Software RIP combining usability and high performance

RasterLink6

* "Raster Link Pro 5" is bundled with UJF-6042 as well.

The advanced Raster Link 6 software RIP is capable of producing high quality color images while offering variable data and bar code capabilities.
With special functions focused on volume production all based on simple and a friendly user interface. The ICON based selectable operation menus and easy scroll & click functions of job functionality and operation make Raster Link 6 the ideal combination with the UJF-6042.

Intuitive and user-friendly operation



1 User friendly and intuitive functions of the menu driven software make it easy to navigate.



2 ICON driven menus will guide the user to see the actual layout and window display for each function as selected and have the ability to save the settings for future use or reference capability.

Point 1 JIG & Template Function

Registration of the template is achieved through a "JIG layout function" parameter in Raster Link 6. The designed image can be positioned inside the template layout procedure and positioned for print setup and registration of image file.



1 Register the jig layout　　2 Position the image design data

Point 2 Supports Web update function

WEB supported profile/update function, like found in Raster Link Pro 5, allows the user to update profiles, versions, and other specific program updates via the internet.

Specifications

Item		UJF-6042
Head		On-demand Piezo head
Print resolution	Y axis	720 dpi, 1,440 dpi, 1800 dpi
	X axis	600 dpi, 900 dpi, 1,200 dpi, 1,800 dpi
Ink	Type	UV curable ink : LH-100 (C/M/Y/K/W/Cl)
		UV curable ink : LF-140 (C/M/Y/K/Lc/Lm/W)
		UV curable ink : LF-200 (C/M/Y/K/W)
	Supply system	220 ml cartridge / 600 ml ink pack
	Ink circulation	White ink circulation by MCT (Mimaki Circulation Technology)
Maximum print size (W × D)		610 × 420 mm (24.0" × 16.5")
Media	Size (W × D)	610 × 420 mm (24.0" × 16.5")
	Height	Less than 150 mm (5.9")
	Weight	Less than 7 kg (15.4 lbs) / When using a height adjuster, less than 4 kg (8.8 lbs)
Media suction		Air suction by vacuum
Print accuracy	Absolute accuracy	± 0.3 mm (0.01") or ± 0.3 % from specified print distance
	Repeatability	± 0.2 mm (0.01") or ± 0.1 % from specified print distance
UV unit		Equipped with UV LED (Light Emitting Diodes)
	Lifetime*	About 10,000 hours
Interface		USB2.0
Applicable standard		VCCI class A, FCC Class A, CE Marking, RoHS Directive, REACH Regulation
Power specifications		AC100 V ～ AC240 V (Automated voltage conversion), 50 / 60 Hz
Power consumption		Less than 450 VA
Operational environment	Temperature	20 ℃ ～ 35 ℃ (68 °F ～ 95 °F)
	Humidity	35 ～ 65 % Rh
	Temperature accuracy	20 ℃ ～ 25 ℃ (68 °F ～ 77 °F)
	Temperature gradient	Less than ± 10 ℃/h (± 18 °F/h)
	Dust	Equivalent to normal office level
Dimensions (W × D × H)		1,510 × 966 × 960 mm (59.4 × 38.0 × 37.8")
Weight		150 kg (330.7 lbs)

* Reference value. There is no guarantee as to the lifetime.

●All trademarks or registered trademarks are the property of their respective owners. ●Specifications are subject to change without notice. ●Some of the screens and printing samples in this catalog are artificial renderings. ●Inkjet printers print using extremely fine dots, thus colors may vary slightly following replacement of the printing heads. Also note that if using multiple printer units, colors may vary slightly among the units due to slight individual differences among the units.

Supplies

Item		220 ml cartridge	600 ml ink pack
		Item No.	Item No.
LH-100	Cyan	SPC-0659-C	SPC-0597-C
	Magenta	SPC-0659-M	SPC-0597-M
	Yellow	SPC-0659-Y	SPC-0597-Y
	Black	SPC-0659-K	SPC-0597-K
	Light cyan	SPC-0659-LC	SPC-0597-LC
	Light magenta	SPC-0659-LM	SPC-0597-LM
	White	SPC-0659-W	SPC-0597-W
	Clear	SPC-0659-CL	SPC-0597-CL
LF-140	Cyan	SPC-0727-C	SPC-0728-C
	Magenta	SPC-0727-M	SPC-0728-M
	Yellow	SPC-0727-Y	SPC-0728-Y
	Black	SPC-0727-K	SPC-0728-K
	Light cyan	SPC-0727-LC	SPC-0728-LC
	Light magenta	SPC-0727-LM	SPC-0728-LM
	White	SPC-0727-W	SPC-0728-W
LF-200	Cyan		SPC-0591-C
	Magenta		SPC-0591-M
	Yellow		SPC-0591-Y
	Black		SPC-0591-K
	White		SPC-0591-W
PR-100	IJ Primer	SPC-0731	SPC-0732
PR-200		PR-200-22	PR-200-60
Eco-cartridge (8 cases)			OPT-J0237

