

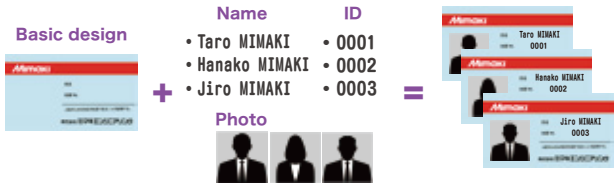


Combination of upgraded usability and functionality

1 PDF data with a lot of special effects embedded



3 Variable print function



Print speed

Glossy PVC 4C				Transparent media 4C+W			
Print mode		Print speed(ml/h)		Print mode		Print speed(ml/h)	
High Speed	360x1200 8P	Bi	18.6	High Speed	360x1200 8P	Bi	9.3
Standard	720x900 12P	Bi	13.6	Standard	720x900 12P	Bi	6.8
Quality	720x900 16P	Bi	10.0	Quality	720x900 16P	Bi	5.0
High Quality	1200x1200 16P	Bi	7.0	High Quality	1200x1200 16P	Bi	3.5

The print speed by the printer of 6C (CMYKWC) ink set is same as the above 4C+W.

Specifications

Item		UJV100-160
Print head		On-demand piezo head (double head staggered layout)
Printing resolution		360 dpi, 720 dpi, 900 dpi, 1200dpi
Ink	Type/Color	UV-curable ink LUS-170(C,M,Y,K,W,CL)
	Capacity	1L bottle
Maximum drawing range		1,610 mm (63 in)
Media	Maximum width	1,620 mm (64 in)
	Thickness	1.0 mm or lower
	Roll diameter	φ250 mm or less
	Roll weight	45kg (99 lb) or less
Interface		USB2.0 / Ethernet
Power specifications		Single-phase AC100-120V / AC200-240V±10%, 50/60Hz±1Hz
Power consumption		AC100V: 1,440 kW or less / AC200V: 1.92kW or less
Operational environment		Temperature: 20-30 degC (68-86 degF) Humidity: 35-65%Rh (without condensation)
External dimensions (WxDxH)		2,775 x 700 x 1,475 mm (109 x 28 x 58 in)
Main unit weight		167 kg (368 lb)

Inks and substrates:

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

- Some examples shown in this catalog are artificial renderings.
- Specifications, designs and dimensions shown in this catalog may be subject to change without notice for technical improvements.
- The corporate and merchandise names in this catalog are the trademarks or registered trademarks of the respective corporations.
- Inkjet printers use extremely fine dots, so colors may vary slightly after replacement of print heads.
- Also note that when using multiple printer units, colors could vary slightly from one unit to another due to slight individual differences.
- Please note that descriptions and data in this catalog are as of September 2022.

**Mimaki** MIMAKI ENGINEERING CO., LTD.  
2182-3 Shigeno-otsu, Tomi-city, Nagano 389-0512, Japan  
Tel. +81-268-64-2281

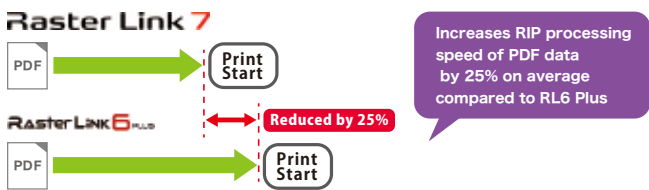
Mimaki Global Network

USA MIMAKI USA, INC.  
Brazil MIMAKI BRASIL COMERCIO E IMPORTACAO LTDA  
India MIMAKI INDIA PRIVATE LIMITED  
Taiwan MIMAKI ENGINEERING (TAIWAN) CO.,LTD.  
Singapore MIMAKI SINGAPORE PTE. LTD.

Europe MIMAKI EUROPE B.V.  
Indonesia PT. MIMAKI INDONESIA  
Australia MIMAKI AUSTRALIA PTY. LTD.  
China SHANGHAI MIMAKI TRADING CO.,LTD.  
Thailand MIMAKI (THAILAND) CO.,LTD.

