Large Format UV LED Flatbed Inkjet Printer

# JFX200-2513

**Mimaki**

## Clear Ink

### Using clear ink will enhance your design

Clear ink will give a more beautiful glossy finish to realize highly value-added enhanced design. By outputting clear ink and color ink at the same time, the productivity will not be affected during printing. Our new technology "MCC*" has cleared off the surface dust contamination on the installation site when using clear ink.
*MCC = Mimaki Clear Control

A glossy touch can be added with clear ink even on a part of an image as well as entirely on the whole surface.
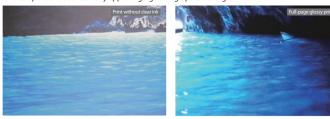
Printing with a partial glossy touch
Using clear ink partially will add a highly appealing glossy touch on your print. Partial glossy printing will make food look much fresher and add an extra touch of class to your print.

Glossy printing on the whole surface
Using clear ink entirely will make your print exclusively luxurious. Glossy printing on the whole surface opens the door to really appealing sign and graphic making.

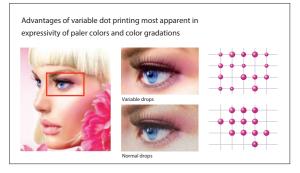Print without clear ink — Full page glossy print

## High Quality Print

### MAPS2: Mask pattern that works to effectively reduce banding

Normal mask pattern — Reduces banding MAPS2 mask pattern

MAPS2(*) is equipped to effectively curb banding. Printing applies ink while controlling the dot density to add a gradational tone effect, which works to make banding less visible. The normal mask pattern is also available, so you can select an optimal pattern that matches with the particular material and application.
*MAPS2 = Mimaki Advanced Pass System 2

### Smooth and beautiful color gradations are made available by Mimaki's original head control technology

Variable drops function provides 3 different drop sizes at once. It produces smooth and natural gradation, without granular appearance even in the 4-color mode.

Advantages of variable dot printing most apparent in expressivity of paler colors and color gradations

Variable drops

Normal drops

### The perfect UV ink for each material and application

LUS-150 provides a flexible ink film that is resistant to cracking once it cured
LH-100 provides a hard ink film that is impervious to scratches once it cured
Choose the perfect UV ink that matches with the particular material and application.
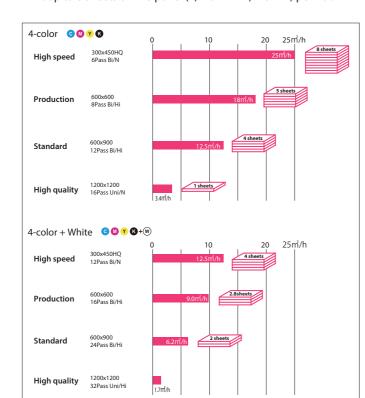
| Type | Flexible, quick-drying UV ink **LUS-150** | Hard, high-color-density UV ink **LH-100** |
|---|---|---|
| Color | C M Y K Lc Lm+W | C M Y K+W+Cl |
| Characteristics | Newly developed UV curable ink with 1.5 times the flexibility and lowered costs. The dried ink film is resistant to cracking even at secondary processing, leading to less tackiness in the print result. | Advanced UV curable ink produces a hard ink film that is highly resistant to scratches and chemicals and grants excellent color effects and color reproducibility. Perfect for applications that require no secondary processing such as bending, twisting, etc. |
| Flexibility | ○ | X |

* LUS = LED UV Stretchable Ink
* The amount of flexibility exhibited by LUS-150 may differ depending on the texture of the print media used. Try out the ink on a test page before proceeding with a full print job.
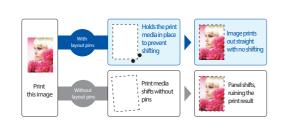
## Print Speed

### Print up to 8 sheets of 4×8 panel (1,220mm×2,440mm) per hour

**4-color** C M Y K

| | | 0 10 20 25ml/h |
|---|---|---|
| High speed | 300×450HQ 6Pass Bi/N | 25ml/h — 8 sheets |
| Production | 600×600 8Pass Bi/Hi | 18ml/h — 5 sheets |
| Standard | 600×900 12Pass Bi/Hi | 12.5ml/h — 4 sheets |
| High quality | 1200×1200 16Pass Uni/N | 3.4ml/h — 1 sheets |

