Supports operability and the fineness of print-outs

RIP Software (Provided as standard)

Raster Link 7 *New!*

Average 25% increase in RIP processing speed

Raster Link 7

PDF → **Print Start**

Raster Link 6 PLUS ← 25% time reduction

PDF → **Print Start**

Automation of printing processes

▌Adaptable to "Mimaki Device Language (MDL)" to realize automation of printing processes

Using MDL commands allows you to automate printer control, job management, and workpiece conveying device operation from an external device

Start/End print Error/Warning

Pre-/Post-processing device

Printer — Ethernet connection — PLC — Automatic conveying devices
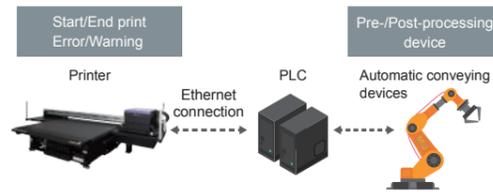
*When using MDL commands, refer to the separate MDL commands manual included in the SDK.
*Please note that machine failures due to MDL commands may not be covered by our warranty.

Safety devices to prevent trouble

Work status indicator light

Intrusion prevention sensor for the operating area

Media jam sensor

▌Specifications

Item		JFX600-2513
Head		On-demand piezo head
		16 printheads arranged in 4 staggered lines for 4 heads
Print resolution		600 dpi, 1200 dpi
Ink	Type	Hard UV-curable ink LH-100
		Flexible UV-curable ink LUS-120/LUS-150*1
	Supply system	1 liter bottle for each ink
	Ink circulation system	White ink circulation using MCT (Mimaki Circulation Technology)*2
Maximum printable area (W × D)		2,500 × 1,300 mm
Media	Size (W × D)	Up to 2,500 × 1,300 mm
	Height	60 mm or less
	Weight	50 kg/m² or less
Media absorption		Blower absorption type + foot switch
Absorbing area division number		Divided into 2 (X direction)
UV unit		LED-UV system
Interface		Ethernet 10GBASE-T
Certifications		CE Mark (EMC Directive, Machinery Directive), UL775, RoHS, EAC, UKCA
Power supply		(200-240VAC ±10% 50/60Hz ±1Hz, 24A) × 3
Power consumption		INLET1-3, each INLET: 4,800W or less
Operation environment	Temperature	20°C to 30°C
	Humidity	35 to 65% RH (No condensation)
	Guaranteed accuracy temperature	20°C to 25°C
	Temperature gradient	±10°C/h or less
	Dust level	0.15mg/m³ (Equivalent to a general office floor level)
External dimensions (W × D × H)		Approx. 5,300 × 2,850 × 1,700 mm or less
Weight		1,100 kg or less

*1: The stretchability of flexible ink varies depending on the printing material. Please be sure to do a test print beforehand.
*2: MCT works only with white ink.

▌Installation space

1,000mm or more
1,000mm or more
1,000mm or more
1,000mm or more
4,850mm or more
7,400mm or more

▌Supplies

Item	Color	Item No.	Remark
LH-100 GREENGUARD Gold certified ink	Cyan	LH100-C-BA	1L bottle
	Magenta	LH100-M-BA	
	Yellow	LH100-Y-BA	
	Black	LH100-K-BA	
	Light Cyan	LH100-LC-BA	
	Light Magenta	LH100-LM-BA	
	White	LH100-W-BA	
	Clear	LH100-CL-BA	
LUS-120 GREENGUARD Gold certified ink	Cyan	LUS12-C-BA	1L bottle
	Magenta	LUS12-M-BA	
	Yellow	LUS12-Y-BA	
	Black	LUS12-K-BA	
	Light Cyan	LUS12-LC-BA	
	Light Magenta	LUS12-LM-BA	
	White	LUS12-W-BA	
	Clear	LUS12-CL-BA	
LUS-150* GREENGUARD Gold certified ink	Cyan	LUS15-C-BA	1L bottle
	Magenta	LUS15-M-BA	
	Yellow	LUS15-Y-BA	
	Black	LUS15-K-BA	
	Light Cyan	LUS15-LC-BA	
	Light Magenta	LUS15-LM-BA	
	White	LUS15-W-BA	
Primer		PR-200 PR200-Z-BA	1L bottle

*: If you use CL in the LUS-150 ink set, please use the CL of LH100.

⚠ **Inks and substrates:**
• As physical properties of ink (adhesion, weather resistance etc.) are different depending on media, please be sure to have a print test in advance.
• Depending on the application, primers, other surface treatment or surface protection such as lamination may be necessary.

