

excellence



Software RIP combining usability and high performance

RasterLink6

It is not so useful if high performance software is hard to use... The new RasterLink6 is focused on being simple and usable. With its many new functions, "Software RIP for Everybody" has been achieved and provides for more professional and advanced finished products through its universal ease of use.

●Intuitive and user-friendly operation



Setting items are indicated by icons, enabling intended operations to be performed intuitively without hesitation.

●The 3-layer print which uses White ink can be set up easily.



White color printing data for 2nd layer and color printing data for 3rd layer can be created from Color printing data for 1st layer by one-click.



Easy 3 layer print setting. Selecting 3 print jobs for 3 layer printing, and press the "Composition" button. Changing printing order of print jobs and mirroring are also easily set.



Multiple print jobs for 3 layer printing can be laid out and copied on the same media. Automatic layout function optimizes print data layout for saving media consumption.

●Web update function is supported.

Supports the Web update function that has been well-received in RasterLinkPro5. Program update and profile download can be easily performed via internet.

■Specifications

		UJV500-160
Printhead		On-demand Piezo head (6 printheads are arrayed in three staggered lines)
Print width		297mm ~ 1,610 mm
Print resolution		300dpi, 600dpi, 900dpi, 1,200dpi
Ink	Type	UV curable ink LUS-120(C, M, Y, K, W) / LUS-150(C, M, Y, K, Lc, Lm, W) / LUS-200(C, M, Y, K, W)
	Supply system	Each ink color is provided to the printhead from the ink bottle (2L) installed in the external ink supply unit
	Ink Circulation (*1)	Mimaki Circulation Technology (MCT)
	Ink degassing module	Mimaki Degassing Module (MDM)
Media	Size	1,620 mm or less
	Roll weight	60 kg or less
	Thickness	0.1mm ~ 1mm The specified range is assured for the appropriate media for UJV500-160
	Roll diameter	φ300 mm or less
	Roll inside diameter	2-inch, 3-inch
Cutter		Y-direction cutter unit is installed in the carriage
Media heater		3-way intelligent heater (Pre/Print/After)
Head gap		1.5mm ~ 7.0mm The gap can be specified by a user / Media thickness is automatically detected
Print accuracy	Absolute accuracy	± 0.3 mm or ± 0.3% from specified print distance
	Repeatability	± 0.2 mm or ± 0.1% from specified print distance
UV curing units	Head unit	UV LED lamp (Lifetime: about 5,000 hours) *2
	Post cure unit	Fluorescent UV tube lamp (Lifetime: about 1,000 hours) *2
Interface		USB 2.0
Certifications		VCCI class A, CE Marking (Machinery directive, and RoHS), CB, UL
Power supply		Single phase AC200-240V 50/60Hz
Power consumption		7.2 kVA or less
Operational environment(*3)	Temperature	20°C ~ 30°C
	Humidity	35 - 65 %Rh
	Dust level	Equivalent to the general office level
Dimensions (W X D X H) (*3)		3,852X1,977X1,690 mm
Weight (*3)		800 kg

■Supplies

Item	Color	Product No.	Description
UV curable ink LUS-120	Cyan	LUS12-C-BA	1 L bottle "GREENGUARD Gold" Certification Ink
	Magenta	LUS12-M-BA	
	Yellow	LUS12-Y-BA	
	Black	LUS12-K-BA	
	White	LUS12-W-BA	
UV curable ink LUS-150	Cyan	LUS15-C-BA	1 L bottle "GREENGUARD Gold" Certification Ink
	Magenta	LUS15-M-BA	
	Yellow	LUS15-Y-BA	
	Black	LUS15-K-BA	
	Light cyan	LUS15-LC-BA	
	Light magenta	LUS15-LM-BA	
UV curable ink LUS-200	Cyan	LUS20-C-BA	1 L bottle "GREENGUARD Gold" Certification Ink
	Magenta	LUS20-M-BA	
	Yellow	LUS20-Y-BA	
	Black	LUS20-K-BA	
	White	LUS20-W-BA	
F-200/LF-200 cleaning liquid	SPC-0568	Cleaning liquid for the maintenance.	
Flushing Liquid 07	FL007-Z-BB	2L bottle Cleaning liquid for ink lines. This is used for initial ink filling and ink set change.	

*1 MCT works only with white ink.

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

*3 Ink Station is not included in the dimensions and the weight.