❶600 ml ink pack requires eco cartridge (OPT-J0237). Eco cartridges can be used repeatedly by replacing ink packs. ❷Inkjet primer cannot be used in conjunction with LF-200 inks. ❸Clear ink is not available for LF-140 inks. However LH-100 clear ink can be used in combination with LF-140 inks.

⚠ 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:

You are dealing with UV light sources that may harm 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.

Relative Product



Tabletop size
UV LED Curing Flatbed Inkjet Printer
UJF-3042FX
UV PRINTER

LED-UV / Max Print Size 300 mm × 420 mm / Height 50 mm / 3 types of UV inks (LH-100, LF-140, LF-200)

Bundled item　High performance software RIP RasterLink Pro5 IP



Tabletop size
UV LED Curing Flatbed Inkjet Printer
UJF-3042HG
UV PRINTER

LED-UV / Max Print Size 300 mm × 420 mm / Height 150 mm / 3 types of UV inks (LH-100, LF-140, LF-200)

Bundled item　High performance software RIP RasterLink Pro5 IP

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DB20275-05

Mimaki
Product Brochure

Create Almost Anything



A2 size
(610 mm × 420 mm)

LED-UV

MAX 1,800 × 1,800 dpi

UV LED Curing Flatbed Inkjet Printer
UJF-6042
UV PRINTER

Mimaki Green Technology

NEW! Supports A2 size & 150 mm height to provide higher image quality than ever before

A variety of different materials from plastics, glass, and metals can now be printed onto many applications.
Using a unique ball screw type conveyance mechanism to produce higher resolution prints. The 1,800 X 1,800 dpi, variable dot technology, with minimum drop size of 4 pl, achieves impressive high quality images.
The UJF-6042, allows you to print on promotional products, awards and gift merchandise along with industrial components and accessories.

Create Almost Anything

MAX 1,800×1,800 dpi

Print quality is greatly increased by a new accurate linear mechanical bed positioning technology offering higher resolution printing.
High resolution printing is achieved on many substrates such as plastics, metals, wood, leather and glass.
Increased dot placement and accuracy of print raise the overall image quality capabilities to meet the demanding standards of industry.



01 Higher image quality than ever before

Ball/Screw drive linear actuator technology allows for dot placement and image quality with precision accuracy

Adopted **a unique ball screw type** head conveyance mechanism that had been equipped only in high-end machines. It improved the accuracy of the ink drop onto the substrate. This precise ink dot placement can prevent bandings substantially.
Furthermore, a high resolution print mode of **1,800 x 1,800 dpi** has been added to achieve highly precise printing output.

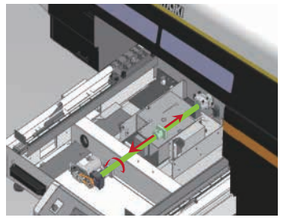
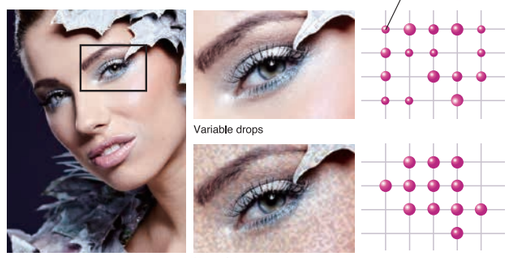


Image of ball screw

Smooth and beautiful gradation achieved by Mimaki's unique head control technique

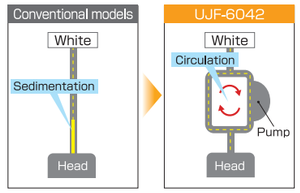
Variable drops function provides 3 different drop sizes at once. The minimum size is **amazingly 4 pico-litter** and ensures a photographic type image offering smooth gradation patterns and brilliant transitions of many color layers even in the 4-color mode.