- Improves reproducibility of special effects (such as transparency) of PDF data
- Increases RIP processing speed of PDF data by 25% on average
- Prints out the variable data by Variable print function
- Displays frequently used setting and pop-up windows

2 Increases RIP processing speed of PDF data by 25% on average



4 Easy-to-check displays



Details of "favorite settings" can be checked on the dedicated screen

Displays pop-up window at an error

Tarpaulin 4C				Synthetic paper 4C			
Print mode		Print speed(ml/h)		Print mode		Print speed(ml/h)	
Draft	300x900 6P	Bi	23.0	Draft	300x900 6P	Bi	23.0
High Speed	360x1200 8P	Bi	18.6	High Speed	360x1200 8P	Bi	18.6
Standard	720x900 12P	Bi	13.6	Standard	720x900 12P	Bi	13.6
High Quality	1200x1200 16P	Bi	7.0	High Quality	1200x1200 16P	Bi	7.0

Supplies

	Color	Item code	Remarks
LUS-170 UV ink GREENGUARD Gold certificated ink	Cyan	LUS17-C-BA	1L bottle
	Magenta	LUS17-M-BA	
	Yellow	LUS17-Y-BA	
	Black	LUS17-K-BA	
	White	LUS17-W-BA	
	Clear	LUS17-CL-BA	

The LUS-170 has 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 (\*1)(\*2), which is the cause of photochemical oxidant generation, and is designed to reduce load to the global environment.

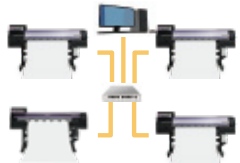


- \*1 : VOC=Volatile organic compounds
- \*2 : No volatile organic compounds are generated after UV curing by our internal investigation, but may occur very slightly before curing.

Ethernet supported!

Creat a free and efficient working environment

Ex.  
Print data editing on an office PC  
to send the data to print directly  
to a printer at the work site



For  
SIGN  
GRAPHICS

Roll-to-Roll LED-UV Curable Inkjet Printer

UJV100-160



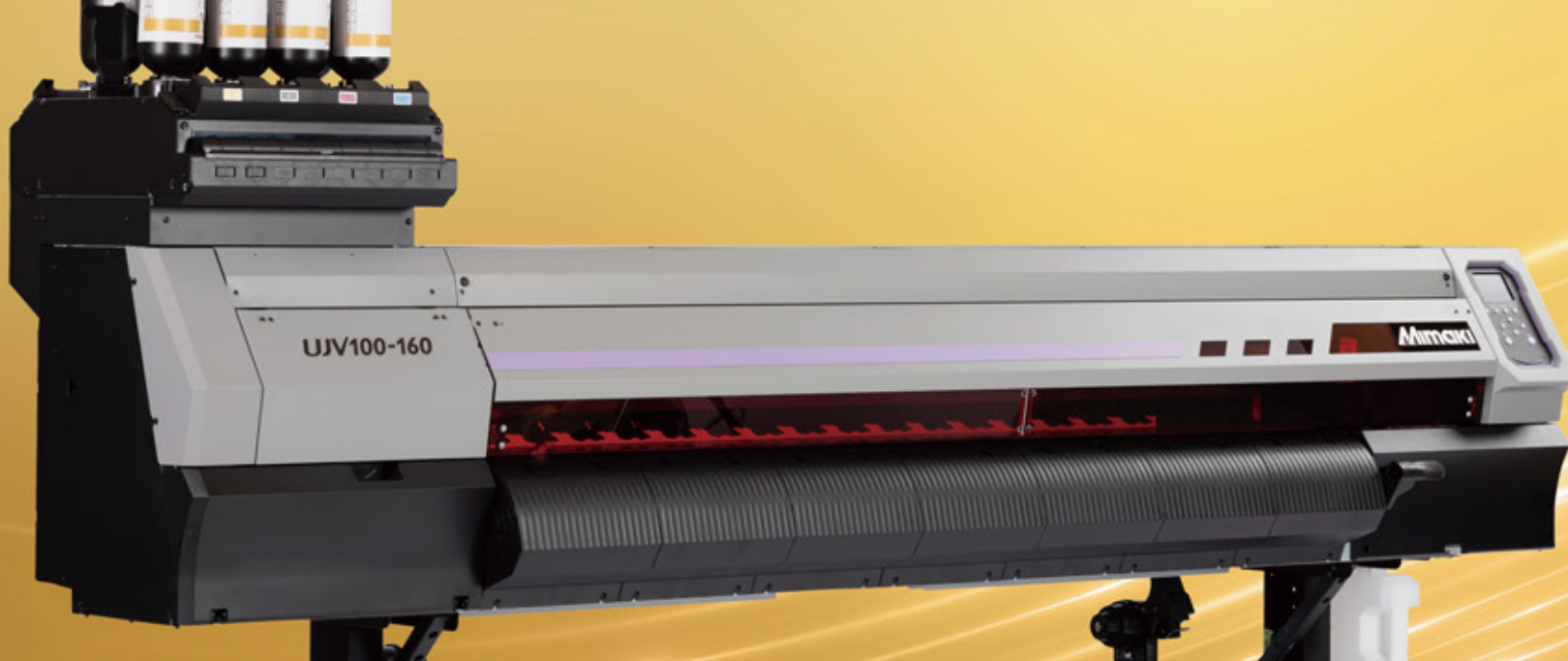
Expert printing made easy.