-Each ink color/primer is delivered in a bottle (1L). When using the printer, please pour the ink/the primer into the bottle installed in the external ink supply unit.
-The flexibility of LUS-120,150 and 200 may vary according to the substrate, please verify your substrate in advance.
-Inks may not be cured adequately when the print speed is faster than that of the draft mode.

●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.

⚠ 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 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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China SHANGHAI MIMAKI TRADING CO.,LTD.

Roll to Roll LEDUV-Inkjet Printer

UJV500-160

Mimaki™

Product Brochure



High productivity
and high weatherability
Inkjet print signage



MAX
60m²/h



High Speed LED-UV ink: LUS-150

LUS-150 has the best curing property for high speed printing. This ink offers improved curing times resulting in a less tactile sticky feeling. This ink is flexible up to 150% resulting in increased elasticity and bending performance on a wide variety of media and substrates with little cracking. Additionally, white ink allows for printing on transparent film for window graphics.

* As the flexibility of LUS-150 ink may vary according to the substrate, please verify your substrate in advance.

Instantly dry, 3 layer white ink

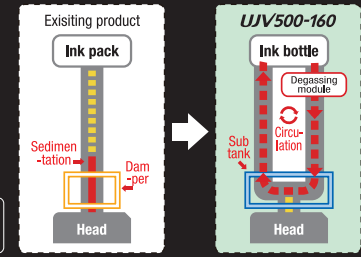
A 3-layer print of color, white and color can be performed simultaneously. Printing a base layer of white ink reproduces the natural beauty of process colors that are printed on transparent substrates, with high precision and no multi-pass color registration shift.



White ink circulation system : MCT

By periodically circulating white ink in the line, pigment deposition is prevented. This accomplishes stable production and reduction of ink discharge and waste.

* MCT (Mimaki Circulation Technology) works only with white ink.



MCT & MDM image

The high media compatibility of inks opens a door to a wide range of applications for inkjet print signage.

LUS-150 ink

Roll to Roll LEDUV-Inkjet Printer
UJV500-160

LUS-200 ink

Outdoor durability is guaranteed by 3M™ MCS™ Warranty

Outdoor durability in warranty and 200% flexibility for vehicle wraps.

Maximizing the capability of inkjet print signage

Achieve high speed, high quality printing with the UJV500-160, along with guaranteed outdoor durability from 3M's "3M™ MCS™ Warranty".

The long term warranty and the 200% flexibility ideal for curved surface applications open up new possibilities in the inkjet signage industry.

merit 1

Having an outdoor durability in warranty (*) allows for installation of printed materials in places where regular maintenance is not possible, without worrying about deterioration. Additionally, applications with severe standards for outdoor durability can now be achieved.

merit 2

The new UV ink "LUS-200", which has been jointly-developed with 3M, can stretch up to 200% after curing. Since stretching will not crack the image, the LUS-200 ink is ideal for applications with curved surfaces such as vehicle wraps.

* LUS = LED UV Stretchable Ink

* The flexibility of LUS-200 inks may vary according to the substrate, please verify your substrate in advance.

About the 3M™ MCS™ Warranty

When finished products are printed using the UJV500-160 printer and LUS-200 ink onto media specified by 3M, and are installed properly according to 3M's instructions, the quality is guaranteed for the warranty period.

① Outdoor durability is guaranteed.

② When a warranty letter is needed, an application must be completed. Following this application, a screening by 3M will be performed. If approved, issuance of the warranty certificate will follow.



* For further details, please refer to 3M's guide "Certificate of 3M™ MCS™ Warranty Program".
* Warranty periods vary based on type of application, type of media, and graphic protection.



High Speed



High Quality

Max Speed 60m²/h

High-speed LED-UV printing with unrivaled beauty. Combination of high speed and quality printing enable to shorten the delivery time and increase business opportunity.

High Speed Print

Max Print Speed 60m²/h

Newly developed print head

The UJV500-160 can print at high speeds up to 60 m²/h. A speed of 24 m²/h can be reached while printing with white ink. The number of print heads and nozzles has been updated. The six 2 inch print heads are aligned in a staggered array, which is optimized to eject ink effectively.

