

3.2M Grand Format LED UV Inkjet Printer

SIJ-320UV

Mimaki™

For
SIGN
GRAPHICS

LUS-120: Newly developed, high-performance UV curing ink

The newly developed, high-performance LUS-120 UV curing ink possesses superior durability and flexibility. These two opposite properties provide beautiful and durable printing on flexible banner materials that cannot be laminated.

Specifications		SIJ-320UV
Item		
Head		On-demand piezo head (4 staggered printheads)
Print resolution		300 dpi, 600 dpi, 900 dpi and 1,200 dpi
Ink droplet size		Minimum: 7 pl Maximum: 36 pl
Head gap (Manual adjustment)		1.7 mm / 1.9 mm / 2.6 mm / 3.3 mm (Distance between the platen and the print head)
Ink	Type	LED-UV ink LUS-120
	Color	C, M, Y, K
	Packaging	1 liter ink bottle Ink can be filled up to 3 liters per ink container of the printer.
Maximum print width		3,200 mm
Maximum media width		3,250 mm (Twin rolls printing with a small drive shaft: 1,524 mm x 2)
Minimum media width		210 mm
Media thickness		1.0 mm or less
Roll outer diameter		Large drive shafts: Φ250 mm or less Small drive shaft with roll holders: Φ180 mm or less
Roll weight		Large drive shafts: 100 kg or less Small drive shaft with roll holders: 25 kg or less
Dimensions (W x D x H)		5,410 mm x 995 mm x 1,440 mm
Shipping dimensions (W x D x H)		5,750 mm x 1,140 mm x 1,210 mm
Weight		850 kg
Power supply		AC 200 – 240 V ± 10% 50/60 Hz ± 1 Hz, 15 A or less
Power consumption		3.6 kW or less
Operational environment	Temperature	20 – 30 °C (68 – 86 °F)
	Humidity	35 – 65%Rh (No condensing)
	Temperature accuracy	20 – 25 °C (68 – 77 °F)
	Temperature gradient	Less than ± 10 °C/h (± 18 °F/h)
	Dust	0.15 mg/m³ (Equivalent to normal office level)

Supplies			
Item	Color	Item No.	Remarks
LED-UV Ink LUS-120	Cyan	LUS12-C-BA	1L ink bottle *GREENGUARD Gold* Certification Ink
	Magenta	LUS12-M-BA	
	Yellow	LUS12-Y-BA	
	Black	LUS12-K-BA	

Options			
Item	Item No.	Remarks	
Soft media feeding kit	OPT-J0400		
SIJ small take-up unit	OPT-J0394		
Take-up roll holder unit	OPT-J0409		
3.2 m roll shaft unit	OPT-J0410		

Software RIP combining usability and high performance

Raster Link 6 *Bundled Item

●Some of the samples in this catalog are artificial renderings. ●Specifications, design and dimensions stated in this catalog may be subject to change without notice (for technical improvements, etc). ●The corporate names and merchandise names written on this catalog are the trademark or registered trademark of the respective corporations. ●Inkjet printers print using extremely fine dots, so colors may vary slightly after replacement of the printing heads. Also note that if using multiple printer units, colors could vary slightly from one unit to other unit due to slight individual differences.●Please note that descriptions and data in this catalog are as of December 2020.

Mimaki
mimaki.com

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

Mimaki Global Network

USA
Brazil
India
Taiwan
Singapore

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

Europe
Indonesia
Australia
China
Thailand

MIMAKI EUROPE B.V.
PT. MIMAKI INDONESIA
MIMAKI AUSTRALIA PTY. LTD.
SHANGHAI MIMAKI TRADING CO.,LTD.
MIMAKI (THAILAND) CO.,LTD.



Mimaki
Green Technology



The totally new SIJ-320UV grand-format LED-UV inkjet printer is a high-performance printer developed using Mimaki's concentrated inkjet technologies to provide good quality printing with a maximum printable width of 3.2 m.

