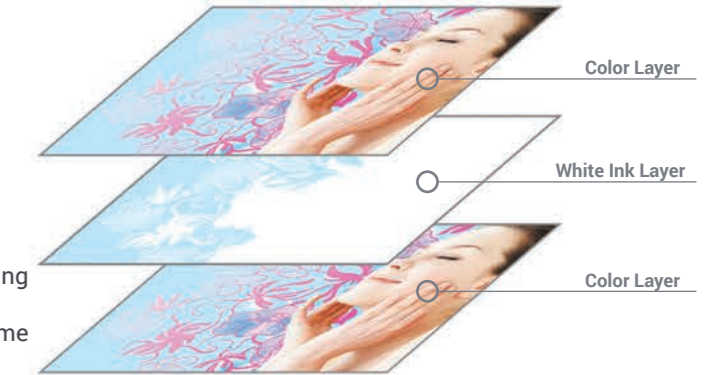
Extra-large table for extraordinary graphics.

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 turn out up to twenty 4' x 8' boards an hour in CMYK mode, and up to fifteen boards an hour utilizing white ink. All without sacrificing quality, economy and ease of operation.

SIMULTANEOUS LAYER PRINTING

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

Color Layer
White Ink Layer
Color Layer

The printer can also print either color-over-white for colored substrates, or white-over-color for reverse-viewed items on transparent substrates.

Extra-large results.

The capability to print on media and substrates up to 2" thick, along with a generous 5' 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

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.
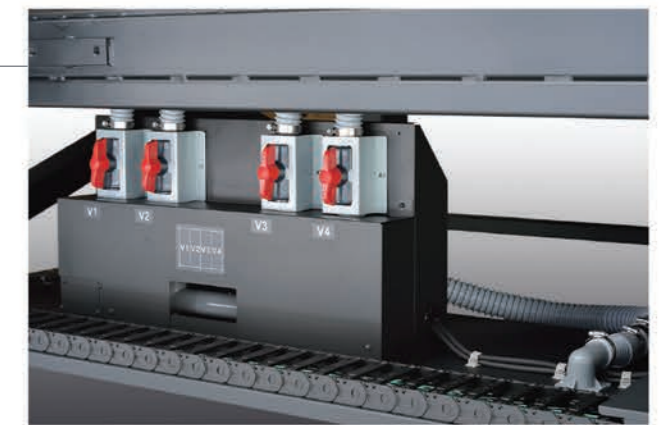
OPTIMIZED UV-LED CURING UNIT

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 hold 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.

JFX500-2131