

# 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 <sup>(1)</sup>	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) <sup>(2)</sup>
	Post cure unit	Equipped with fluorescent UV tube lamp (Lifetime: about 1,000 hours) <sup>(2)</sup>
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) <sup>(3)</sup>	3,852 x 1,977 x 1,690 mm	
Weight <sup>(3)</sup>	800 kg	

<sup>1</sup>MCT works only with white ink.

<sup>2</sup>Reference value. There is no guarantee as to the lifetime.

<sup>3</sup>Ink 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-150	Cyan	LUS15-C-BA
	Magenta	LUS15-M-BA
	Yellow	LUS15-Y-BA
	Black	LUS15-K-BA
LUS-200	White	LUS15-W-BA
	Cyan	LUS20-C-BA
	Magenta	LUS20-M-BA
	Yellow	LUS20-Y-BA
LUS-200	Black	LUS20-K-BA
	Ink bottle 2L BK	SPA-0210
		1 litre ink bottle
		1 litre ink bottle
		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.

• 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 catalogue are artificial renderings. • Inkjet printers print using extremely fine dots, thus colours may vary slightly following replacement of the printing heads. Also note that if using multiple printer units, colours 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. 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

www.mimaki.eu info@mimakieurope.com @MimakiEurope

Mimaki Europe B.V. Stammerdijk 7E, 1112 AA Diemen, The Netherlands Tel: +31 (0)20 4627640



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. Two different ink options (LUS-150 and LUS-200) 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. The LUS-150 ink option provides additional benefits of being able to print with White ink, 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
- 4 colour (+ White with LUS-150 inkset) printing
- High speed output at up to 60 m<sup>2</sup> per hour
- 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

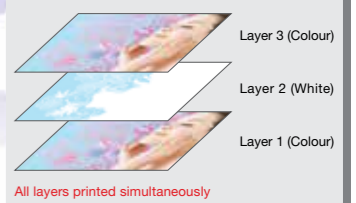
- UV CURABLE INKS
- HIGH SCRATCH RESISTANCE & DURABILITY
- 60 m<sup>2</sup>/h MAX. PRINT SPEED
- 4 COLOUR + WHITE PRINT OPTIONS
- LOW INK CURING TEMPERATURES
- ECO FRIENDLY TECHNOLOGY
- 3M OUTDOOR DURABILITY WARRANTY

## 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 ...

### 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.



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

### High outdoor durability ink: LUS-200 ink with 3M Guarantee

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. Additionally the high level of stretchability after curing makes these inks particularly suitable for curved surface applications such as vehicle graphics and wraps.



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

\* 3M outdoor durability warranty available when products are printed on UJV500-160 using approved 3M media and LUS-200 inks.  
\* The flexibility of LUS-200 inks may vary according to substrate and should be verified in advance

### High print speeds with new 6 print head formation

4-colour ink set			
High speed	300x450HQ 12P Bi/N	6P Bi/N	60m <sup>2</sup> /h
Production	600x600dpi 16P Bi/H	8P Bi/H	45m <sup>2</sup> /h
Standard	600x900dpi 24P Bi/H	12P Bi/H	30m <sup>2</sup> /h
High Resolution	1200x1200dpi 32P Bi/H	16P Bi/H	12m <sup>2</sup> /h

4-colour + white ink set			
High speed	White	30 m <sup>2</sup> /h	[Graph showing speed comparison]
	2Layer	15 m <sup>2</sup> /h	
	3Layer	10 m <sup>2</sup> /h	
Production	White	23 m <sup>2</sup> /h	[Graph showing speed comparison]
	2Layer	11.5 m <sup>2</sup> /h	
	3Layer	7.5 m <sup>2</sup> /h	
Standard	White	15 m <sup>2</sup> /h	[Graph showing speed comparison]
	2Layer	7.5 m <sup>2</sup> /h	
	3Layer	5 m <sup>2</sup> /h	
High Resolution	White	6 m <sup>2</sup> /h	[Graph showing speed comparison]
	2Layer	3 m <sup>2</sup> /h	
	3Layer	2 m <sup>2</sup> /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

