For
SIGN
GRAPHICS

Roll-to-Roll LED-UV Curable Inkjet Printer

UJV100-160

Mimaki™

NEW! Newly developed UV LED Inks LUS-190

Mimaki LUS-190 is an environmentally-friendly ink that offers three configurations to suit your business needs.

The six colours of C, M, Y, K, W, Cl (*1) are prepared to be able to choose one combination from three ink sets (CMYK, CMYK + W, CMYK + WCl) to suit your job. The selection of white ink of high density and opacity and the glossy clear ink are suitable for a wide range of applications : the printability on transparent / coloured media and the varnished print with high design properties.

In addition, our inks have acquired "GREENGUARD Gold certification", which is guaranteed to be suitable for schools and medical institutions based on the strictest chemical substance diffusion standards in the world.
This ink generates almost no VOC (*2)(*3), the cause of photochemical oxidant generation, and is designed to reduce load to the global environment.

GREENGUARD GOLD

VOC Free

*1 : Clear ink will be available at a later date. *2 : VOC=Volatile organic compounds
*3 : No volatile organic compounds are generated after UV curing by our internal investigation, but may occur very slightly before curing.

■ Specifications

Item		UJV100-160
Print head		On-demand piezo head (2 staggered layout)
Print resolution		360 dpi, 720 dpi, 900 dpi, 1200 dpi
Ink	Type	UV curable ink “LUS-190” (C,M,Y,K,W,CL)
	Colour	CMYK / CMYKW / CMYKWCL
	Capacity	1L (Bottle supply)
Maximum printable area		1,610 mm
Maximum media width		1,620 mm
Media thickness		1.0 mm or less
External diameter of media		Φ 250 mm or less
Media weight		45 kg or less
Interface		USB 2.0 / Ethernet 1000BASE-T
Power		Single-phase AC 100-120 V/ 200 -240 V ±10 % 50/60 Hz ± 1 Hz
Power consumption		AC 100 V :1.44 kW ore less / AC 200 V : 1.92 kW or less
Operational environment		Temperature: 20 - 30 degC Humidity: 35 - 65%Rh (without condensation)
Dimensions (W x D x H)		2,775 x 700 x 1,475 mm
Weight		167 kg or less

■ Supplies

	Colour	Item code	Remarks
LUS-190 UV ink	Cyan	LUS19-C-BA	1L bottle
	Magenta	LUS19-M-BA	
	Yellow	LUS19-Y-BA	
	Black	LUS19-K-BA	
	White	LUS19-W-BA	
	Clear (*)	LUS19-CL-BA	

* Clear ink will be available at a later date.

■ Software

Raster Link 7*

Functions with ultimate usability

- New HARLEQUIN RIP core for more accurate handling of PDF files with drop shadows and transparencies
- Up to 25% faster processing of complex PDF files
- Variable Data Printing to easily create a series of prints with dynamic variations
- Registering “favorites” in the preferences to shorten operation time

* Available from February 2021

Ethernet supported!

Create a free and efficient working environment

e.g.
Editing print data on an office PC and send the data to print directly to a printer at the work site

⚠ Inks and substrates:

- Please note that properties and adhesion, weather resistance, etc. of ink and substrates can vary. Please test materials before printing.

⚠ Safety notice:

These printers produce UV radiation. To protect your health, please observe the following guidelines carefully:

- Do not look directly into the UV light source, or expose your skin (such as your hands) directly to the UV light source.
- Depending upon the print mode, some VOCs could be emitted from printed area not yet cured and hardened.
- In addition, please read and follow the instructions and guidelines of the manual carefully.

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Mimaki Green Technology

ENERGY STAR

GREENGUARD GOLD

Ready to GO!

Fully-equipped with the latest functions for Mimaki Quality

Advanced Mimaki print technology for high image quality,
stable operation, high productivity, and improved usability

UJV100-160

Reliable functions of UJV100-160 for Mimaki Quality

DAS (Dot Adjustment System) *NEW!*

DAS is a new feature that automates conventional dot placement (dot position and feeding correction) for maximum image quality, saving operators time and reducing manual errors.

After changing media and printing conditions, the ink dot position and media feeding amount must be adjusted accordingly. The new DAS function automatically does this, eliminating the need for manual labor and reducing the possibility of manual errors.(*1)

DAS

DAS prints a dedicated pattern onto the media, which is then read by the sensor mounted on the carriage to automatically adjust:
- Dot position (Dot jetting position at the bi-direction)
- Feeding amount (Media feeding amount)

* 1 : DAS may not be able to automatically adjust some media.


