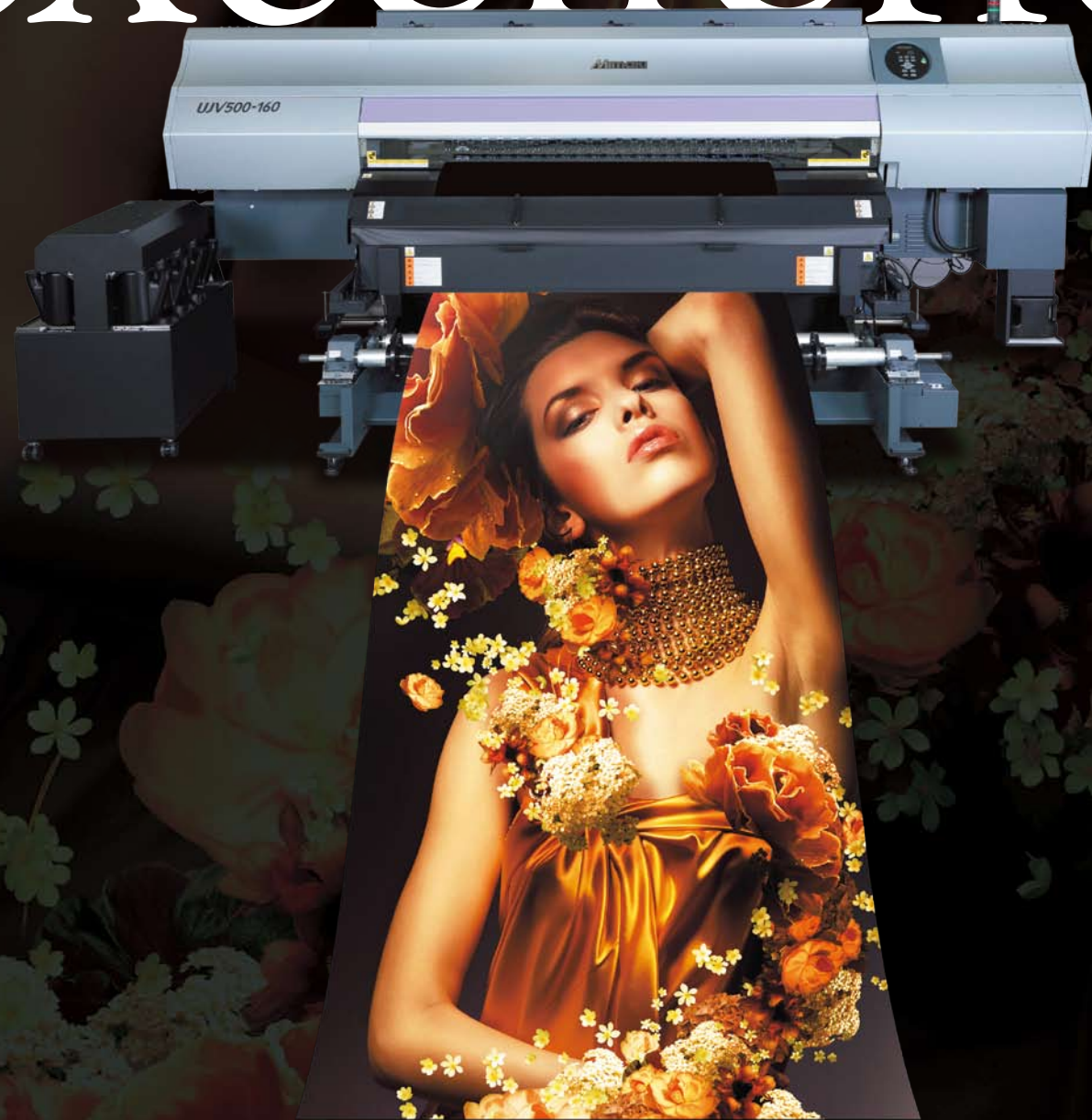# excellence

Software RIP combining usability and high performance

RasterLink 6

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.
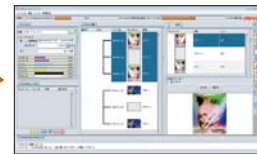
● Intuitive and user-friendly operation

●● ホワイトインク3層プリントの設定も簡単

● 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.

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

❶ 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.

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

❸ 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.

■ Specifications

Item		UJV500-160 for LUS-150 ink	UJV500-160 for LUS-200 ink
Head		On-demand Piezo head (6 printheads with 3 staggered configuration)	
Print width		297mm ～ 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, W)
	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 feeded)	
	Roll diameter	φ300 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（Lifetiime: 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(*3)	Temperature	15 ℃ - 30 ℃	
	Humidity	35 - 65 %Rh	
	Dust	Equivalent to normal office level	
Dimensions (W X D X H) (*3)		3,852X1,977X1,690 mm	
Weight (*3)		800 kg	

■ Supplies

Color	Item No.	Remarks
UJV500-160 for LUS-150 ink		
Cyan	LUS20-C-BA	
Magenta	LUS20-M-BA	
Yellow	LUS20-Y-BA	1 litter ink bottle
Black	LUS20-K-BA	
White	LUS15-W-BA	
Ink bottle 2L BK	SPA-0210	1 pcs (empty bottle)
UJV500-160 for LUS-200 ink		
Cyan	LUS20-C-BA	
Magenta	LUS20-M-BA	
Yellow	LUS20-Y-BA	1 litter ink bottle
Black	LUS20-K-BA	
Ink bottle 2L BK	SPA-0210	1 pcs (empty bottle)

*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.
Every UV ink is sold by the litter. Please put it into the Ink Station.
As ink flexibility of LUS-150,LUS-200 may vary according to the substrate, please verify your substrate in advance.