**Mimaki**  
Green Technology







# UJV100-160 Expert printing made easy.

The UJV100-160 is a high-speed UV LED inkjet printer mounted with two newly developed printheads to deliver high image quality with max. print resolution of 1200 dpi and max. print speed of 23m<sup>2</sup>/h.\* It is equipped with the DAS (Dot Adjustment System), which automatically adjusts the media setting and various other functions that make it possible to execute a fine and stable output with simple operations, based on more than 15 years of experience and knowledge of Mimaki, an expert in UV printing technology, while focusing on image quality and productivity. Since the LUS-170 UV curable ink for UJV100-160 can be processed without waiting for the drying time, so indoor signs, POPs and stickers can be finished quickly and also suitable for high visibility window displays, decorative transparent acrylic panels, and vivid signage such as light boxes. It can be used with commercially available media like paper and PET film without an ink receiving layer, which helps to reduce the material cost. Furthermore, this ink is VOC-free and environmentally friendly. The UJV100-160 is well-balanced in every aspect of productivity, operability, work efficiency, and environmental friendliness at an affordable price, and will contribute greatly to the expansion of your business.

\* Print speed by 4C at draft mode (360x900 dpi 6P Bi)

## Reliable functions pursuing "Quality x Usability x Stability"

### DAS (Dot Adjustment System)

The function to adjust automatically the dot position and the feed amount that affect print quality as the standard equipment.

After changing a media and a printing condition, the ink dot position and media feeding amount must be adjusted accordingly. Since DAS automatically applies them, printing can be performed without labor and variation of adjustment by the operator (\*1).

\* 1 : Some media cannot be automatically applied.

#### DAS

It is the function to print a dedicated pattern to the media and read by the sensor mounted on the carriage to adjust automatically:

- Dot position (Dot jetting position at the bi-direction)
- Feeding amount (Media feeding amount)



Improper dot position



Overlap/Black streaks  
(Insufficient feeding amount)



Gap/White streaks  
(Excessive feeding amount)



Proper dot position and feeding amount

## High productivity leads to work efficiency and new applications

As immediately cured by UV irradiation after printing, it does not need the drying time required for water-based inks and solvent inks. Thanks to the high printing speed and no loss of drying time, the work efficiency is dramatically improved to be possible to handle sudden jobs. This will give you a time for other works or considering a new proposition added value to expand your business.

### High speed print !

Reliable production capacity that responds firmly to urgent requests with high-speed printing.