Improper dot position


Overlap/Black streaks
(Insufficient feeding amount)


Gap/White streaks
(Excessive feeding amount)

With DAS

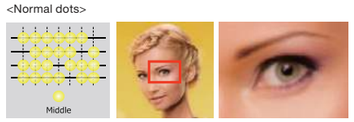

Proper dot position and feeding amount

Minimum ink dot size of 4pl

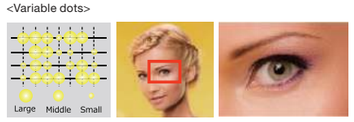
Beautiful print results without a grainy appearance

Three different ink dot sizes ensure fantastic image quality without a grainy appearance.

<Normal dots>



<Variable dots>



Dots are combined with the minimum size of 4pl to enable smooth colour printing with less granular feeling.

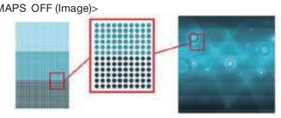
"MAPS4" supported

(Mimaki Advanced Pass System)

Banding reduction function

By printing the border of the path in a gradation tone, banding (horizontal stripes), uneven colour, and glossy stripes are reduced to achieve smooth printing.

<MAPS OFF (Image)>



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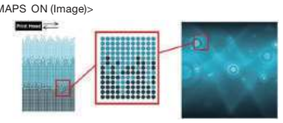
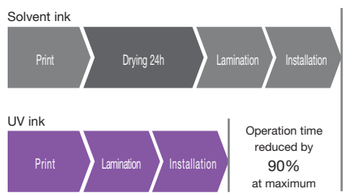


Based on printing conditions such as media/ink type and resolution, the most suitable gradation pattern is automatically selected and printed.

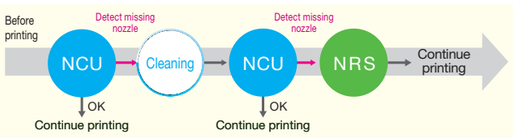
No drying time

The ink is instantly cured by UV irradiation, so you can start the next process (e.g. lamination) immediately after printing, without having to wait for the ink to dry.



NCU/NRS employed to monitor missing nozzles

The sensor automatically detects the condition of nozzles. When the NCU (Nozzle Check Unit) detects a missing nozzle, it automatically performs cleaning. If there is a nozzle problem left unsolved by the cleaning, NRS (Nozzle Recovery System) automatically replaces the defective nozzles with other nozzles, and enables users to continue their operation without waiting for service personnel.

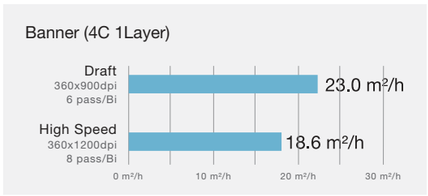


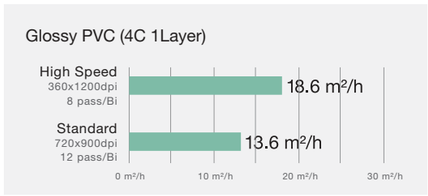
High productivity

Print speed

Banner 23.0 m²/h

Glossy PVC 18.6 m²/h





Ink set: 4C (CMYK)

Reliable productivity that can respond to sudden requests of printing job with high-speed printing

More unique advantages of UV-curable inks

Unparalleled media versatility

In addition to PVC and banner, fabric and paper without ink receiving layer are possible to print, which are difficult to do with solvent or latex inks. Printing on PET film is also available.(*2) This unparalleled media versatility allows you to diversify your products.

*2 : Pre-evaluation is recommended.

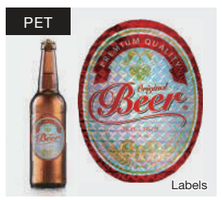
PVC


Sign

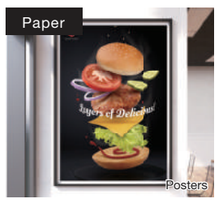

Stickers


Backlit

PET


Labels

Paper


Posters

Cloth


Soft sign

White ink for high value-added print with diverse powers of expression

By applying white ink, it is possible to print on transparent media and colored media(*3) to obtain a wider range of expressions. Beautiful finishing of high density white ink gives an excellent printability for sign displays such as light box in stations and commercial facilities, window displays, indoor signs, decorations, POP displays, etc.

*3 : Applied to 2 layers printing but not applied to printing more than 2 layers such as 'White - Colour - White'


Window sign


Backlit


Floor sign

POP

Tapestry


Package