**4-color + White** C M Y K+W

| | | 0 10 20 25ml/h |
|---|---|---|
| High speed | 300×450HQ 12Pass Bi/N | 12.5ml/h — 4 sheets |
| Production | 600×600 16Pass Bi/Hi | 9.0ml/h — 2.8sheets |
| Standard | 600×900 24Pass Bi/Hi | 6.2ml/h — 2 sheets |
| High quality | 1200×1200 32Pass Uni/Hi | 1.7ml/h |

## Easy Operations

### Layout pins for exact positioning

Users previously had to be extremely diligent in lining up the position of print media when placing it on the flatbed of the printer to ensure that the media is not tilted compared to the print surface and that the origin is centered correctly. This printer is now equipped with layout pins and a scale designed to help resolve these issues. The layout pins work to secure the print media in place to prevent it from shifting and the scale used to check the position of the print media before printer settings are made, allowing images to be printed without shifting.
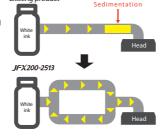
With layout pins — Holds the print media in place to prevent shifting — Image prints out straight with no shifting

Print this image

Without layout pins — Print media shifts without pins — Panel shifts, ruining the print result

Layout pins

## Easy Maintenance

### MCT: Mimaki Circulation Technology for White Ink

MCT to effectively avoid the settling of white pigment in the ink lines by regularly circulating white ink is standard equipment. It prevents any print troubles and enables stable output from the startup time. In addition, MCT contributes to reduction of ink waste, thereby supporting environmentally and economically friendly applications.
*MCT works only with white ink.
(MCT = Mimaki Circulation Technology)

Existing product — Sedimentation
White ink — Head

JFX200-2513
White ink — Head

### Nozzle Recovery Function for continuous operation

When print troubles occurred due to clogged nozzle and even the nozzle cleaning does not work, the conventional printer have to stop printing and wait for the arrival of service person. With Nozzle Recovery Function, the continuous printing is possible by recovering the image quality without slowing down the speed even if a nozzle is removed or taken offline.
*Recoverability of Nozzle Recovery Function is limited.

**With Nozzle Recovery Function**
Clog occurs — Stop working / Set the function — Keep on printing continuously / Back to work immediately

**Without Nozzle Recovery Function**
Clog occurs — Stop working "Downtime..." — Maintenance / Service technician arrives

### The newly developed software RIP with user-friendly operation and high functionality

**RasterLink 6**

It would mean nothing to provide high-performance software with a variety of useful functions if the software itself is too difficult and complicated to use... The newly developed RasterLink software was designed to be extremely user-friendly with this idea in mind. With a wide variety of newly added features, RIP software, software for people of all ages and backgrounds, now encompasses a perfect package with all of the features needed to reproduce beautiful full-color finishes in high definition with the easiest set of controls to use to navigate with!!

### ■ Specifications

| Item | | Specifications |
|---|---|---|
| | | JFX200-2513 |
| Head | | On-demand Piezo head (Array of 2 heads stagger) |
| Diagram resolution | | 300, 450, 600, 900, 1,200dpi |
| Ink | Type | UV curable ink: LUS-150 (C, M, Y, K, Lc, Lm, W) UV curable ink: LH-100 (C, M, Y, K, W, Cl) |
| | Ink supply system | Supplied from 1-liter bottles for each color |
| | Ink circulation system*1 | White ink circulation using Mimaki Circulation Technology (MCT) |
| Media | Maximum diagram dimensions (W×D) | 2,500 × 1,300 mm |
| | Dimensions (W×D) | 2,500 × 1,300 mm |
| | Height | 50 mm |
| | Weight | 50 kg/㎡ (10.2 lb./ft2), non concentrated load |
| Media absorption | | Absorption fixed through use of a vacuum |
| Range accuracy | Number of absorption area partitions | 2 partitions (X-axis direction) |
| | Absolute accuracy | ±0.3 mm (± 0.01 in.) or ±0.3% of the specified range, whichever is larger |
| | Reproducibility | ±0.2 mm (± 0.008 in.) or ±0.1% of the specified range, whichever is larger |
| UV device | | LED-UV system |
| | Standard service life*2 | Over 5,000 hours |
| Interface | | USB2.0 |
| Safety standard | | VCCI class A, CE Marking, CB Report, UL (U.S. safety organization), RoHS directive, UL 60950-1, FCC class A |
| Input power supply | | Single phase, 200 V AC-240 V AC, 50 Hz/60 Hz, up to 12 A |
| Power consumption | | Up to 2.88 kVA |
| Installation environment | Temperature | 15°C-30°C (59°F-86°F) |
| | Relative humidity | 35%-65% RH |
| | Accuracy maintained temperature | 18°C-25°C (64.4°F-77°F) |
| | Temperature gradient | Up to ±10°C/h (±18F/h) |
| | Dust | Similar to standard office environments |
| Install Dimensions (W×D×H) | | 4,400×2,250×1,250 mm (173.2×88.5×49.2") |
| Assembled Dimensions (W×D×H) | | 4,400×2,450×1,250 mm (173.2×96.4×49.2") |
| Weight | | 650 kg |

*1 MCT works only with white ink.  *2 The standard service life times listed are estimates and do not guarantee the operation.

