JV400 Series
JV400-130LX / JV400-160LX

Mimaki™

Product Brochure

The advanced Mimaki latex ink is the reason

Software RIP combining usability and high performance

RasterLink6

It is not so useful if high performance software is hard to use...
The new RasterLink6 is focused on being simple and usable.
With its many new functions, "the software RIP for Everybody" has been achieved and provides for more professional and advanced finished products through its universal ease of use.

▌Intuitive and user-friendly operation

Basic setting items are indicated by icons, enabling intended operations to be performed intuitively without hesitation.

▌The 3-layer print which uses White ink can be set up easily.

1 2nd and 3rd layer image data can be created from the first layer with just one click.

2 Three layer printing is easily achieved by selecting the print jobs and pressing the "Composition" button. Mirroring and changing the job order is also easy, enabling a clear preview of print results.

3 Multiple 3 layer print jobs can be laid out and copied on the same print media. The automatic layout function optimizes the layout of print jobs to reduce media consumption.

▌Web update function is supported.

Supports the Web update function that has been well-received in RasterLinkPro5.
Program update and profile download can be easily performed via internet.

▌Specifications

Item		JV400-130/160LX
Printhead		On-demand Piezo head (2 in-line printheads)
Maximum width		1,361mm (53.6") / 1,610mm (63.4")
Print resolution		600, 900, 1,200dpi
Print speed	Draft	18.2㎡/h(1,200x900dpi, 6pass, bi-directional, 4 color)
	Standard	11.0㎡/h (900x900dpi, 12pass, bi-directional, 4 color)
Ink	Latex ink LX101	4 color (C,M,Y,K) / 7 color (C,M,Y,K,Or,G, W)
	Ink supply system	600 ml ink pack (White ink is provided in 220 ml ink cartridge)
Media	Width	Up to 1,371mm (54.0") / 1,620mm (63.8")
	Weight	Up to 25㎏ (55.1 lbs)
	Roll diameter	Up to φ180mm (7.1")
	Inside roll diameter	2 or 3 inches
	Print aspect	Inside / outside
	Cutter	Y-direction cutter is installed to the printhead unit
Drying device		3 way intelligent heater (Pre/Print/Post)
		Ventilation fan unit, Drying heater
Media Take-up device		Roll take-up device, inside/outside selectable
Interface		USB2.0
Certifications		VCCI class A, FCC class A, UL 60950-1
		CE Marking (EMC, Low voltage and Machinery directive), CB Report
Power supply		AC 100~240V±10%
Power consumption	100 ~ 120V	1,440W × 2
	220 ~ 240V	1,800W × 2
Operational environment		Temperature: 20°C-30°C (68-86 °F);Humidity: 35-65 % RH (non condensing)
Dimensions (W×D×H)		2,634×854×1,435mm / 2,879×854×1,435mm
Weight		216kg (476 lbs.) / 231kg (509 lbs.)

Eco-cartridge method

Eco-cartridges can be used repeatedly by changing spent ink packs.

▌Supplies

Item		Item No.	Remarks
LX101 Latex ink	Cyan	LX101-C-60	
	Magenta	LX101-M-60	
	Yellow	LX101-Y-60	600ml ink pack *
	Black	LX101-K-60	"GREENGUARD Gold" Certification Ink
	Orange	LX101-Or-60	
	Green	LX101-G-60	
	White	LX100-W-22	220ml ink cartridge
Flushing liquid 01		FL001-Z-22	220ml ink cartridge / for daily maintenance
Flushing liquid 03		FL003-Z-22	220ml cartridge / for ink flow path and head cleaning
Flushing liquid kit for maintenance of latex ink		ML001-Z-K1	200ml bottle, dropper x 2, gloves x 6, cotton swabs
Cutter blade assy		SPA-0107	1 pc
Waste ink bottle (2L)		SPA-0117	1 pc
Wiper kit 400		SPA-0184	10 sets
C absorber kit		SPA-0185	3 sets
W filter kit		SPA-0187	1 set / for MCT
Cleaning stick for head surrounding		SPC-0527	50 pcs
Eco cartridge		OPT-J0237	8 cases

* 600 ml ink pack requires eco cartridge (OPT-J0237). Eco cartridges can be used repeatedly by replacing ink packs.
* LX101 ink has no White, please use LX100 white ink.