⚠ **Safety notice:**
This product is equipped with UV irradiation equipment.
Please pay attention to the following notes in order to use safely.
• 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, some VOC emittance from printed parts not yet cured and hardened may occur.
• In addition, please be sure to read and follow the instructions and guidelines of the manual carefully.

LED UV

Mimaki *Green Technology*

GREENGUARD

JFX600-2513

Maximum print speed 200 m²/h*1
Equipped with 6 color inks

High speed and High quality

With a maximum print speed of 200 m²/h and 6-color ink printing, this printer is specially designed for high speed and high quality printing required for large format graphics printers, featuring three types of high-performance UV ink to choose from, a 4' × 8' size table (the most common size in the sign industry), MPC (touch-screen monitor connected to the printer), and safety devices. In addition, a printer control interface is provided for the operation automation.

*1: For JFX600-2513 at Draft mode, 4C, 600×600 dpi, 2P printing
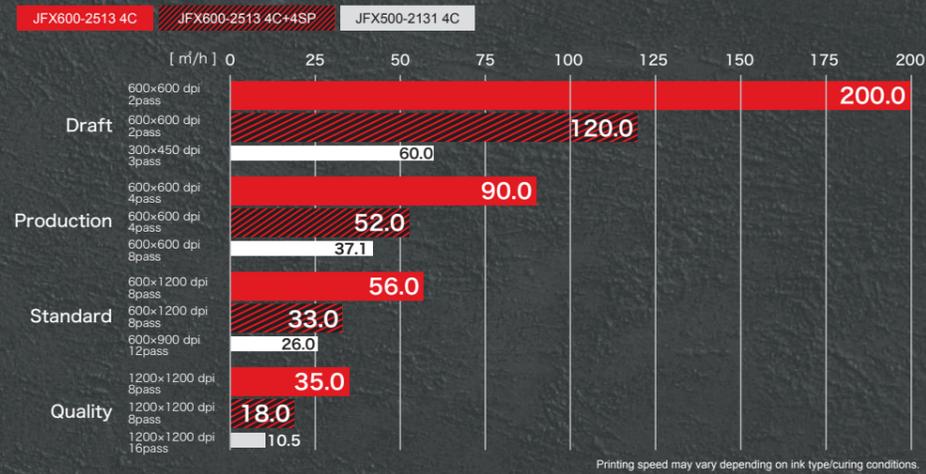
Amazingly high productivity

Compared with the equivalent image quality print mode

Up to Max. 330% UP

Max. 330%*2 faster than the previous model (JFX500-2131) by installing significantly more printheads. The great increase in productivity allows for quick delivery of large format prints.

*2: Comparison between JFX600-2513 in Draft mode/4C/600×600 dpi/2P and JFX500-2131 in Draft mode/4C/300×450 dpi/3P

Speed comparison in the equivalent image quality, when printing at 4C / 1 layer

Legend: JFX600-2513 4C | JFX600-2513 4C+4SP | JFX500-2131 4C

[m²/h] scale 0 25 50 75 100 125 150 175 200

Mode	dpi / pass	Value
Draft	600×600 dpi 2pass	200.0
Draft	600×600 dpi 2pass	120.0
Draft	300×450 dpi 3pass	60.0
Production	600×600 dpi 4pass	90.0
Production	600×600 dpi 4pass	52.0
Production	600×600 dpi 8pass	37.1
Standard	600×1200 dpi 8pass	56.0
Standard	600×1200 dpi 8pass	33.0
Standard	600×900 dpi 12pass	26.0
Quality	1200×1200 dpi 8pass	35.0
Quality	1200×1200 dpi 8pass	18.0
Quality	1200×1200 dpi 16pass	10.5

Printing speed may vary depending on ink type/curing conditions.

Six colors, including light colors, are supported *New!*

Six colors, including Lc and Lm, are available for rich color expression. There are a wide variety of ink types to choose from to suit your application. Every ink has gained the "GREENGUARD Gold" certification by meeting VOC*5 emissions requirements, the most stringent standard in the world, from UL, a U.S. third-party safety science organization, and is recognized for its environmental safety.

Ink color sets — LH-100, LUS-120, LUS-150*3

CCMMYYKK
Four-color ink set for high productivity, achieving a fast print speed of 200 m²/h

CMYKLcLmWW
Add light colors for smooth gradations, natural skin tones, and vivid photo reproduction*4

CMYKWWCIPr
Use clear ink for gloss/matte finishes, embossing, and 2.5D print creating semi-stereoscopic surfaces, and primer for stronger adhesion between ink and material

Type	Hard UV ink	Flexible UV ink	
Product	LH-100	LUS-120	LUS-150
Features	The LH-100 ink has a high scratch/chemical resistance and an accurate color reproducibility. The ink is suitable for rigid materials.	The LUS-120 ink has 170% stretchability after curing. Its ink film is very flexible and will not crack during post process.	The LUS-150 ink has 150% stretchability after curing and will not crack during post print process. This ink is compatible with a wide range of materials and has a low degree of tackiness.