**Glossy PVC 18.6 m<sup>2</sup>/h**  
**Transparent media 9.3 m<sup>2</sup>/h**



### Possible to print & install on the same day

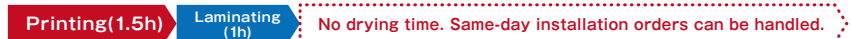
Swift post-processing after printing since no drying time is required

UV curable ink of no drying process because the ink is instantly cured by UV light irradiating. Since post-processing & construction can be performed immediately, shortened production time and high productivity can lead to handle jobs with short delivery time.

For a solvent printer



For UJV100-160

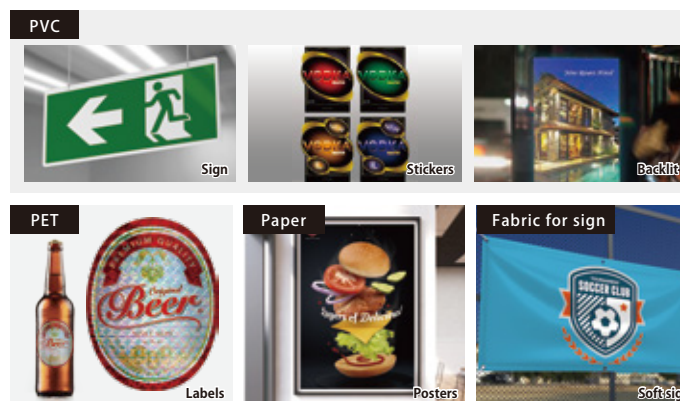


## Go for new business applications with wide-spread expressiveness with UV curable ink printing

### Abundance of available media materials

In addition to PVC and tarpaulin, fabric and paper without ink receiving layer are possible to print, which are difficult with solvent ink or latex ink. Printing on PET film is also available. (\*2) A variety of proposals to clients are available by the high versatility for media.

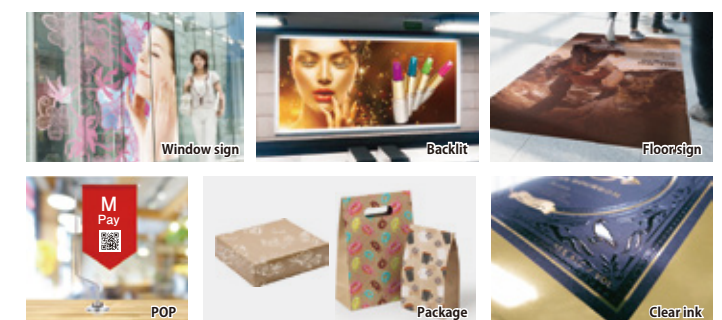
\*2 : Be sure to perform a pre-evaluation.



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

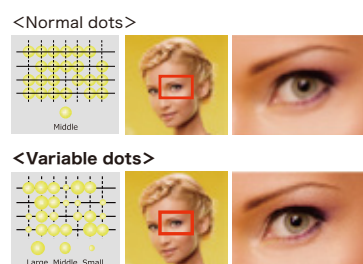
By applying white ink, it is possible to print on transparent media and colored media (\*3) to obtain a wider range of expression. Clear ink as well enables to show a highly-designed expression.

\*3: Applied to 2 layers printing but not to more than 2 layers such as "White -Color-White".



### Minimum ink size 4pl Beautiful print of less granularity feeling

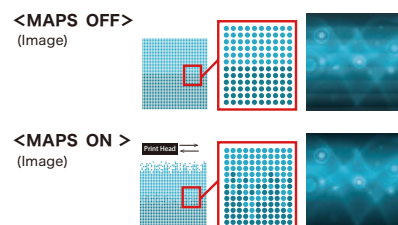
Three different ink dot sizes are used in printing to enable high-quality print with reduced granular feeling.



Dots are combined with the minimum size of 4pl to enable smooth color 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 color, and glossy stripes are reduced to achieve smooth printing.



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

### 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.