● All trademarks or registered trademarks are the property of their respective owners. ● Specificationsare 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 emittance from printed parts not yet cured and hardened
・In addition, please read the instructions and guidelines of the manual carefully and follow those.

● Some of the samples in this catalogue are artificial renderings. ● Specifications, design and dimensions stated in this catalogue may be subject to change without notice (for technical improvements, etc). ● The corporate names and merchandise names written on this catalogue are the trademark or registered trademark of the respective corporations. ● Inkjet printers print using extremely fine dots, so colors may very slightly vary after replacement of the printing heads. Also note that if using multiple printer units, colors could vary slightly from one unit to other unit due to slight individual differences.

Our factory is certified according to ISO14001:2004

Mimaki

Roll to Roll LEDUV-Inkjet Printer
UJV500-160

Product Brochure

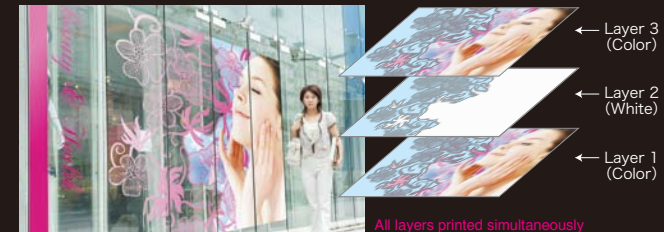**High productivity and high weatherability Inkjet print signage**

MAX 60㎡/h

LED UV

High
Speed

High
Quality

User & Eco
Friendly

High Speed LED-UV ink:LUS-150

C M Y K + W

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.
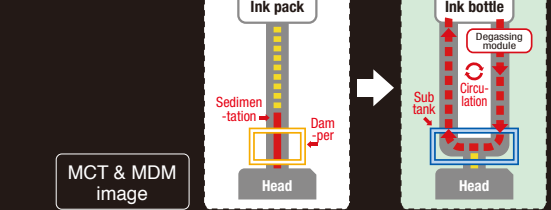
Instantly dry, 3 layer white ink

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.

← Layer 3 (Color)
← Layer 2 (White)
← Layer 1 (Color)

All layers printed simultaneously

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.

Existing product
Ink pack
Sedimen-tation
Damper
Head
MCT & MDM image

UJV500-160
Ink bottle
Degassing module
Sub tank
Circu-lation
Head

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

for LUS-150 ink

Roll to Roll LEDUV-Inkjet Printer
UJV500-160

for LUS-200 ink

Outdoor durability is guaranteed by 3M™MCS™Warranty

Outdoor durability in warranty and 200% flexibility for vehicle wraps
C M Y K

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.
①Outdoor durability is guaranteed.
②When 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.

3M
3M™ MCS™ Warranty

* 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.

Let's go to new tomorrow

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 60㎡/h

Newly developed print head

The UJV500-160 can print at high speeds up to 60 ㎡/h. A speed of 24 ㎡/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 C M Y K

High Speed	300×450HQ	6P Bi/Normal	60㎡/h
Production	600×600dpi	8P Bi/Hi	45㎡/h
Standard	600×900dpi	12P Bi/Hi	30㎡/h
High Resolution	1200×1200dpi	16P Bi/Hi	12㎡/h

4-color + white ink set C M Y K + W W

High Speed	300×450HQ 12P Bi/Normal	White	30㎡/h
		2Layer	15㎡/h
		3Layer	10㎡/h
Production	600×600dpi 16P Bi/Hi	White	23㎡/h
		2Layer	11.5㎡/h
		3Layer	7.5㎡/h
Standard	600×900dpi 24P Bi/Hi	White	15㎡/h
		2Layer	7.5㎡/h
		3Layer	5㎡/h
High Resolution	1200×1200dpi 32P Bi/Hi	White	6㎡/h
		2Layer	3㎡/h
		3Layer	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

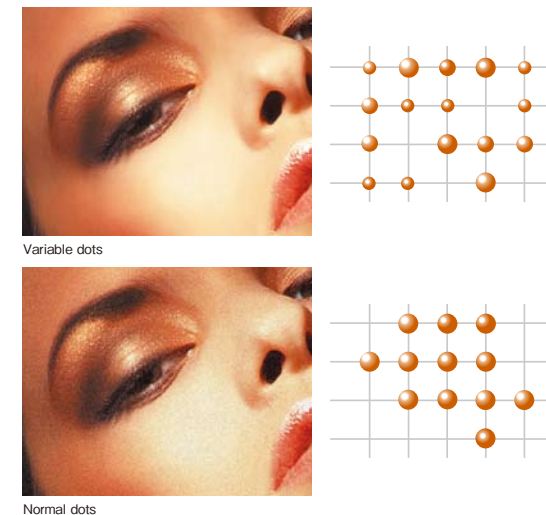### "MAPS" - a mask pattern that reduces banding

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)

Normal pattern
MAPS

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.

Variable dots
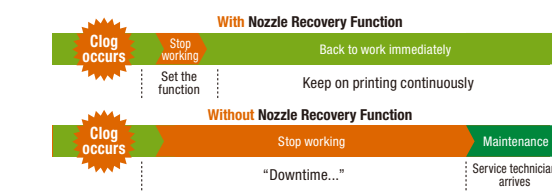
Normal dots

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.

With Nozzle Recovery Function
Clog occurs — Stop working — Back to work immediately
Set the function — Keep on printing continuously

Without Nozzle Recovery Function
Clog occurs — Stop working — Maintenance
"Downtime..." — Service technician arrives

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

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.

Refill inks with bottles
Ink Station

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