


For
SIGN
GRAPHICS

Roll-to-Roll LED-UV Curable Inkjet Printer

UJV100-160Plus

Mimaki

Standard RIP Software

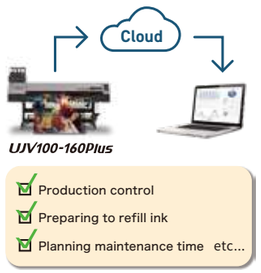
Raster Link 7

Supporting the beauty of prints and operability

- Ink Saving Function - Easy to operate for everyone
- Supports cut data output to our entry model cutting plotter, the CG-AR series

Mimaki Cloud Technology **PICT**

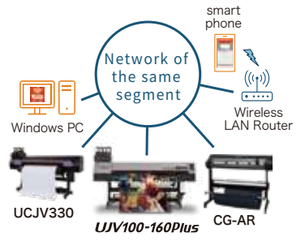
The printer's operating status and ink usage can be monitored even when the user is away from the printer. It supports planned operations, such as performing other tasks while printing is in progress. It also enables advanced planning of maintenance schedules and preparation for ink refills.



Operate machines remotely

MRA
(Mimaki Remote Access)

List ink type, heater temperature, and notification alerts on a smartphone or Windows-based PC. The machine can be operated remotely with the same feeling as the control panel of the actual machine.



■ Print speed

①Gloss PVC in 4-Color Set				②Banner・Synthetic paper 4-color Set				③Transparent Film 4C + W/CL Set 1or2 layer (No Pull-back printing)				④Transparent Film 4C + W/CL Set 2or3 layer (Pull-back printing in use)			
Print Mode			Print Speed(㎡/h)	Print Mode			Print Speed(㎡/h)	Print Mode			Print Speed(㎡/h)	Print Mode			Print Speed(㎡/h)
High Speed	360×1200 8P	Bi	18.6	Draft	300×900 6P	Bi	23.0	High Speed	360×1200 8P	Bi	9.3	High Speed	360×1200 8P	Bi	4.7
Standard	720×900 12P	Bi	13.6	High Speed	360×1200 8P	Bi	18.6	Standard	720×900 12P	Bi	6.8	Standard	720×900 8P	Bi	3.4
Quality	720×900 16P	Bi	10.0	Standard	720×900 12P	Bi	13.6	Quality	720×900 16P	Bi	5.0	Quality	720×900 16P	Bi	2.5
High Quality	1200×1200 16P	Bi	7.0	High Quality	1200×1200 16P	Bi	7.0	High Quality	1200×1200 16P	Bi	3.5	High Quality	1200×1200 16P	Bi	1.8

*Print speed is half of the above figure when printing①② in 4C + W/CL Set

*Media pull-back operation time and RIP time after pull-back are excluded

■ Specifications

Item		UJV100-160Plus
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, LUS-190, LUS-210 (C,M,Y,K,W,CL) *Availability varies depending on the regions
	Capacity	1L bottle
Maximum drawing range		1,610 mm (63 in)
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
Inner diameter		2 inch / 3 inch
Interface		USB 2.0 / Ethernet 1000BASE-T
Power specifications		Single-phase AC100-120V±10%/12A, AC200-240V±10%/8A, 50/60Hz±1Hz
Power consumption		Maximum 500W (operating), 4.5W (sleep)
Operational environment		Temperature: 20-30 degC (68-86 degF) Humidity: 35-65%Rh (without condensation)
Certifications		VCCI-class A, FCC class A, ETL IEC62368-1, CE Marking (EMC, Machinery Directive, Low voltage, RoHS) CB, REACH, Energy Star, RCM, EAC
External dimensions (WxDxH)		2,775 x 700 x 1,475 mm (109 x 28 x 58 in)
Main unit weight		167 kg (368 lb)

■ 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	
LUS-190 UV ink GREENGUARD Gold certificated 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	
LUS-210 UV ink GREENGUARD Gold certificated ink	Cyan	LUS21-C-BA	1L bottle
	Magenta	LUS21-M-BA	
	Yellow	LUS21-Y-BA	
	Black	LUS21-K-BA	
	White	LUS21-W-BA	
	Clear	LUS21-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.

⚠ 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.

●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 October 2023.

DIGITAL GRAPHIC SYSTEMS

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Mimaki Green Technology

ENERGY STAR

GREENGUARD GOLD

UJV100-160Plus Expert printing made easy.

