

# Print Sample



3D lenticular printing



Full color name plate



Seat name card



Card



Mock-up



Molded face sign



Welcome sign



Personalized gifts and promotional items

For  
**INDUSTRIAL  
DESIGN**



High-Performance  
Flatbed UV Inkjet Printer

# UJF-7151 plus



## Specifications

Printhead	On-demand piezo head	
Print resolution	600x600dpi, 600x900dpi, 1,200x1,200dpi	
Ink	Type	UV curable ink: LH-100 / LUS-120 / LUS-350 / MUH-100-Si Primer: PR-200
	Package size	200ml bottle (MUH-100-Si) 250ml bottle (LH-100, LUS-120, PR-200) 1L bottle (LH-100, LUS-120, LUS-350, PR-200)
	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 degC (59 - 86 degF)
	Humidity	35 ~ 65 %Rh
	Recommended temperature range for stable operation	20 - 25 degC (68 - 77 degF)
	Allowable range of temperature change	±10°C/h or less
Dust level	Equivalent to a general office floor level	
Dimensions (WxD H)	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)	

## Options

OP Ionizer	OPT-J0406	To remove charged static electricity of media This is necessary while metallic printing.
Metallic Ink Kit	OPT-J0493	
Mimaki Target Color Emulator	SCE-001	Color emulation software and colorimeter
Mimaki Profile Master 3	SPM-007	Color management software

● Some of sample images in this catalogue are artificial renderings. ● Specifications, design and dimensions stated in this catalogue may be subject to change without notice for technical improvements etc. ● The corporate names and merchandise names written in this catalogue are the trademark or registered trademark of the respective corporations. ● Inkjet printers print using extremely fine dots, so colors may vary slightly after replacement of print heads. ● Also note that if using multiple printer units, colors could vary slightly from one unit to other(s) due to slight individual differences. ● Please note that descriptions and data in this catalogue are as of January 2019 and subject to change.

## Inks and substrates:

- Please note that properties and adhesion, weather resistance etc. of ink and substrates can vary. Therefore please test materials before printing.
- Some substrates require primer before printing. Please test materials beforehand or ask your sales representative.

## Supplies

Item	Item No.	Quantity	Note
LH-100	Cyan LH100-C-BA	1L bottle	"GREENGUARD Gold" Certification Ink
	Magenta LH100-M-BA		
	Yellow LH100-Y-BA		
	Black LH100-K-BA		
	White LH100-W-BA		
LH-100	Clear LH100-CL-BA	250ml bottle	"GREENGUARD Gold" Certification Ink
	Cyan LH100-C-B2		
	Magenta LH100-M-B2		
	Yellow LH100-Y-B2		
	Black LH100-K-B2		
LUS-120	White LH100-W-B2	1L bottle	"GREENGUARD Gold" Certification Ink
	Clear LH100-CL-B2		
	Cyan LUS12-C-BA		
	Magenta LUS12-M-BA		
	Yellow LUS12-Y-BA		
LUS-120	Black LUS12-K-BA	250ml bottle	"GREENGUARD Gold" Certification Ink
	White LUS12-W-BA		
	Clear LUS12-CL-BA		
	Cyan LUS12-C-B2		
	Magenta LUS12-M-B2		
LUS-350	Yellow LUS12-Y-B2	1L bottle	"GREENGUARD Gold" Certification Ink
	Black LUS12-K-B2		
	White LUS12-W-B2		
	Clear LUS12-CL-B2		
	Cyan LUS35-C-BA		
MUH-100-Si	Magenta LUS35-M-BA	1L bottle	"GREENGUARD Gold" Certification Ink
	Yellow LUS35-Y-BA		
	Black LUS35-K-BA		
	White LUS35-W-BA		
	Clear LUS35-CL-BA		
UV Metallic ink	MUH-10-Si	1 bottle	UV Metallic ink 200ml bottle
UJ Primer PR-200	PR200-Z-BA	1L bottle	
	PR200-Z-B2	250ml 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	
UJ 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	UJ 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 mixed water 35WT%L	SPC-0783	1,000ml 1	For LED-UV unit
Mist absorption filter	SPC-0816	10	
LED-UV unit filter	SPC-0817	4	

## Safety notice:

- The UV radiation producing device is installed to this product. To protect your health, please follow below guidelines strictly:
- 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, there might occur some VOC emission from printed parts not yet cured and hardened.
  - In addition, please read the instructions and guidelines of the manual carefully and follow those.

