

Mimaki
AUTHORISED PARTNER

UJV100-160Plus

Roll-to-Roll LED-UV
Curable Inkjet Printer

EXPERT PRINTING
MADE EASY



Width:1.6m

شركة النجم الرقمي للألات و المعدات
DIGITAL STAR MACHINERY AND EQUIPMENTS

SOURCE OF DIGITAL SOLUTIONS

Welcome to Digital Star, your trusted partner in the world of cutting-edge printing solutions. As a leading printing machines, materials, and ink authorized dealer in Riyadh – Saudi Arabia (KSA), we pride ourselves on delivering state-of-the-art technology that empowers to achieve unparalleled levels of efficiency and quality.

At Digital Star, we understand the pivotal role that printing machinery plays in the success of your operations. With a commitment to innovation and excellence, we curate a diverse range of top-tier printing machines to meet the unique needs of our clients. Our product line-up reflects the latest advancements in the industry.

As a responsible printing machines supplier, we prioritize sustainability. Our commitment to eco-friendly practices is reflected in the products we offer, promoting energy efficiency and environmentally conscious manufacturing processes. When you choose Digital Star, you're not just investing in cutting-edge technology – you're partnering with a company that values the planet as much as your success.

***Best A Grade Quality &
Innovative Products***

Ready To Go

Expert printing made easy.

Entry-level UV printer: Further evolution achieved with "Low Power Consumption" and "Three additional functions"

With a maximum power consumption of 0.5kW, UV printer "UJV100-160Plus" consumes approx. less than 20% power of eco-solvent and latex printers in the market*, helping print businesses reduce power costs and CO2 emissions.

The "UJV100-160Plus" has the basic functions of the conventional "UJV100-160" with three additional functions to expand the range of applications for customers, reduce running costs, and improve work efficiency.

CLOUD-BASED PRINTER STATUS MONITORING TOOL "PICT"

"PICT" supports customers in improving the efficiency of their printing operations and production management by enabling them to visualize the operational status & performance of their printers from a PC or mobile device, even from a remote location.



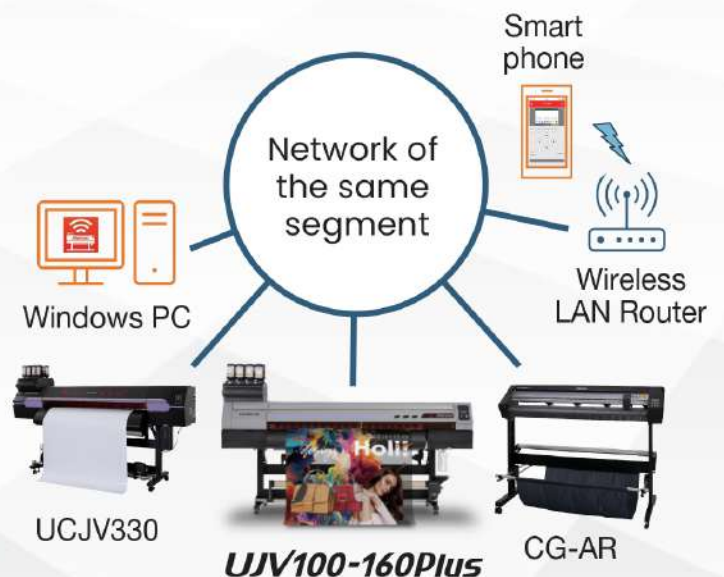
OPERATE MACHINES REMOTELY



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.



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.

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.

Ink Saving Function

Reduce ink usage while maintaining colour 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
(Standard Print)



Ink Saving
Lv.3
(Approx. 30% saving)



