Roll to Roll LEDUV-Inkjet Printer

UJV500-160



Product Brochure



High productivity and high weatherability Inkjet print signage









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.





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.

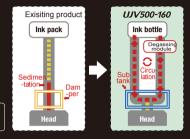


White ink circulation system: MCT

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.

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

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.





meriti

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.
- 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.





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





High Speed

Max Speed 60 m²/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 m²/h

Newly developed print head

The UJV500-160 can print at high speeds up to 60 m³/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)

Print Speed

4-color ink set 000 Y C



4-color + white ink set **3 3 Y 8 9 9**



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 Ouality 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.

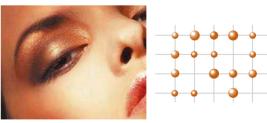
* Depending on the setting of MAPS, print speed varies. (MAPS = Mlmaki Advanced Pass System)





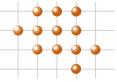
Smooth and beautiful gradation is achieved with Mimaki's unique head control technique

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



Variable dots





Normal dots

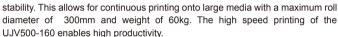


High Quality

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



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



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.

8 MDM = Mimaki Degassing Module



User & Eco Friendly





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



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

図 図ホワイトインク3層プリントの設定も簡単



☑ 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.



图 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.



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

Item		UJV500-160 for LUS-150 ink	UJV500-160 for LUS-200 ink	
Head		On-demand Piezo head (6 printheads with 3 staggered configuratio n)		
Print width		297mm ~ 1,610 mm		
Print resolution		300dpi, 600dpi, 900dpi, 1,200dpi		
Ink	Туре	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 \sim 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 inteligent 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 $\pm0.3\%$ from specified print distance		
	Repeatability	\pm 0.2 mm or \pm 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	Temperature	15 ⊠ - 3	30 ⊠	
environment(*3)	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	1 litter ink bottle			
Magenta	LUS20-M-BA				
Yellow	LUS20-Y-BA				
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	1 litter ink bottle			
Magenta	LUS20-M-BA				
Yellow	LUS20-Y-BA				
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 Stat As ink flexibility of LUS-150,LUS-200 may vary according to the Station 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 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 ma terials beforehand or ask your sales representative.



You are dealing with UV light sources that may harm your health . Please follow below guidelines strictly Tou are usefully will not vigit sources that may alwin your leads in . Flease longible proteins staticity. 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.

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