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Metallic Ink !



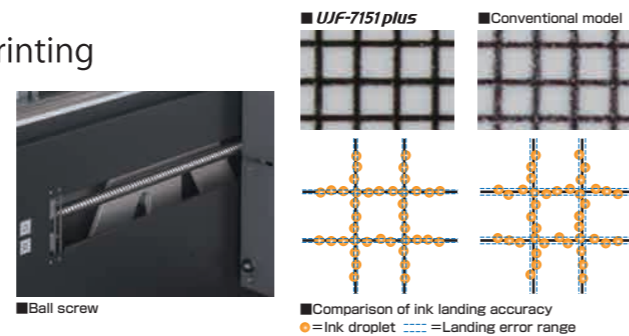
# High Quality High Performance



Astonishingly high-quality and high-accuracy printing

## Mechanical structure achieves high-precision printing

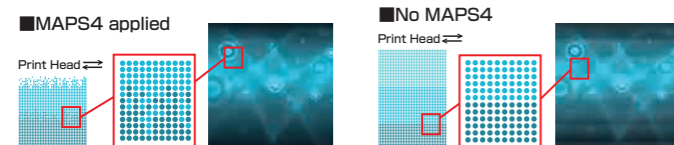
To reduce printer unit vibration, the print table moves during printing instead of the Y-bar. In addition, to achieve higher position accuracy, two ball screws are installed on both sides of the table to assist with its movement. UJF-7151 plus offers high-performance printing that satisfies the position 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.



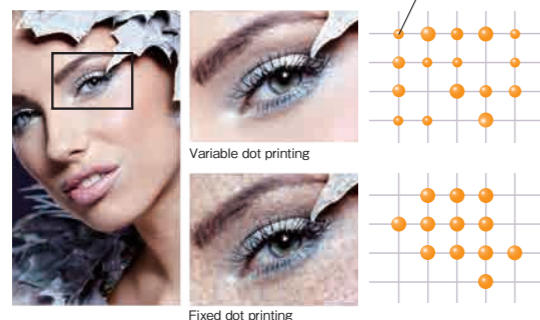
### ©Mimaki Fine Diffusion 1 (MFD1)

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.

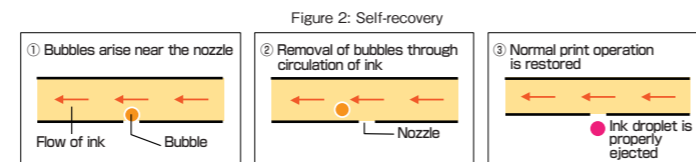
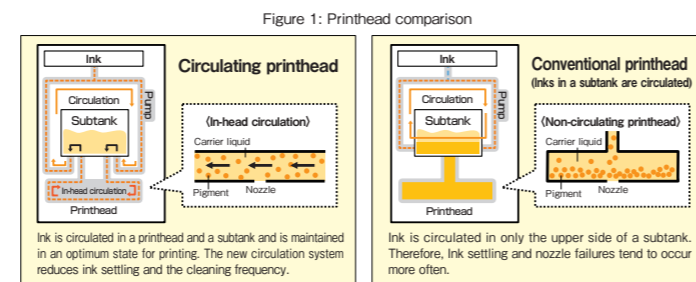


## Reliable operating support package

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.

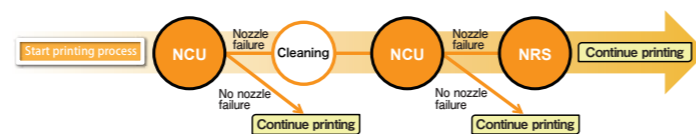


### ©Nozzle Check Unit (NCU) automatically detects and recovers clogged nozzles

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(\*3) allows the printer to continue printing without interruption by substituting non-defective nozzles for defective nozzles until the technician arrives.



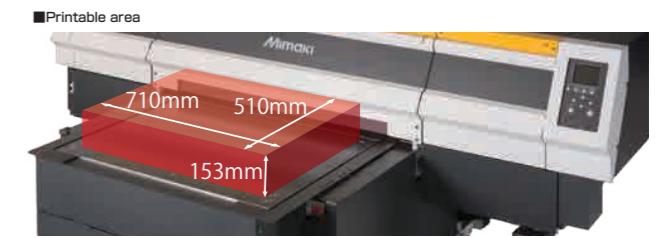
\*3: NRS may not be activated depending on print modes.