4 pl variable drops make difference.
Excellent gradation and hypochromic effect



02 The heritage of state-of-the-art functions

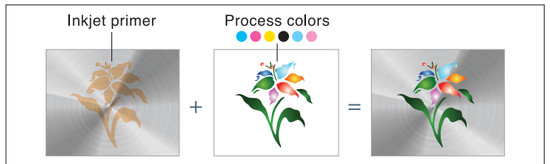
Ecological & economical applications of white ink



MCT (Mimaki Circulation Technology) was developed and designed to circulate the white ink formulations to improve stability and dispersions of the pigments in the fluid reservoir and ink path.Advantages of less white ink maintenance down time and avoids clogging issues while in the bulk ink receptacle and overall jetting of the white UV LED inks.
* MCT works only with white ink.

Automatic primer application function

Usually primers are applied separately in a manual application process, but the UJF-6042 incorporates an automatic primer application function. The new inkjet primer cartridges are simply inserted into the corresponding ink slot, enabling the primer to specifically target the print image area only.
* Inkjet primer cannot be used in conjunction with LF-200 inks.



The primer can be applied in selective areas only, thus retaining the surface feeling of the media.

Nozzle recovery function

Even if nozzle washing has no effect on a troubled nozzle, the print image quality can be retained immediately.
During this nozzle downtime, this nozzle recovery function enables printer to produce high quality prints continuously without slowing down the printing process.



* The recoverability of this function is limited.

03 Multiple UV ink type options to fulfill your requirements

Three types of UV ink are available to achieve the best print results on a wide range of applications. In addition, eight ink slots enable various ink configurations, such as 6 colors plus white and clear.
Furthermore by printing different layers of ink and/or gloss, your images will not only look more enticing but also will have a raised / embossed quality that will satisfy your customers.





Multi-layered print

Type	LH-100	LF-140	LF-200
Color	C M Y K Lc Lm W Cl Pr	C M Y K Lc Lm W Cl Pr	C M Y K W
Features	Excels in scratch and chemical resistance. Hard UV ink with fine color repeatability.	6 color inks including light color inks, express smooth gradation, and show flexibility.	Enables stretching of ink up to 200 % with high adhesion. Applicable to several kinds of substrates.
Flexibility	None	Good	Very good

·Ink type and color configuration must be chosen at the time of installation.
·Clear ink is not available for LF-140 ink. However, LH-100 clear ink can be used in combination with LF-140 ink.
·Ink flexibility of LF-140 ink and LF-200 ink may vary according to the substrate; please verify your substrate in advance.
·The print mode of 1,800 x 1,800 dpi and 4 pl variable drops cannot be used in conjunction with LF-200 inks.

04 Highly refined environmentally friendly functions

UV LED offers reduced energy consumption, longer lifetime and almost no VOC* emissions during printing.
You can choose the eco-cartridge method which contributes to waste reduction and reduced ink cost.
Eco-cartridges can be repeatedly used by changing spent ink packs.
* VOC = Volatile Organic Compounds

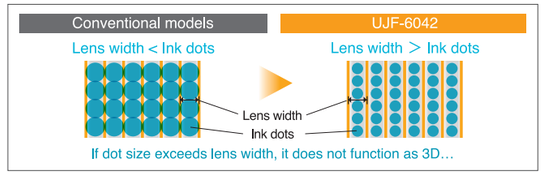


Applications

Special finish which enhances added value

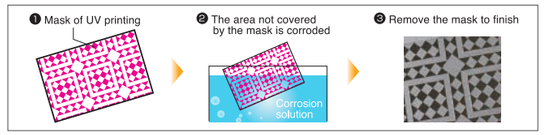
"3D Lenticular" achieved by high definition

This printer can discharge minimum 4 pl ink dots in 1,800 × 1,800 dpi. It enables lenticular printing by 3D lens of 100 lpi which had been deemed difficult to accomplish for the existing digital printer.
* lpi = line per inch
* For 3D lenticular printing, dedicated software for data creation and 3D lens are required separately.



"Etching process" creates unique textures on metals

Etching is a surface treatment which utilizes the corrosion action of metal. thru chemicals. The area which should not be corroded is covered with a mask of UV ink. Then the substrate is immersed into the corrosion solution to be corroded. With such treatment, you can achieve high quality textures, and permanent engraving.



3D lenticular



Nameplate (Full-color)



Nameplate (Etching)



Card



Membrane switch



Photo album



Wedding board



Gift & novelty

