

## Print Sample



3D embossed printing



Full color name plate



Name plate (Etching)



Card



Membrane switch



Photo album



Welcome sign



Personalized gifts and promotional items

For  
**INDUSTRIAL  
DESIGN**

High-Performance  
Flatbed UV Inkjet Printer

# UJF-7151 plus

# Mimaki



## High Quality High Performance

Astonishingly high-quality  
and  
high-accuracy printing



### Specifications

Printhead	On-demand piezo head	
Print resolution	600x600dpi, 600x900dpi, 1,200x1,200dpi	
Ink	Type	UV curable ink: LH-100 / LUS-120*
	Package size	1L bottle
	Ink circulation function	Ink is circulated in the head and ink channel.
Maximum printable area		510 x 710 mm (20 x 28 in)
Media	Size(WxDxH)	730 x 530 x 153 mm (28.7 x 20.9 x 6 in)
	Weight	10 kg (22 lb or less)
Media (object) holding method	Vacuum table	
Lifting/Lowering range of table	153 mm (6 in)	
Interface	USB2.0 / Ethernet	
Certifications	*VCCI class A, FCC class A, ETL, UL 60950-1CE Marking (EMC, Low voltage, Machinery directive, and RoHS), CB, REACH*	
Power supply	Single-phase AC 100 - 240V, 50 / 60 Hz	
Power consumption	1,300 VA or less	
Operational environment	Temperature	15 ~ 30°C
	Humidity	35 ~ 85 %RH
	Recommended temperature range for stable operation	20 ~ 25°C
	Allowable range of temperature change	±10°C/h or less
Dust level	Equivalent to a general office floor level	
Dimensions (WxDH)	2,193 x 1,572 x 1,273 mm (86.3 x 61.9 x 50.1 in)	
Weight	317 kg (699 lb) Base stand weight is included	
RIP software	RasterLink6 (Standard feature)	

\* LUS-120 ink will be compatible in the future.

### Supplies

Item	Item No.	Quantity	Note
LH-100	Cyan	LH100-C-BA	1L bottle
	Magenta	LH100-M-BA	
	Yellow	LH100-Y-BA	
	Black	LH100-K-BA	
	White	LH100-W-BA	
Clear	LH100-CL-BA		
UV primer	PR200-Z-BA	1L bottle	
Flushing liquid 07	FL007-Z-BA	1L bottle	
Bottle tightening jig kit	SPA-0232	1	
Wiper nozzle	SPA-0274	1	
Waste ink tank	SPA-0277	1	
UV cleaning swab	SPC-0386	10	For head maintenance
UV safety goggles	SPC-0387	1	
Anti freezing liquid	SPC-0394	1,000mlx2	For LED-UV unit
Nozzle swab	SPC-0421	100	Nozzle maintenance liquid
KIM towel	SPC-0499	50	For flushing maintenance
UV primer GM-1	SPC-0541	500ml	Primer for metal and glass
Washing Liquid 100	SPC-0568	100ml	Maintenance liquid
Cleaning kit	SPC-0569	1	UV cleaning swab (10), KIM towel (10), Gloves, washing liquid (100ml x 2), Dropper, Clean stick (10)
Maintenance cloth	SPC-0574	150	For head maintenance
Anti freeze liquid 300ml	SPC-0783	1,000ml 1	For LED-UV unit
Mist absorption filter	SPC-0795	10	
LED-UV unit filter	SPC-0796	4	

### Options

Mimaki Target Color Emulator	SCE-001	Color emulation software and colorimeter
Mimaki Profile Master II ProSet	SPM-005	Color management software and colorimeter

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### Mimaki Global Network

USA	MIMAKI USA, INC.	Europe	MIMAKI EUROPE B.V.
Brazil	MIMAKI BRASIL COMERCIO E IMPORTACAO LTDA	Indonesia	PT. MIMAKI INDONESIA
India	MIMAKI INDIA PRIVATE LIMITED	Australia	MIMAKI AUSTRALIA PTY. LTD.
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Singapore	MIMAKI SINGAPORE PTE. LTD.		