* 1 head=1,280 nozzles (320 nozzles X 4 rows). In total: 7,680 nozzles (1,280 nozzle X 6 heads)

7,680 nozzles

Print Speed

4-color ink set

High Speed	300×450HQ	6P Bi/Normal	60m ² /h
Production	600×600dpi	8P Bi/Hi	45m ² /h
Standard	600×900dpi	12P Bi/Hi	30m ² /h
High Resolution	1200×1200dpi	16P Bi/Hi	12m ² /h

4-color + white ink set

High Speed	300×450HQ	White	30m ² /h
	12P Bi/Normal	2Layer	15m ² /h
Production	600×600dpi	White	23m ² /h
	16P Bi/Hi	2Layer	11.5m ² /h
Standard	600×900dpi	White	15m ² /h
	12P Bi/Hi	2Layer	7.5m ² /h
High Resolution	1200×1200dpi	White	6m ² /h
	16P Bi/Hi	2Layer	3m ² /h
		3Layer	2m ² /h

The print speeds above are the results of printing on media with a 1,610mm width. Depending on the firmware setting, the print speeds above may not be reproduced.

Newly developed LED-UV Unit



Curing efficiency has been improved due to renovating the LED-UV unit. In addition to being long-lasting and energy-saving, LED UV lamps do not generate excessive heat. This enables printing onto a wider range of materials, including heat-sensitive substrates, without media deformation.

High Quality Print

"MAPS" - a mask pattern that reduces banding

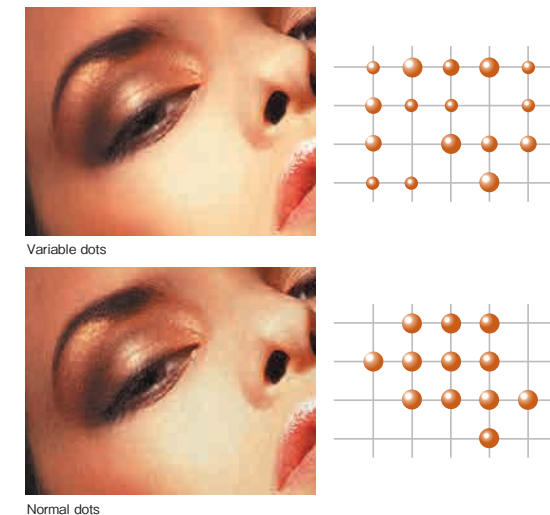
In addition to the normal pattern, you can select "MAPS" which effectively reduces banding. MAPS implements printing in a gradational mask pattern and diminishes the appearance of banding.

* Depending on the setting of MAPS, print speed varies. (MAPS = Mimaki Advanced Pass System)



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

Variable dot printing ejects ink drops in 3 different dot sizes. This smooth gradation without granular appearance is even achieved with 4-color printing.



User Friendly

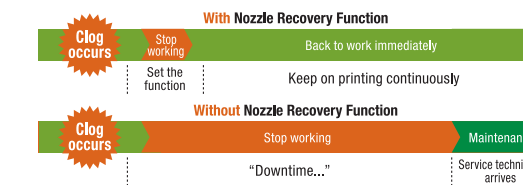
Vertical Tension Take-up System
Newly developed take-up device enables stable continuous operation



By pulling media down vertically, feeding errors are reduced, thus increasing print stability. This allows for continuous printing onto large media with a maximum roll diameter of 300mm and weight of 60kg. The high speed printing of the UJV500-160 enables high productivity. Additionally, the take up unit is positioned more towards the front than conventional printers, allowing media to be set more easily.

Nozzle Recovery Function enables continuous operation

Previously, repairs by service personnel were required when nozzle clogging was not corrected by cleaning. Now, the nozzle recovery system allows for printing to proceed as if the nozzle is not clogged (*6), without slowing down the print speed. *The recoverability of this function is limited.



Eco Friendly

Refined, environmentally friendly functions

Low VOCs & Ozone-Free

UV curing generates minimal VOCs. LED UV ink is ozone-free.

Power saving, long lasting LED-UV lamp

The LED-UV lamp generates very little heat. Unlike metal halide lamps, LED-UV lamps light up only where the image is printed, which leads to cost-effective production. As the life of the lamp is very long, both environmentally-friendly and economical production is supported.

Ink supplied in bottles



Refill inks with bottles

Ink Station

Each UV ink is supplied in a high-capacity bottle instead of a cartridge. This economical and ecological package contributes to reduce the amount of industrial waste and running costs.

Low cost ink supplied in bottles

MDM, which removes nozzle trouble caused by bubbles in the ink, is employed. Ink that has not been degassed is supplied in bottles (the printer handles the degassing), both of which enable lower ink costs. *MDM = Mimaki Degassing Module



User & Eco Friendly