Ink Saving
Lv.5
(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

Application : Labels

White >>> Colour



2nd Layer : Colour
1st Layer : White



3-Layer Print

Even more versatile expressions with the Pull-Back Print Function

• Faithful color representation for day and night

Application : Backlit Signage

Colour >>> White >>> Colour



3rd Layer : Colour
2nd Layer : White
1st Layer : Colour



• Vivid expressions on transparent substrates

Application : Window Graphics

Colour >>> White



2nd Layer : White
1st Layer : Colour



• A variety of expressions in one piece

Application : Window Signage

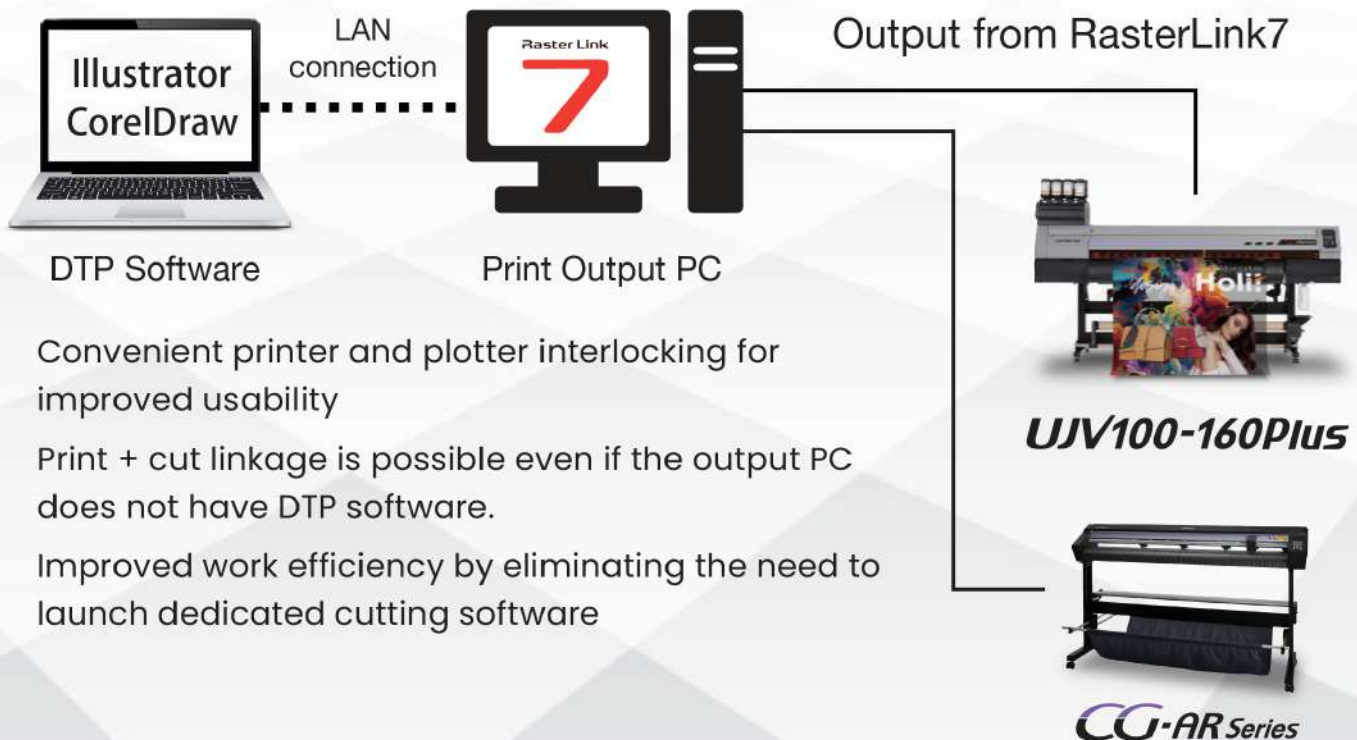
White >>> Colour >>> Clear



3rd Layer : Clear
2nd Layer : Colour
1st Layer : White
Clear (matte) and frosted glass-like expression



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

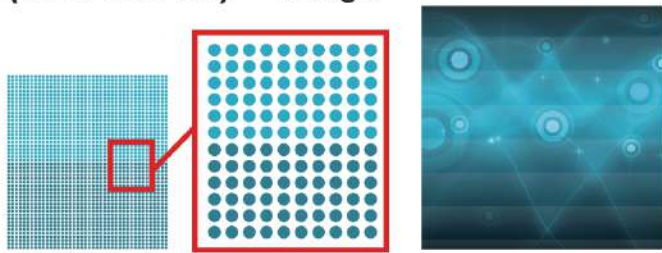
Mimaki's technology pursues high quality, operability and stable production

HIGH QUALITY

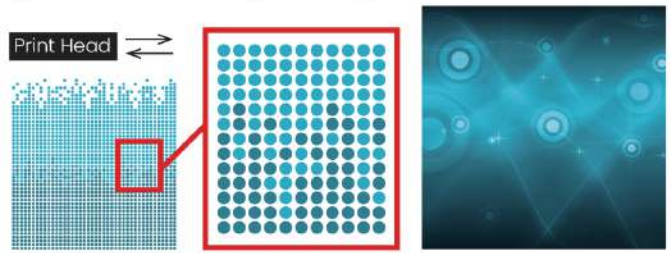
Stable high density x quality MAPS4 : Mimaki Advanced Pass System

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

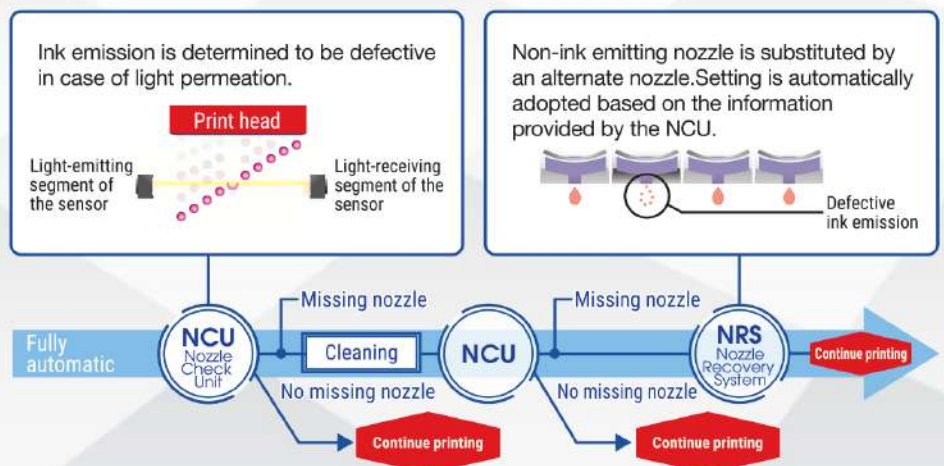
NCU (Nozzle Check Unit)

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 unrecoverable by nozzle cleaning.