UV is Eco, an environmentally and people-friendly choice.

Printers that use UV-LEDs are extremely energy-efficient and environmentally friendly.
Efficient energy use leads to lower CO2 emissions and contributes to business sustainability.
The printer is also operator-friendly, using GREENGUARD-GOLD certified ink
that generates almost no substances that may affect the human body.

Pursue business efficiency and diversity with UV

Substrates printed using UV inks can be post-processed immediately after printing,
such as lamination and cutting.
The printer also supports a variety of substrates, including transparent film or paper without a receiving layer.
Furthermore, the combination of white and clear inks greatly expands the range of applications.

3 new features

Ink Saving Function

Reduce ink usage while maintaining color balance

Ink usage is reduced by up to 50% while maintaining the natural color gradation of the design. In addition to power costs, the UJV100-160Plus is a user-friendly, sustainable unit that reduces ink costs through simple operation.

Ink Saving OFF	Ink Saving Lv.3	Ink Saving Lv.5
(Standard Print)	(Approx. 30% saving)	(Approx. 50% saving)

[CAUTION]
Since the Ink Saving Function replaces CMY ink with K, graininess may be noticeable in some data.
Please change the ink saving level according to the nature of your work.

Pull-Back Printing Function

Up to 3-layer printing - Express your ideas freely

2-Layer Print Both printing orders are possible regardless of the ink set orders

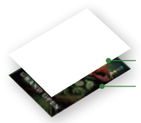
● Vivid expression on colored substrates

White ▸▸▸ Color

Application : Labels

● Vivid expressions on transparent substrates

Color ▸▸▸ White



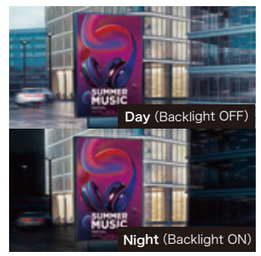
Application : Window Graphics

3-Layer Print Even more versatile expressions with the Pull-Back Print Function

● Faithful color representation for day and night

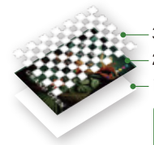
Color ▸▸▸ White ▸▸▸ Color

Application : Backlit Signage



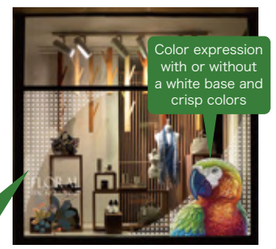
● A variety of expressions in one piece

White ▸▸▸ Color ▸▸▸ Clear



Clear (matte) and frosted glass-like expression

Application : Window Signage



Direct cut data output from RasterLink7 to the CG-AR vinyl cutter

Convenient printer and plotter interlocking for improved usability

Print + cut linkage is possible even if the output PC does not have DTP software.
Improved work efficiency by eliminating the need to launch dedicated cutting software

Labels

Wobblers

Floor Signage

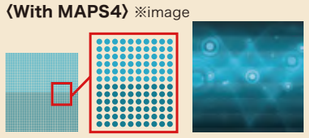
Mimaki's technology pursues high quality, operability and stable production

High Quality Stable high density x quality

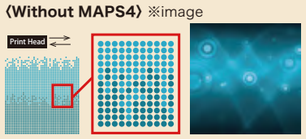
MAPS4：Mimaki Advanced Pass System

The printing pass borders are printed in a gradation style to achieve smooth printing even at high densities.
Automatically optimizes output according to printing conditions

〈With MAPS4〉 ※image



〈Without MAPS4〉 ※image



Operability Reproduces standard image quality, achievable at a beginner operator level

DAS：Dot Adjustment System

Automatically performs necessary adjustments when media or print conditions are changed. Supports print output by reducing labor and operator adjustment variation.

Blurring due to dot misalignment / Overlapping lines by feed-error / Gaps due to feed-error

Automatic adjustment by DAS

Stable operation Even in case of nozzle trouble Continuous output without waste

NCU & NRS

NCU (Nozzle Check Unit)
A sensor detects nozzle defect and nozzle cleaning performed automatically to reduce the material waste.

NRS (Nozzle Recovery System)
Supports continous production without waiting for service personnel, when nozzle defect is unrecovereble by nozzle cleaning.

*The function may be limited by missing-nozzle position and amount