Print mode	Resolution	Number of passes	Print speed (m <sup>2</sup> /h)	Print time per print table
Draft	600×600	6	4.21	5 m 10 s
High speed		8	3.14	6 m 55 s
Standard	600×900	10	2.56	8 m 30 s
		12	2.12	10 m 15 s
High quality	1200×1200	16	1.57	13 m 50 s
		12	1.53	14 m 10 s
		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), except MUH-100-Si. Refresh level:0

## Maximum 4.21 m<sup>2</sup>/h (\*4) 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 (\*5). 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.



\*4: 600 × 600 dpi / 6-Pass  
\*5: Speed comparison between UJF-7151 plus and UJF-6042.

## MIMAKI's high-value added print with special color ink broadens the possibilities of business.

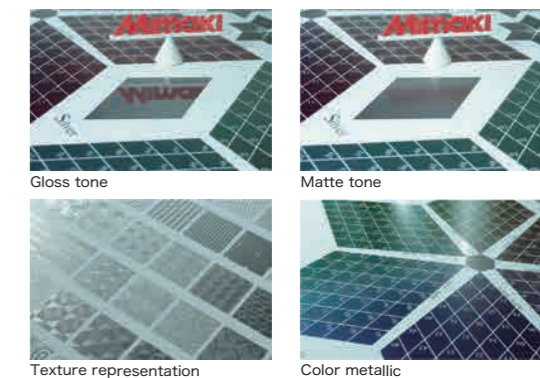
### [Ink settings]

LH-100/LUS-120/LUS-350	LH-100/LUS-120	LUS-120	LH-100/MUH-100Si
4C+W CI	4C+W Pr	4C+Pr CI	4C+W Si/4C+CI Si
C M Y K + W CI	C M Y K + W Pr	C M Y K + Pr CI	C M Y K + W or Si CI
1L bottle	1L bottle	1L bottle	1L bottle (Si:200ml bottle)

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

## Metallic

The MMC (Mimaki Metallic Control) is the system dedicated to metallic printing using Mimaki's unique "Surface Imaging technology". The MMC printing technology that separately prints one type of metallic ink in gloss and matte tones. Using separately the beautiful glossy tone print like mirror finish and the matte tone print of metallic texture with suppressed gloss feeling will expand the range of expressions. Texture expression with embossing effect can be printed by changing the ink jet concentration. The texture expression whose appearance changes according to the light reflection provides a higher level of performance appeal. Color metallic expression is possible by printing with colored ink on top of metallic ink. By combining the application of metallic, color and color metallic, high-quality design print can be available.



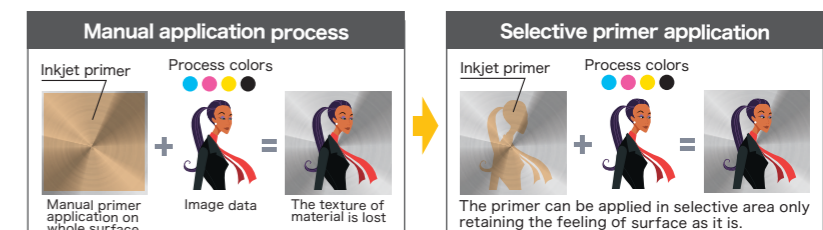
Gloss tone Matte tone

## Clear

It is a clear ink that can give an additional value such as both gloss and matte tones, texture expression according to the application. UJF-7151 plus mounting system for clear print control, "MCC (Mimaki Clear Control)" allows the minimization of uncured time to prevent dust from sticking and to avoid bubble generating. It provides high-grade glossy representation and expressive embossing feeling with highly-concentrated clear to lead a fine and beautiful texture print.

## Primer

It is an inkjet primer that improves the adhesion of materials such as resin, glass, metal and those surface-finished. Expanding the range of material selection, high value added applications can be produced.



As the primer, PR-200 is applied simultaneously with color printing, the PR-200 applying only to the necessary part of material is possible, too. Therefore the texture of the base material that was lost by conventional manual primer applying can be maintained.