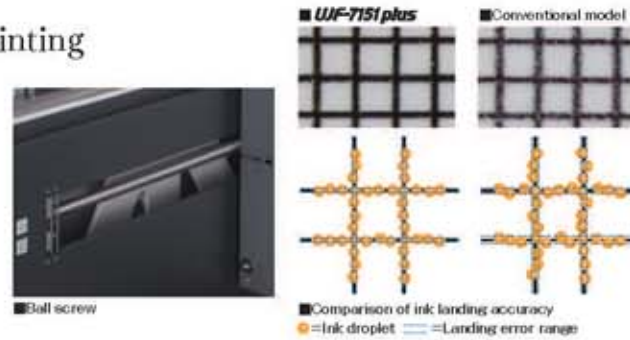
# High Quality High Performance

Astonishingly high-quality and high-accuracy printing



## Mechanical structure achieves high-precision printing

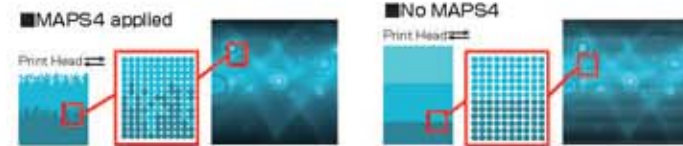
To reduce printer unit vibration, the print table moves during printing instead of the Y-bar. In addition, to achieve higher position accuracy, two ball screws are installed on both sides of the table to assist with its movement. UJF-7151 plus offers high-performance printing that satisfies the position accuracy necessary for additional printing on preprinted surfaces. Furthermore, fine lines, edges, and small texts are clearly represented. UJF-7151 plus is the best digital on-demand printing solution for the screen printing industry.



## Mimaki's print technologies for achieving beautiful printing

### Mimaki Advanced Pass System 4 (MAPS4)

Generally, swath boundaries are straight lines. Therefore, a slight misalignment between boundaries causes banding or uneven color printing. MAPS4 reduces banding and uneven color printing with blurred boundaries, similar to gradation printing.



### Mimaki Fine Diffusion 1 (MFD1)

Bundled 'RasterLink6'(\*1) RIP software contains MFD1(\*2), an image noise reduction function. MFD1 reduces the noise that is generated in image data during image processing and enables the production of better print results without tone jumps or uneven colors.

\*1: MFD is available for Version 4.0 and higher. \*2: Patent number: 5230816

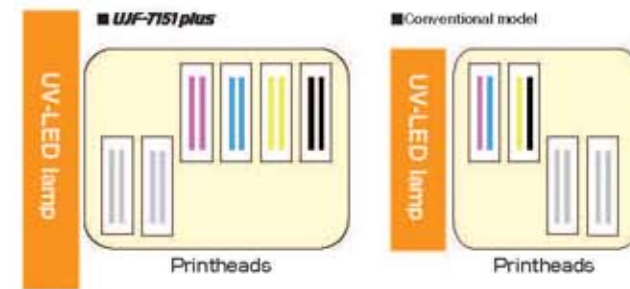
### Variable dot printing

Optimum droplet sizes are automatically selected from 6 pl to 30 pl for each print mode. Moreover, UJF7151 plus can separately control droplet sizes for process color (CMYK) and spot color. This capability is useful for simultaneous double-layer printing. Small droplets are used for color printing to present a delicate finish, and large droplets are used for white-base-layer printing to obtain high opacity.



## Beautiful, sharp, and clear ink finish enhances the design.

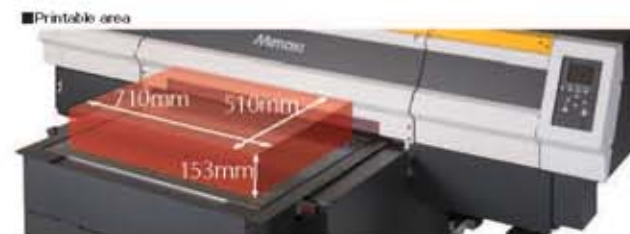
Because of its advanced UV-LED lamp unit, UJF-7151 plus can simultaneously print and cure clear ink. This curing method reduces air bubbles/dust on the print surface and enhances the glossiness and sharpness of clear ink prints. Highly distinct glossy printing is suitable for representing elaborate designs.



## Maximum 4.21 m<sup>2</sup>/h<sup>(\*)3</sup> productivity

Six printheads are arranged in a staggered line to improve printing speed. The speed is approximately 1.8 times faster than that of our conventional model (\*4).