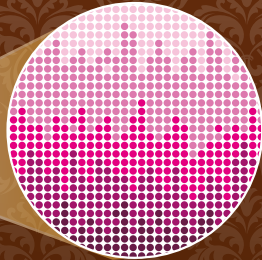
Dynamic & Intelligent Production

Anti-banding system—Mimaki Advanced Pass System (MAPS) 4



MAPS ON

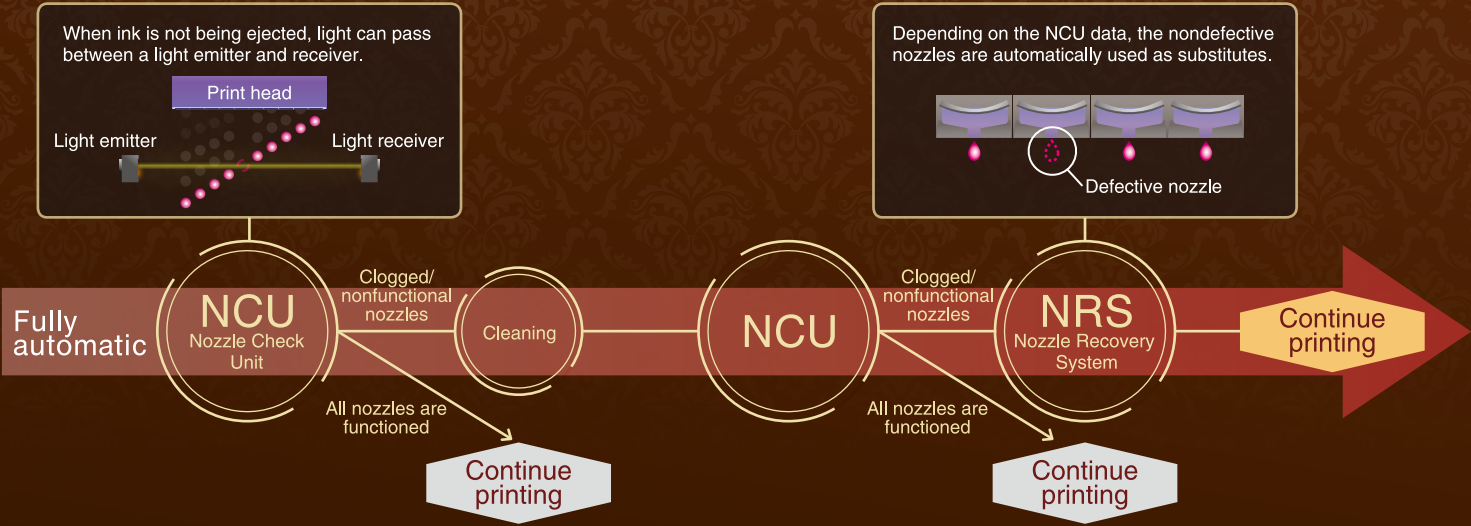
Mimaki's unique MAPS3 anti-banding system has been improved to MAPS4. Unwanted visible banding on the swath boundaries is reduced by overprinting between swaths with a reduced number of ink droplets.



MAPS OFF

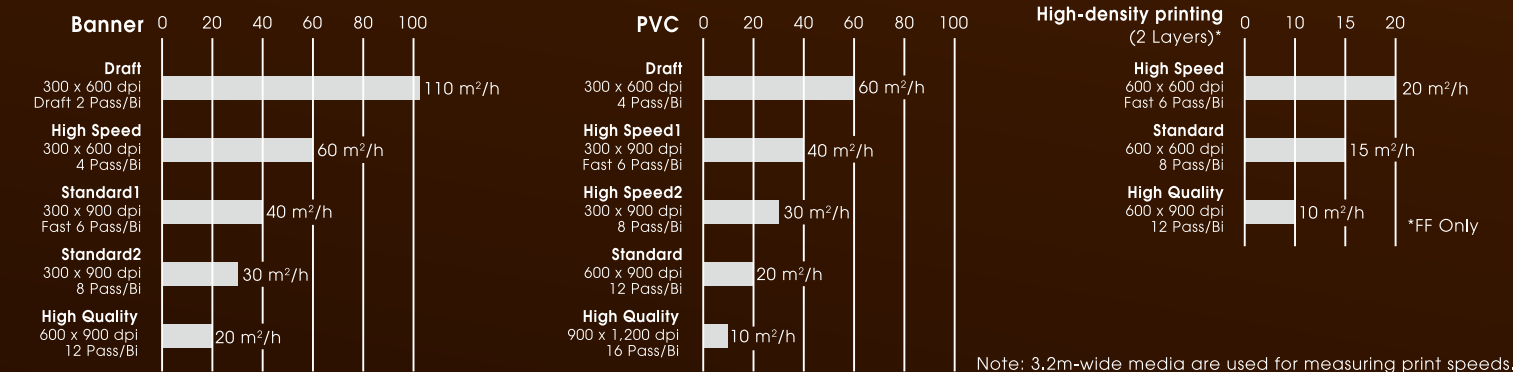
Nozzle Check Unit (NCU) and Nozzle Recovery System (NRS) ensure stable printing operation

The NCU detects and cleans clogged nozzles automatically. If clogging is not resolved after cleaning, the NRS selects substitute nozzles to continue the printing operation. These functions allow the printer to maintain productivity until a technician arrives.



High speed 4-color C M Y K

Super-draft mode allows rapid printing at a maximum printing speed of 110 m²/h. High-density print mode is available for front/backlit signage applications.



Excellent performance

Efficient twin-roll simultaneous printing A different print job can be printed on each roll simultaneously

Taking advantage of the 3,200-mm printing width, two media rolls can be mounted for simultaneous printing. Different print jobs (or the same print job) can be printed on two separate rolls. The user can select the preferred width separately for each roll, within a specified range (210 to 1,524 mm).



Simple media loading

Rolled media can be easily loaded because of a design improvement. This improvement provides increased safety and reduces the time for preparation.



Easy media loading



Tension release device

Advanced media feeding mechanism

Newly designed pinch rollers are used for more accurate media transportation to provide high-quality printing.



Newly designed pinch rollers

High quality

New image-processing technique reduces tone jumps and uneven color printing

Mimaki Fine Diffusion 1 (MFD1) has been recently added to the bundled RasterLink6 RIP software. MFD1 reduces the noise that is generated in image data during image processing and enables the production of better print results without tone jumps or uneven colors.



MFD1 applied



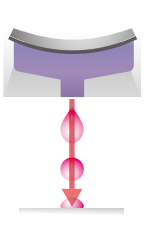
No MFD1

Superior inkjet technology

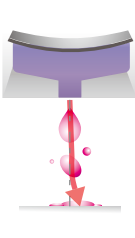
Mimaki's superior inkjet technology accurately places the ink droplets without losing their perfect circularity. This ensures that texts, lines, and edges are clearly and sharply printed.



Waveform control applied



No waveform control



Smooth-gradation printing

Various ink droplet sizes (large, medium, and small) are precisely placed and exhibit nongrainy, smooth, large-format printing. Dark and light color differences are clearly presented, even in high-speed mode, by utilizing the largest 36 pl droplet size.