*3: LH-100 and LUS-120 are to be supported later
*4: Light colors are to be supported later
*5: VOC = Volatile organic compound

Mimaki's image quality control technology ensures more beautiful prints

Waveform control

Thanks to Mimaki's unique advanced ink droplet ejection control, droplets with high circularity can be ejected to make them accurately land on the media. This enables sharp expression of text, ruled lines, and edges.

<Droplets ejected with low circularity>
Spaced or overlapping dots make image quality rough and edges blurred.
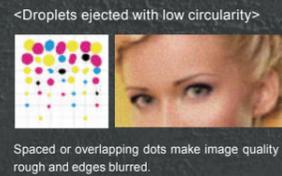
<Droplets ejected with high circularity>
Droplets can be placed with high precision. It provides a sharp print finish with less graininess.

### MAPS4 (Mimaki Advanced Pass System 4)

Banding (horizontal stripes), uneven color, and glossy streaks can be reduced to realize smooth prints by printing pass boundaries fading in gradation.

<Without MAPS4> *Image
<With MAPS4> *Image
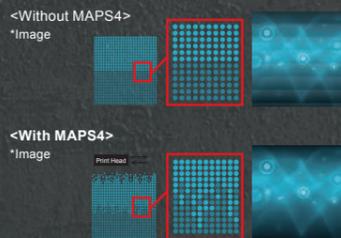
Based on printing conditions such as media/ink type and resolution, the most suitable gradation pattern is automatically selected and printed.

Variable dots

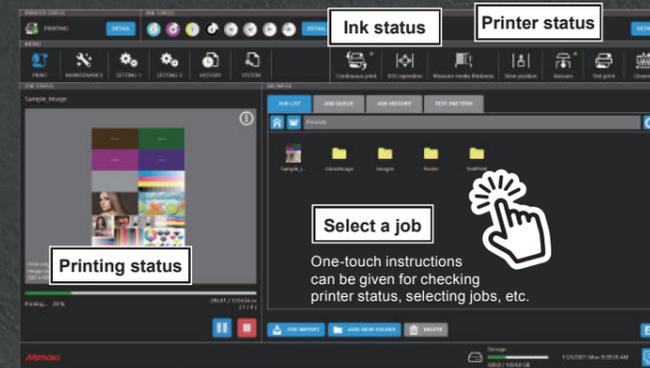Three different ink dot sizes are used to enable high-quality prints with reduced graininess.

<Normal dots>
<Variable dots>
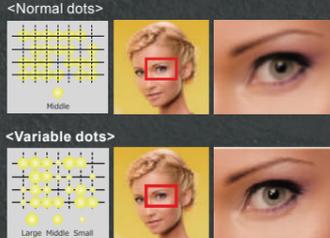
Combination of dots including the minimum size of 7pl enables grainless, smooth color printing.

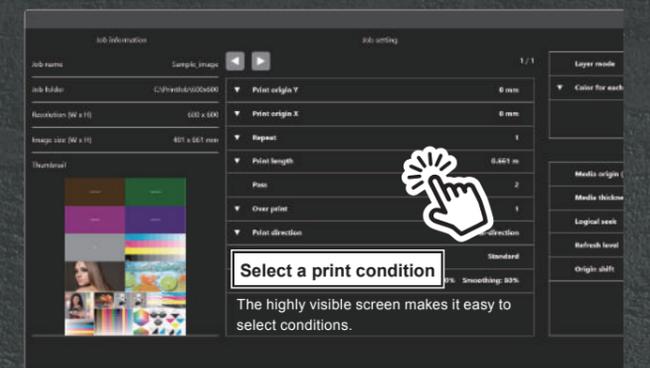## MPC using a graphical user interface *New!*

MPC (Mimaki Printer Controller)

It is a new software used for operation in the touch screen monitor connected to the printer. All operations are visually organized by item and can be performed on the MPC screen, including setting print conditions, checking work/printer status and work history, and checking maintenance instructions.

Job management status

Ink status | Printer status | Printing status | Select a job

One-touch instructions can be given for checking printer status, selecting jobs, etc.

Printing conditions management status

Select a print condition

The highly visible screen makes it easy to select conditions.