▌Media

Item	Item No.	Width (mm)	Length (m)	Application
Poster paper LX	MSL-120-137-61	1,370	61	Indoor poster, POP
Transparent film for illuminated signage LX	MSL-140-130-30	1,300	30	Illuminated signage (Mounting on acrylic board)
Transparent self adhesive film LX	MSL-150-124-10	1,240	20	Window decoration, Protect film for mobile phones
Heat transfer rubber sheet D	SPC-0581	610	20	Heat press rubber sheet for fiber cloth
Glossy white PVC	SPC-0706	620 + 1,370	30 + 50	Indoor/Outdoor signage
Matte white PVC	SPC-0707	1,370	30 + 50	Indoor/Outdoor signage
Glossy white PVC A (Adhesion strength increases over time)	SPC-0708	1,150 + 1,370	30 + 50	Fleet marking
Efficient glossy white PVC	SPC-0709	1,370	30	Indoor/Outdoor signage / Air bubble free
White PVC-137 for illuminated signage	SPC-0711	1,370	30	Illuminated signage (Mounting on acrylic board)
Transparent PVC	SPC-0712	1,370	30	Indoor/Outdoor signage
PWS-G	MSS-180-137-50	1,370	50	Indoor/Outdoor signage
PWS-M	MSS-190-137-50	1,370	50	Indoor/Outdoor signage

▌Related Product

Solvent UV Ink (SU100) on board

JV400-130 / 160 SUV

New Waterless Solvent UV Ink

SU100 ink : C M Y K

- High gloss output
- High durability adhesion and scratch resistance
- UV ink cures during the post processing

GREENGUARD

Mimaki Green Technology

Mimaki Latex

Advanced Mimaki Latex

C M Y K Or G + W

MIMAKI Six-color Process Printing + White

For signage, posters, color proofing and more..... JV400LX meets a wide range of applications.

merit 1 JV400LX can print on media which is for solvent ink, such as PVC, banner material and other signage media. Therefore, the smooth shift to latex printer from solvent printer is possible.

merit 2 Media which has an ink receptive layer is relatively expensive. JV400LX accepts many types of printing media including affordable, non-treated ones such as poster paper, temporal wall paper for decoration and so on.

merit 3 Direct printing on product packages and labels is achieved by DDCP*. Highly realistic product samples make business presentations much more impressive and expand business opportunities.
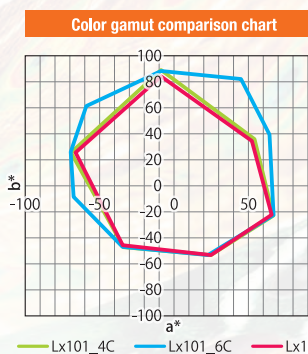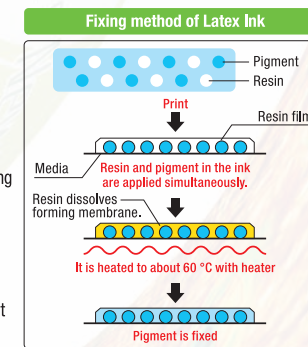* Direct Digital Color Proofing

Eco-friendly multifunctional water-based ink
World's First latex white ink

- Wider color gamut by newly added orange and green inks. *
- Clear and defined printing results due to the improved black ink density.
- Improved print vibrance on most media.

* Supported by Raster Link 6 Ver.1.4 and later.

Excellent usage for outdoor and indoor applications

Latex ink fixes pigment on media because resin contained in the ink dissolves with the heat, forming a membrane.
Latex ink can be output on PVC film, banner material, backlit, blueblacked paper, indispensable for sign making and on most media that are currently used in eco-solvent machines.
Moreover, non-coated media without an acceptance layer, such as paper and textile, can be printed as well. This excellent media compatibility is very attractive as it supports new applications and can expand future print business.

Wide gamut is achieved

LX101 ink covers 93% of approximate Pantone color chart with high reproducibility of color gamut that cannot be achieved by 4 color printing. Taking advantage of high color reproducibility, an application range is widely extended to POP/posters for company logos and proofing of package designs that are mostly specially designed.

Fixing method of Latex Ink

- Pigment
- Resin
- Print
- Resin film
- Media
- Resin and pigment in the ink are applied simultaneously.
- Resin dissolves forming membrane.
- It is heated to about 60 °C with heater
- Pigment is fixed

Color gamut comparison chart

— Lx101_4C — Lx101_6C — Lx100

The World's First White Latex Ink

White ink helps retain the natural vividness of colors by being used as a base to print on transparent or colored materials.
It is very effective in the creation of clear film window graphics etc.

Ink circulation, Eco-friendly & economical applications of white ink

MCT (*) to regularly circulate white ink is standard equipment. It enables stable output from the startup time by effectively avoiding the settling of white pigment in the ink lines. In addition, MCT contributes to reduction of ink waste, thereby supporting environmentally and economically friendly applications.

* MCT = Mimaki Circulation Technology, MCT works only with white ink.

