Mimaki™

UJV100-160

GRAND BAZAAR

NEW! *Newly developed UV LED Ink LUS-210*

LUS-210 is an environmental-friendly ink, which is selectable from the three types of ink set combinations in accordance with your job.

The six colors 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 / colored media and the varnished print with high design properties.

In addition, LUS-210 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 (*2)(*3), which is the cause of photochemical oxidant generation, and is designed to reduce load to the global environment.

*1 : Clear ink will be supported later.   *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.

GREENGUARD GOLD
VOC Free

Ultimate machine filled with the Mimaki quality

UJV100-160

■ 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-210" (C,M,Y,K,W,CL)
	Color	CMYK ／ CMYKW ／ CMYKWCL
	Capacity	1L (Bottle supply)
Maximum printable area		1,610 mm (63.4 in)
Maximum media width		1,620 mm (63.8 in)
Media thickness		1.0 mm or less
External diameter of media		Φ 250 mm (9.8 in) or less
Media weight		45 kg (99.2 lb) 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 (68 - 86 degF) Humidity: 35 - 65%Rh (without condensation)
Dimensions (W x D x H)		2,775 x 700 x 1,475 mm (109.3 x 31.5 x 58.1 in)
Weight		167 kg (368.2 lb) or less

■ Supplies

	Color	Item code	Remarks
LUS-210 UV ink	Cyan	LUS21-C-BA	
	Magenta	LUS21-M-BA	
	Yellow	LUS21-Y-BA	1L bottle
	Black	LUS21-K-BA	
	White	LUS21-W-BA	
	Clear (*)	LUS21-CL-BA	

The LUS-210 is GREENGUARD Gold certification ink.   * Clear ink will be supported later.

■ Software

RasterLink6 PLUS

Functions with ultimate usability
◆ "Simple icon display" for intuitive and comprehensible operability
◆ Registering "favorites" in the preferences to shorten operation time

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

⚠ **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.

astragraphia
member of **ASTRA**

Mimaki
Green Technology

energy
ENERGY STAR

GREENGUARD GOLD
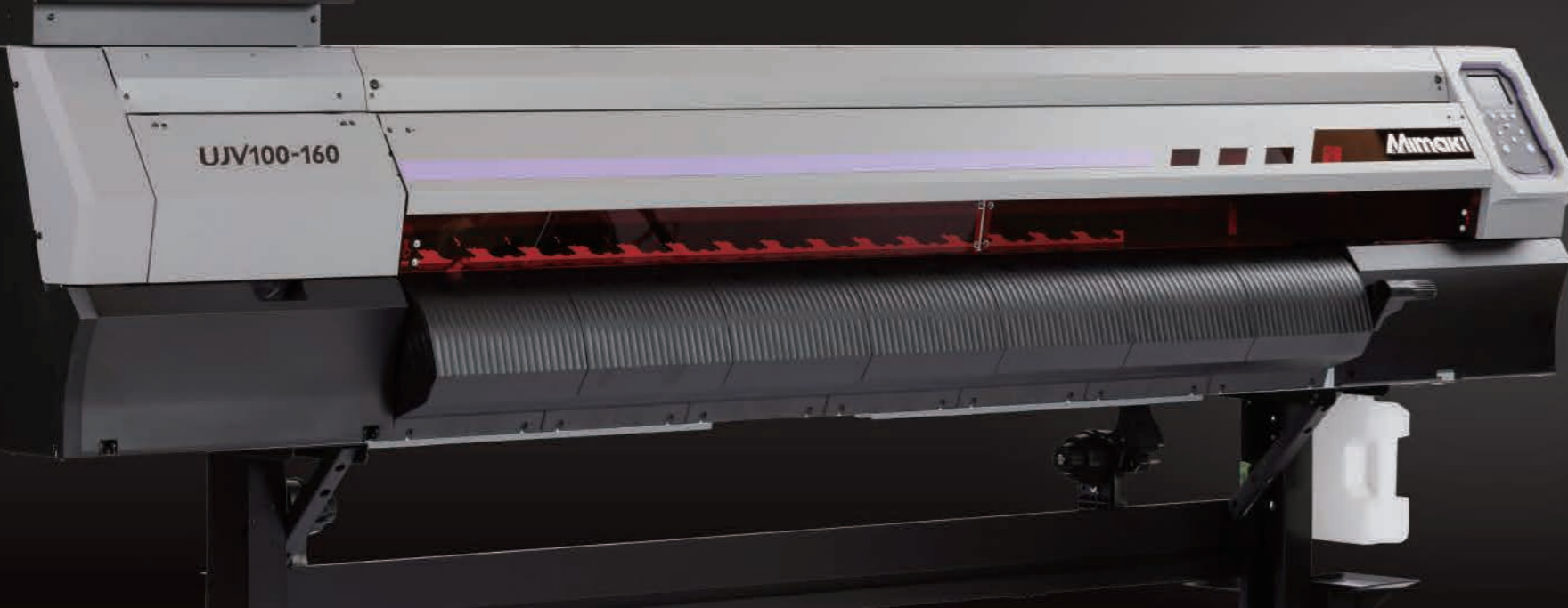
Ready to GO!

