

Sophisticated RIP software maximizes the performance of UJV500-160

RasterLink6

Additional useful functions

1. Three ink layers in one pass print function

A three-layer print of colour, white and colour can be performed at one time. Printing a base layer 'underlay' of white ink allows perfect reproduction of beautiful natural colours when printing on transparent media. Window graphics can be printed with high precision and no multi-pass colour registration shift.

2. Layout function

Three ink layers or copied images are freely laid out if print conditions remain the same. This function reduces the media waste by efficient layout.

3. Multi-profile, simultaneous printing function

Several profiles that match conditions can be simultaneously printed. This is particularly useful for test output when the profile for a target image quality or colour requires multiple 'profile' test prints.

*To be supported by RasterLink6 program update.

User friendly RIP key features

- Easy to follow icons enable intuitive and user-friendly operation
- Related settings feature in one window to simplify RIP operations, with 'Register as Favourite' option available for regularly used layouts
- Printing progress can be monitored on the main screen and operating status, such as predicted printing time, communicated via e-mail

Specifications

Item	UJV500-160	
Head	On-demand Piezo head (6 printheads with 3 staggered configuration)	
Print width	297 mm ~ 1,610 mm	
Print resolution	300dpi, 600dpi, 900dpi, 1,200dpi	
Ink	Type	UV curable ink: LUS-150 (C.M.Y.K.W) UV curable ink: LUS-200 (C.M.Y.K)
	Supply system	Supplied by 2L Ink Station
	Ink Circulation ⁽¹⁾	White ink circulation by MCT (Mimaki Circulation Technology)
	Ink degassing module	Equipped with MDM (Mimaki Degassing Module)
Media	Size	1,620 mm or less
	Roll weight	60 kg or less
	Thickness	0.1 mm ~ 1 mm (The thickness in which media can be fed)
	Roll diameter	φ 300 mm or less
	Roll inside diameter	2-inch, 3-inch
Cutter	Y-direction cutter after head section	
Media heater	3-way intelligent heater (Pre/Print/After)	
Print gap	1.5 mm ~ 7.0 mm (Configurable by users, automatic recognition of the thickness)	
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 unit	Head unit	Equipped with UV LED (Lifetime: about 5,000 hours) ⁽²⁾
	Post cure unit	Equipped with fluorescent UV tube lamp (Lifetime: about 1,000 hours) ⁽²⁾
Interface	USB 2.0	
Applicable standard	VCCI class A, CE Marking, CB Report, UL, RoHS Directive, Machinery Directive	
Power specification	AC 200 - 240 V 50/60 Hz	
Power consumption	7.2 kVA or less	
Operational environment	Temperature	15 °C - 30 °C
	Humidity	35 - 65 %Rh
	Dust	Equivalent to normal office level
Dimensions (W X D X H) ⁽³⁾	3,852 x 1,977 x 1,690 mm	
Weight ⁽³⁾	800 kg	

¹MCT works only with white ink.

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

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

• Some of the samples in this folder are artificial renderings • Specifications, design and dimensions stated in this folder may be subject to change without notice (for technical improvements, etc.)
• The corporate and merchandise names written on this folder are the trademark of the respective corporations • Inkjet printers print using extreme fine dots, so colours may vary after replacement of the printing heads, also note that if using multiple printer units, colours could vary slightly from one unit to other unit due to slight individual differences • Composer's errors reserved

Supplies

Item	Item No.	Remarks
LUS-120	Cyan	LUS12-C-BA
	Magenta	LUS12-M-BA
	Yellow	LUS12-Y-BA
	Black	LUS12-K-BA
LUS-150	White	LUS12-W-BA
	Cyan	LUS15-C-BA
	Magenta	LUS15-M-BA
	Yellow	LUS15-Y-BA
LUS-200	Black	LUS15-K-BA
	White	LUS15-W-BA
	Cyan	LUS20-C-BA
	Magenta	LUS20-M-BA
LUS-200	Yellow	LUS20-Y-BA
	Black	LUS20-K-BA
	White	LUS20-W-BA
Ink bottle 2L BK	SPA-0210	1 pcs (empty bottle)

- Every UV ink is sold by the litre. Please put it into the Ink Station.
- As ink flexibility may vary according to the substrate, please verify your substrate in advance.

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⚠ 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, please verify your substrate in advance.

⚠ 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.

UJV500-160



High-speed LED-UV inkjet printer...

Mimaki

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SIGN & GRAPHICS



eco

Mimaki

The world imagines... Mimaki delivers



A new generation of high speed LED-UV inkjet printing

The UJV500-160 defines a new era in LED-UV inkjet printing by combining high-speed and unrivalled print quality. Three different ink options provide users with greater production flexibility and wider options for different applications. LUS-200 ink delivers high outdoor durability and a flexibility which is particularly suitable for curved surface applications such as vehicle wraps, and is fully warranted for all-weather durability by 3M, when used with approved media. Additionally, LUS-120 and LUS-150 inks provide scratch resistance and improved curing time. White ink option allows for transparent window film prints and enhancement of other colours.

