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

Specifications

Printhead		On-demand piezo head
Print resolution		600×600dpi、600×900dpi、1,200×1,200dpi
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 × 710 mm (20 × 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 (W×D H)		2,193 × 1,572 × 1,273 mm (86.3 × 61.9 × 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

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		
	Clear	LH100-CL-BA		
LH-100	Cyan	LH100-C-B2	250ml bottle	"GREENGUARD Gold" Certification Ink
	Magenta	LH100-M-B2		
	Yellow	LH100-Y-B2		
	Black	LH100-K-B2		
	White	LH100-W-B2		
	Clear	LH100-CL-B2		
LUS-120	Cyan	LUS12-C-BA	1L bottle	"GREENGUARD Gold" Certification Ink
	Magenta	LUS12-M-BA		
	Yellow	LUS12-Y-BA		
	Black	LUS12-K-BA		
	White	LUS12-W-BA		
	Clear	LUS12-CL-BA		
LUS-120	Cyan	LUS12-C-B2	250ml bottle	"GREENGUARD Gold" Certification Ink
	Magenta	LUS12-M-B2		
	Yellow	LUS12-Y-B2		
	Black	LUS12-K-B2		
	White	LUS12-W-B2		
	Clear	LUS12-CL-B2		
LUS-350	Cyan	LUS35-C-BA	1L bottle	
	Magenta	LUS35-M-BA		
	Yellow	LUS35-Y-BA		
	Black	LUS35-K-BA		
	White	LUS35-W-BA		
	Clear	LUS35-CL-BA		
MUH-100-Si	Silver	MUH-10-Si	1 bottle	UV Metallic ink 200ml bottle
IJ 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	1,000ml×2	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%1L		SPC-0783	1,000ml 1	For LED-UV unit
Mist absorption filter		SPC-0816	10	
LED-UV unit filter		SPC-0817	4	

⚠ 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.

⚠ 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 emittance 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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Taiwan	MIMAKI ENGINEERING (TAIWAN) CO.,LTD.
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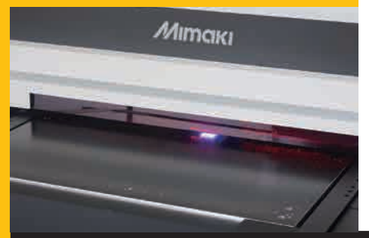
For
INDUSTRIAL
DESIGN



Mimaki

High-Performance
Flatbed UV Inkjet Printer

UJF-7151 plus

High Quality
High Performance

Astonishingly high-quality
and
high-accuracy printing

Metallic Ink !

LED UV

Mimaki Green Technology

GREENGUARD GOLD

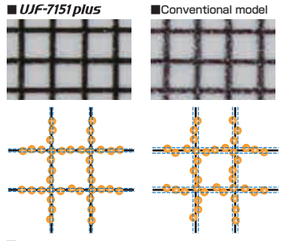
High Quality
High Performance

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. IIn 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.

■Ball screw



■Comparison of ink landing accuracy
●=Ink droplet ┈┈=Landing error range

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.

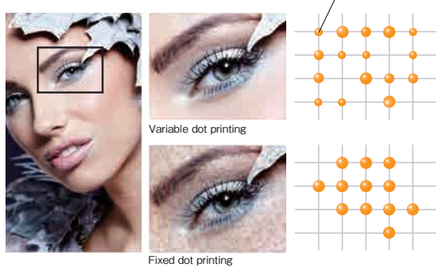
◎Mimaki Fine Diffusion 1(MFD1)

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.

Figure 1: Printhead comparison

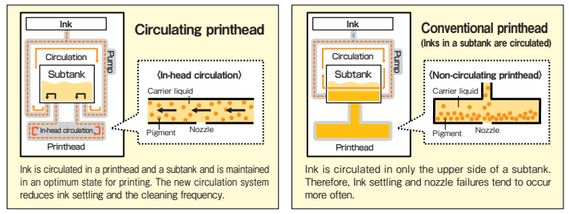
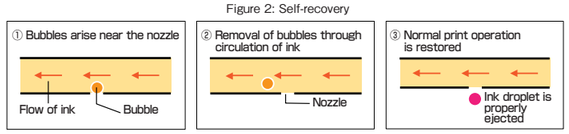


Figure 2: Self-recovery

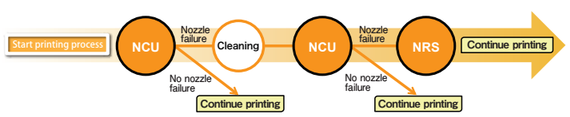


◎Nozzle Check Unit (NCU) automatically detects and recovers clogged nozzles

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.

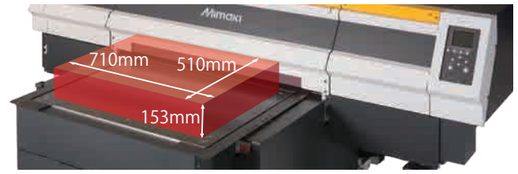
Print mode	Resolution	Number of passes	Print speed (㎡/h)	Print time per print table
Draft	600×600	6	4.21	5 m 10 s
High speed		8	3.14	6 m 55 s
		10	2.56	8 m 30 s
Standard	600×900	12	2.12	10 m 15 s
		16	1.57	13 m 50 s
High quality	1200×1200	12	1.53	14 m 10 s
		16	1.16	18 m 40 s

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 m2/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.

■Printable area



*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.

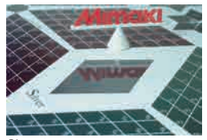
【Ink settings】

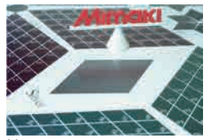
LH-100/LUS-120/LUS-350	LH-100/LUS-120	LUS-120	LH-100/MUH-100Si
4C+W Cl	4C+W Pr	4C+Pr Cl	4C+W Si/4C+Cl Si
C M Y K + W Cl	C M Y K + W Pr (※6)	C M Y K + Pr Cl (※6)	C M Y K + W or Cl + Si
1L bottle	1L bottle	1L bottle	1L bottle (Si:200ml bottle)

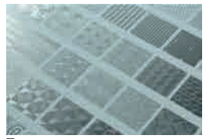
*6: Pr implies (PR-200).

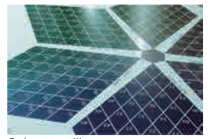
Metallic

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


Texture representation


Color metallic


Gloss tone

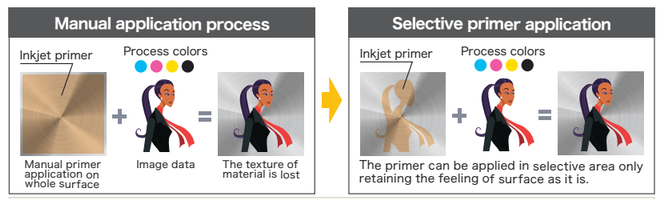

Matte tone

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.