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



Product Samples



Product Samples

Specification

| Item | | UJV100-160Plus |
|-----------------------------|-------------|--|
| Print head | | On-demand piezo head (double head staggered layout) |
| Printing resolution | | 360 dpi, 720 dpi, 900 dpi, 1200dpi |
| Ink | Type/Colour | 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°C (68-86°F) 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) |

*Specifications are subject to change without prior notice, all rights reserved.



Mimaki
Green Technology

■ Print speed

| [1] Gloss PVC in 4-Colour Set | | | |
|--------------------------------------|---------------|----|---------------------------------|
| Print Mode | | | Print Speed (m ² /h) |
| High Speed | 360×1200 8P | Bi | 18.6 |
| Standard | 720×900 12P | Bi | 13.6 |
| Quality | 720×900 16P | Bi | 10.0 |
| High Quality | 1200×1200 16P | Bi | 7.0 |

| [2] Banner Synthetic Paper 4-Color Set | | | |
|---|---------------|----|---------------------------------|
| Print Mode | | | Print Speed (m ² /h) |
| Draft | 300×900 6P | Bi | 23.0 |
| High Speed | 360×1200 8P | Bi | 18.6 |
| Standard | 720×900 12P | Bi | 13.6 |
| High Quality | 1200×1200 16P | Bi | 7.0 |

| [3] Transparent Film 4C + W/CL Set 1or2 layer (No Pull-Back printing) | | | |
|--|---------------|----|---------------------------------|
| Print Mode | | | Print Speed (m ² /h) |
| High Speed | 360×1200 8P | Bi | 9.3 |
| Standard | 720×900 12P | Bi | 6.8 |
| Quality | 720×900 16P | Bi | 5.0 |
| High Quality | 1200×1200 16P | Bi | 3.5 |

| [4] Transparent Film 4C + W/CL Set 2or3 layer (Pull-Back printing in use) | | | |
|--|---------------|----|---------------------------------|
| Print Mode | | | Print Speed (m ² /h) |
| High Speed | 360×1200 8P | Bi | 4.7 |
| Standard | 720×900 8P | Bi | 3.4 |
| Quality | 720×900 16P | Bi | 2.5 |
| High Quality | 1200×1200 16P | Bi | 1.8 |

*Print speed is half of the above figure when printing **[1] [2]** in 4C + W/CL Set

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

SYSTEM REQUIREMENTS (PC's)

| | |
|------------------------------------|--|
| Operating System* | Windows 10 (64 Bit) or Later |
| Processor | i7 - 2.6 GHz or faster |
| Memory (RAM) | Min. 8GB or More |
| Video Card and Monitor(VGA) | 1280x1024 or Higher Resolution is Recommended |
| Working Hard Disk Space | 1 TB SSD or more recommended |
| Graphics Card | 2GB or more (Optional) |
| Optical drive | DVD-ROM |
| Other requirements | Ethernet connection for network capable printers |
| | Available USB ports and PCIE Slot |
| Recommended Brand | Lenovo / Dell |

* Note: You can use a laptop or desktop computer

* Use the original operating system and software. If you are using pirated operating system or software, we are not responsible for any damage to Machine workings, and also the warranty terms will become void.

POWER REQUIREMENTS

| | |
|--------------------------|------------------|
| Voltage Regulator | 5000W Stabilizer |
|--------------------------|------------------|

Terms and Conditions

01. Payment to be made in SAR currency.
02. Payment Terms : As mentioned in Quotation.
03. Bank Charges: Any bank charges relevant to the above transactions will be to your account.
04. Any charges, duties, taxes or levies at the ports of entry will be to our account.
05. The charges of loading, boarding and local conveyance of the technician will be to our account.
06. Any required electrical, mechanical and civil site preparation should be done by the customer according to our engineer's requirements.
07. Digital Star Machinery and Equipments will not be held responsible for delays caused by any damage in the equipment due to shipment, unloading accidents & any related reasons, which is beyond our control.
08. Warranty will be 12 months from the date of installation from Digital Star Machinery and Equipments. Wear and tear, consumables are exempted and warranty can be claimed only if you use the Inks and Services from Digital Star Machinery and Equipments.
09. Service will be free of cost within 12 months from the date of installation.
10. Any claim will be invoice directly to you then we will send for claiming procedure which will take 45-60 days, if the claim got approved credit note will issued directly.
11. Delivery: As mentioned in quotation

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