The printable area expands to 710 × 510 mm (28 × 20 in), enabling the printing of size 636 × 469 mm (25 × 18.5 in), which is often used for screen printing.



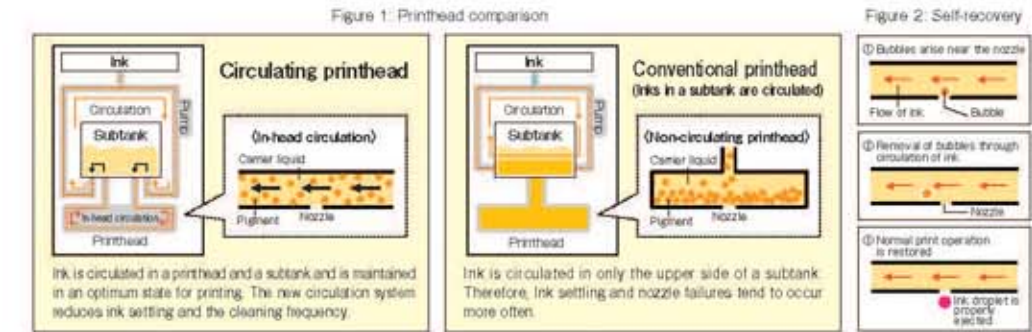
\*3: 600 × 600 dpi / 6-Pass  
\*4: Speed comparison between UJF-7151 plus and UJF-6042

## Reliable operating support package

Ink and media shortage, clogged nozzles, and other minor problems influence stable productivity. The UJF-7151 plus fully supports continuous printing with reliable technologies.

### A new printhead ink-circulation system reduces nozzle failures.

The ink-circulation system in the head reduces ink settling and thus provides stable ink jetting (FIG. 1). In addition, this system removes air bubbles, which lead to nozzle failure (FIG. 2). Because of this function, the nozzle-cleaning frequency is reduced, and accordingly, cost-effective stable printing is achieved.

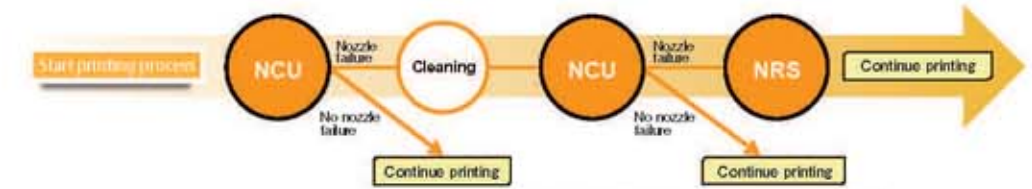


### Nozzle Check Unit (NCU) automatically detects and recovers clogged nozzles

Clogged nozzles are detected automatically by sensors that monitor ink droplet. When clogged nozzles are detected, they are automatically cleaned, reducing waste printing. Nozzles are checked per transfer file.

### Nozzle Recover System (NRS) for maintaining productivity

If the defective nozzles are not recovered after being cleaned through the NCU function, the NRS selects substitute nozzles and then restarts printing. This feature is a significant novelty because, previously, when nozzle cleaning failed, the printhead required repair by a technician, the printing operation therefore ceased until the printhead was repaired. The NRS\* allows the printer to continue printing without interruption by substituting non-defective nozzles for defective nozzles until the technician arrives.



\*5: NRS may not be activated depending on print modes.

### [Print speed]

Print mode	Resolution	Number of passes	Print speed (m <sup>2</sup> /h)	Print time per print table
Draft	600x600	6	4.21	5 m 10 s
		8	3.14	6 m 55 s
High speed	600x900	10	2.56	8 m 30 s
		12	2.12	10 m 15 s
Standard	1200x1200	16	1.57	13 m 50 s
		12	1.53	14 m 10 s
High quality		16	1.16	18 m 40 s

Print speed: Measured speeds are common for single layer printing (color or spot color single layer) and double layer printing (color + spot color). Refresh level: 0.

### Mimaki Bulk Ink System 3 (MBIS3)



One-liter ink bottles can be directly installed on MBIS3, an ink supply unit. Large ink quantities reduce the frequency of ink replacement and ink costs.

### [Compatible ink]



\*6: Pr implies a primer (PR-200).