ENGINEERING EXCELLENCE AND CREATIVE INNOVATION

Founded in Japan in 1975, Mimaki Engineering has steadily grown by reputation and influence into a global company with large operational bases in Asia and the Pacific, United States and Europe.

Renowned for award-winning performance, peerless build quality and innovative technology, Mimaki has established itself as a leading manufacturer of wide-format inkjet printers and cutting machines for the sign and graphics, textile and apparel and industrial markets. In addition, Mimaki also provides a comprehensive range of supporting products; hardware, software and associated consumable items, such as inks and cutting blades.

From outdoor signage and billboards to interior decoration and furnishing, from packaging and labels to promotional gifts and apparel, Mimaki is committed to developing technology that sets new industry standards, producing machines and products that turn the imagination of our customers into breath-taking reality.

... Mimaki delivers

UJV500-160 delivers ...

- UV curable inks for a smooth, glossy finish with brilliant colour definition
- Fast drying inks for improved productivity
- Excellent print durability for outdoor or indoor applications
- High speed output at up to 60 m² per hour
- White ink allows for printing on transparent film or coloured media
- Newly developed take up device for stable, continuous operation
- Prints exit machine completely dry, for immediate post-processing
- Mimaki Advanced Pass System (MAPS) reduces banding on solid print areas
- Nozzle Recovery Function aids continuous operation

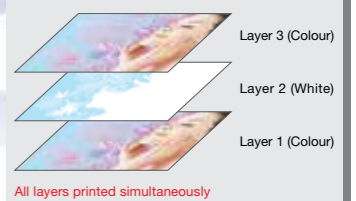
- UV CURABLE INKS
- HIGH SCRATCH RESISTANCE & DURABILITY
- 60 m²/h MAX. PRINT SPEED
- 4 COLOUR + WHITE PRINT OPTIONS
- LOW INK CURING TEMPERATURES
- ECO FRIENDLY TECHNOLOGY
- 3M OUTDOOR DURABILITY WARRANTY

UJV500-160



Instantly dry, 3 layer white ink

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



Create ... Indoor and Outdoor Signage and Display Graphics, Banners, Vehicle Graphics and Wraps or any wide format application where high definition, durability and ink flexibility are needed...

KEY TECHNICAL FEATURES ...

Three ink options to suit your needs: from high speed UV LED inks to high outdoor durability inks

LUS-120	LUS-150	LUS-200
C M Y K + W	C M Y K + W	C M Y K + W
The LUS-120 offers improved curing times resulting in a less tactile sticky feeling. The ink offers flexibility of up to 170% and delivers the best scratch resistance among the three inks.	The LUS-150 offers improved curing times resulting in a less tactile sticky feeling. The ink is flexible up to 150% resulting in increased elasticity and bending performance on a wide variety of media with little cracking.	Developed in conjunction with 3M, LUS-200 inks carry a full 3M outdoor durability guarantee*, which is especially useful in applications where regular cleaning and maintenance is not possible.
Suitable for both indoor signage (e.g. window graphics) and outdoor signage (exceptionally good results with tarpaulin).	Especially suitable for indoor signage such as window graphics and fine arts.	The high level of stretchability after curing makes these inks particularly suitable for curved surface applications such as vehicle graphics and wraps.

* LUS = LED UV Stretchable ink
* As the flexibility of LUS inks may vary according to the substrate, please verify your substrate in advance.



3M outdoor durability warranty available when products are printed on UJV500-160 using approved 3M media and LUS-200 inks.
* Warranty periods vary based on type of application, type of media, and graphic protection.
* For further details, please refer to 3M's guide "Certificate of 3M™ Warranty Program"

High print speeds with new 6 print head formation

4-colour ink set		
High speed	300x450HQ 6P Bi/N	60m ² /h
Production	600x600dpi 8P Bi/H	45m ² /h
Standard	600x900dpi 12P Bi/H	30m ² /h
High Resolution	1200x1200dpi 16P Bi/H	12m ² /h
4-colour + white ink set		
High speed	White	30 m ² /h
	2Layer	15 m ² /h
	3Layer	10 m ² /h
Production	White	23 m ² /h
	2Layer	11.5 m ² /h
	3Layer	7.5 m ² /h
Standard	White	15 m ² /h
	2Layer	7.5 m ² /h
	3Layer	5 m ² /h
High Resolution	White	6 m ² /h
	2Layer	3 m ² /h
	3Layer	2 m 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.

White ink circulation system (MCT) / ink degassing module (MDM)

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.

Ink degassing module : MDM
MDM resolves the nozzle trouble caused by bubbles in the ink by degassing the ink. In addition, low cost ink becomes available because degassed ink is not necessary as the printer handles the degassing.
* MDM = Mimaki Degassing module