Designed with usability in mind

Table size & Vacuum table *New!*

The table size of 2,500 × 1,300 mm nicely fits commonly used 4' × 8' media.
The vacuum area to hold media is divided into two sections in the X direction of the table, and can be adjusted to the media size you use by opening/closing valves. Besides the operation panel, a foot switch can be used to turn the vacuum on and off.
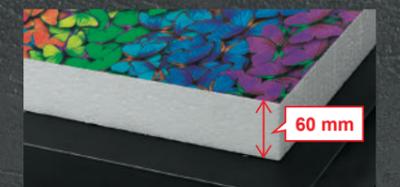
The vacuum area can be split

525mm	Vacuum 2
775mm	Vacuum 1

1,300mm X direction
2,500mm Y direction
Foot switch
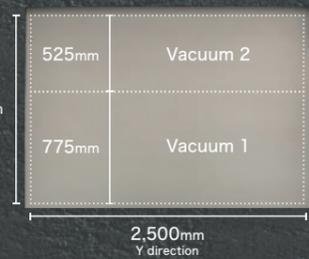
### Supporting media as thick as 60 mm *New!*

Direct printing on media as thick as 60 mm allows you to expand the range of materials.

60 mm

## Reliable functions for stable operation

NCU (Nozzle Check Unit)

The sensor automatically detects the nozzle condition. When the NCU detects a missing nozzle, it automatically performs cleaning to solve the problem.

Print head
Ink emission is determined to be defective by case of light permeation.
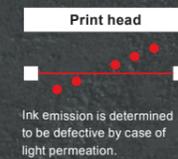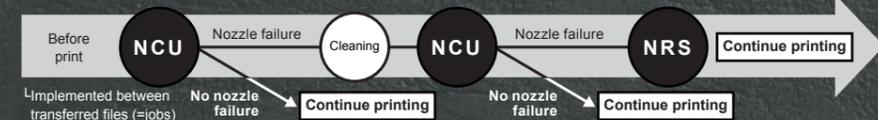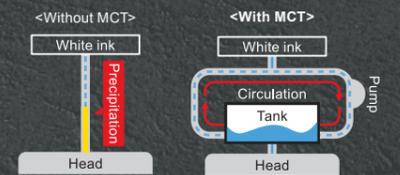
NRS (Nozzle Recovery System)

If there is a nozzle problem that cannot be solved by cleaning, it automatically replaces the defective nozzle with an alternate one for each nozzle, which enables continuous printing without lowering printing speed.

The system is automatically controlled based on the information provided by the NCU. NRS may be unusable in some print modes.

A defective nozzle that emits no ink is substituted with an alternate nozzle.
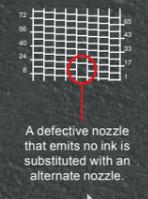
MCT (Mimaki Circulation Technology)

An ink circulation mechanism is provided in the ink tank and ink path. It circulates white ink periodically to prevent nozzle trouble due to deposited ink pigments and to stabilize printing performance.

<Without MCT> White ink — Precipitation — Head
<With MCT> White ink — Circulation Tank — Pump — Head

Flow diagram: Before print → Implemented between transferred files (=jobs) → NCU → Nozzle failure / No nozzle failure → Cleaning → Continue printing → NCU → Nozzle failure / No nozzle failure → NRS → Continue printing

Variable expression to add more value to prints

2.5D Texture Maker

Multi-layered gradation data can be created by "2.5D Texture Maker", a function of the bundled RIP "RasterLink7".* Smooth expression of bumpy textures can be achieved using multiple layers of UV ink.
This allows you to create realistic and eye-catching graphics.

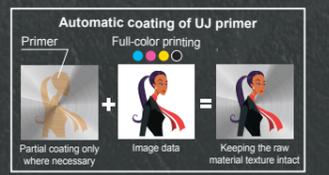*: Illustrator or Photoshop is required.

White ink and clear ink

Printing together with high-concentration white ink as the base color on transparent or deep-color media makes full-color images more vivid. Clear ink printing enhances decorative effects such as mat, gloss and texture.

When white ink used as basic color | When white ink not used as basic color

Inkjet primer

A primer that enhances ink adhesion to glass, metal, or surface-treated material. Because primer coating simultaneously with color printing is possible, the primer can be placed only on those portions requiring it. Placing primer only where it is required without manual work is possible, making the most of the texture of raw material and realizing beautiful finishes.

Automatic coating of UJ primer
Primer — Full-color printing
Partial coating only where necessary + Image data = Keeping the raw material texture intact
Partial coating only | Image data | Keeping the raw material texture intact