Fully equipped with the latest functions for Mimaki Quality

The unit of Mimaki 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: 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)
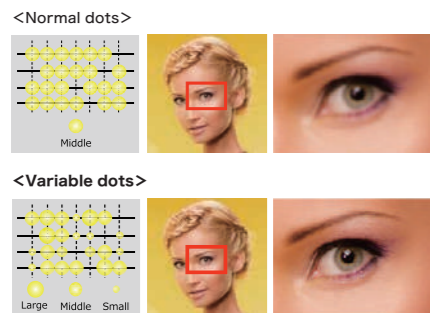- Feeding amount (Media feeding amount)

With DAS

Improper dot position
Overlap/Black streaks (Insufficient feeding amount)
Gap/White streaks (Excessive feeding amount)
Proper dot position and feeding amount

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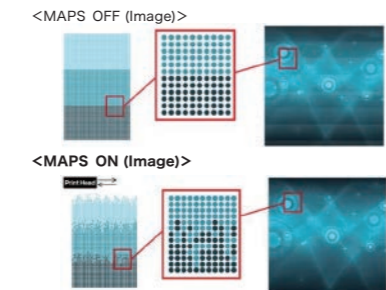### Beautiful print of less granularity feeling

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

<Normal dots>
Middle

<Variable dots>
Large Middle Small

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

"MAPS4" supported
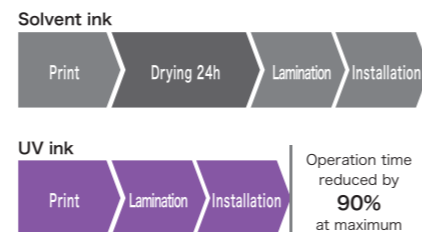(Mimaki Advanced Pass System)
Banding reduction function

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.

<MAPS OFF (Image)>

<MAPS ON (Image)>

Based on printing conditions such as media/ink type and resolution, the most suitable gradation pattern is automatically selected and printed.
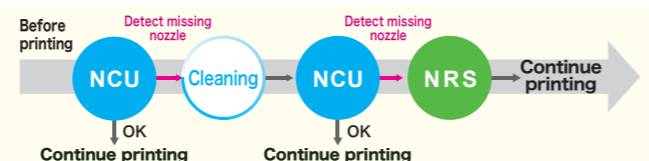
No drying time

You can start next process immediately like the lamination with no waiting for ink drying as the ink is cured by UV irradiation.

Solvent ink
Print → Drying 24h → Lamination → Installation

UV ink
Print → Lamination → Installation
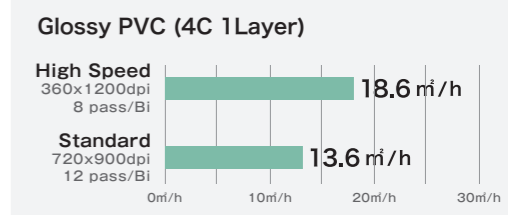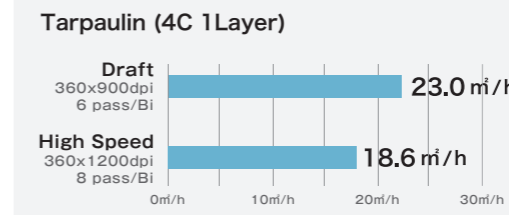Operation time reduced by **90%** at maximum

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.

Before printing
Detect missing nozzle
NCU — Cleaning — NCU — NRS → Continue printing
OK → Continue printing
Detect missing nozzle
OK → Continue printing

High productivity

Print speed
Tarpaulin 23.0 ㎡/h
Glossy PVC 18.6 ㎡/h

Tarpaulin (4C 1Layer)

Draft 360x900dpi 6 pass/Bi	23.0 ㎡/h
High Speed 360x1200dpi 8 pass/Bi	18.6 ㎡/h

0㎡/h 10㎡/h 20㎡/h 30㎡/h

Glossy PVC (4C 1Layer)

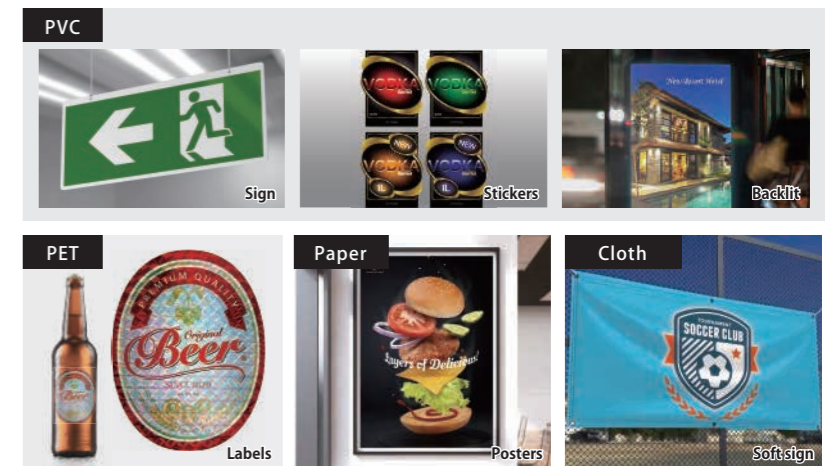|	
High Speed 360x1200dpi 8 pass/Bi	18.6 ㎡/h
Standard 720x900dpi 12 pass/Bi	13.6 ㎡/h

0㎡/h 10㎡/h 20㎡/h 30㎡/h

Ink set : 4C(CMYK)

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

The important features enabled by UV curable ink

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 versality for media.

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

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 expression.
Beautiful finishing of high density white ink gives an excellent printability for sign displays such as light box in stations and commercial facilities, window display, indoor sign, decoration, POP etc.

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

Window sign Backlit Floor sign

POP Tapestry Package