MCT image

Existing product / JV400Series

White | White
Sedimentation | Circulation
Head | Head

Three-layer printing at one time

A three-layer printing of color, white and color can be performed at one time. The underlay printing of a base layer of white ink allows reproduction of the natural beauty of colors printed on transparent media in perfect registration.

- Layer 3 (Color)
- Layer 2 (White)
- Layer 1 (Color)
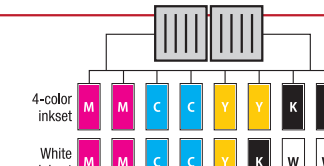
Printing at one time
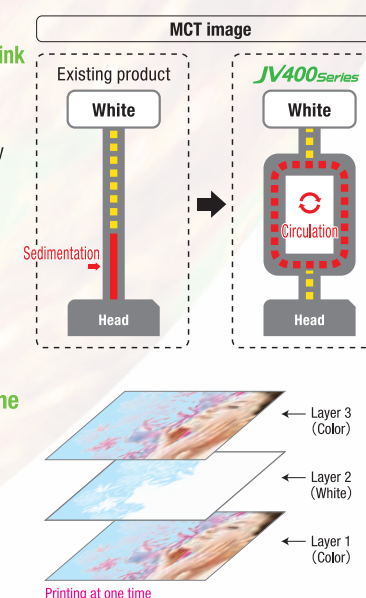
No drying time, Immediate secondary processing

Mimaki Latex ink is fixed and cured right after printing, therefore it is not necessary to care about drying time. After printing, the secondary processing, such as lamination, can be performed, dramatically increasing time and efficiency.

Top ranking print speed

In order to achieve faster printing speed, two newly-developed print heads are set in-line. The new print head has four nozzle lines and one line has 320 nozzles.

4-color inkset: M M C C Y Y K K
White inkset: M M C C K W W

Print speed

4-color inkset (ml/h 0 5 10 15 20ml/h)

Mode	Speed
Draft 1200 × 900dpi, 6p, Bi	18.2㎡/h / 17.1㎡/h
High speed 1200 × 1200dpi, 8p, Bi	13.8㎡/h / 13.0㎡/h
Standard 900 × 900dpi, 12p, Hi	11.0㎡/h / 10.3㎡/h
High quality 1200 × 1200dpi, 16p, Bi, Hi	6.6㎡/h / 6.3㎡/h

-160 / -130

7-color inkset (ml/h 0 5 10 15 20ml/h)

Mode	Speed
Draft 1200 × 900dpi, 12p, Bi	9.1㎡/h / 8.7㎡/h
High speed 1200 × 1200dpi, 16p, Bi	7.0㎡/h / 6.6㎡/h
Standard 900 × 900dpi, 24p, Bi, Hi	5.6㎡/h / 5.1㎡/h
High quality 1200 × 1200dpi, 32p, Bi, Hi	3.3㎡/h / 3.2㎡/h

-160 / -130

*Print speed of white ink(Standard mode): 1 layer (White ink only) 3.3㎡/h , 2 layer (White+ Color) 1.9㎡/h , 3 layer (Color+White+Color) 1.4㎡/h

High quality prints are made available by advanced technology

Variable drops function provides 3 different drop sizes at once. The minimum size is amazingly small 4 pico-litter drop and produces smooth and natural gradation, without granular appearance even in the 4-color mode.

Minimum 4pl

Variable drops

Normal drops
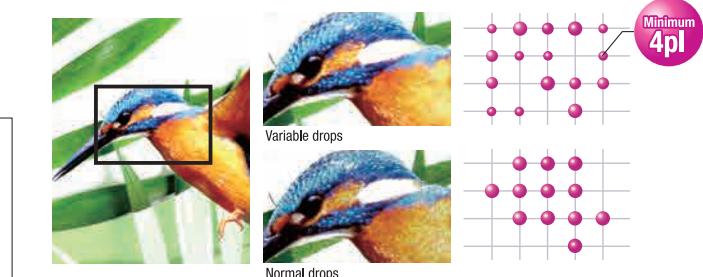
Fail-safe features for continuous operation

Nozzle Recovery Function

Even when the nozzle cleaning does not work on clogged nozzle, the image quality can be recovered temporarily. With this system, the continuous printing without losing image quality is possible, while the conventional printers have to stop printing and wait for the arrival of service person.

* Nozzle Recovery Function is a temporal "failure averting function" to continue operation, and its recoverability is limited

With Nozzle Recovery Function

Clog occurs → Stop working → Keep on printing continuously
Set the function → Back to work immediately

Without Nozzle Recovery Function

Clog occurs → Stop working → Maintenance
"Downtime..." → Service technician arrives

JV400-160 LX