### ■ Supplies

| Item | Color | Item No. | Remarks |
|---|---|---|---|
| LUS-150 | Cyan | LUS15-C-BA | |
| | Magenta | LUS15-M-BA | |
| | Yellow | LUS15-Y-BA | |
| | Black | LUS15-K-BA | |
| | Light Cyan | LUS15-LC-BA | |
| | Light Magenta | LUS15-LM-BA | |
| | White | LUS15-W-BA | Volume per bottle: 1 L |
| LH-100 | Cyan | LH100-C-BA | |
| | Magenta | LH100-M-BA | |
| | Yellow | LH100-Y-BA | |
| | Black | LH100-K-BA | |
| | White | LH100-W-BA | |
| | Clear | LH100-CL-BA | |
| Tungsten replacement needle for ionizer | | SPA-0208 | 4 pcs |
| Air filter kit | | SPA-0209 | 10 sets |

- Ink and inkjet primer are sold in 1-L bottle. Replace it with the old bottle in the ink station when needed.
- The amount of flexibility exhibited by LUS-150 ink may differ depending on the texture of the print media used. Try out the ink on a test page before proceeding with a full print job.
- Printing with LH-100 may not allow the full speed capabilities of the printer to be utilized.

### ■ Optional Accessories

| Item | Item No. | Remarks |
|---|---|---|
| Ionizer kit | OPT-J0342 | Static eliminator kit |
| Vacuum unit (φ 3 mm × 200 mm (φ 0.1 in. × 7.9 in.)) | OPT-J0216 | Three-phase, 200 V-240 V, 30 A, 3.4 kW |
| Vacuum unit (φ 1 mm × 200 mm (φ 0.04 in. × 7.9 in.)) | OPT-J0217 | Single-phase, 200 V-240 V, 30 A, 1.9 kW |
| Vacuum unit (φ 3 mm × 400 mm (φ 0.1 in. × 15.7 in.)) | OPT-J0232 | Three-phase, 380 V-480 V, 20 A, 3.4 kW |
| Optional blower connector kit | OPT-J0348 | Necessary kit for connecting an optional vacuum unit. |

- If the vacuum unit that comes supplied with the printer does not have enough suction power, please purchase a different vacuum unit with optional settings.
- The optional blower connector kit (OPT-J0330) sold separately is needed to connect a vacuum unit with optional settings to the JFX200-2513.
- Vacuum units also require their own power supply line separate from that for the printer itself.

## OPEN UP!

Introduction of new entry-model flatbed printer expanding the possibilities of printing business.

SUNRISE CAFE

LED UV — **Mimaki** Green Technology
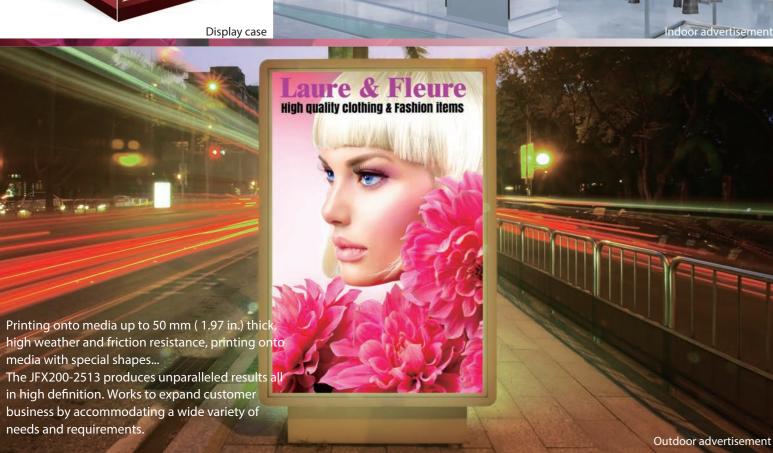
# High-performance entry-level model

Developed using Mimaki engineering knowhow and technology, the JFX200-2513 is an entry-level model printer that nevertheless equipped with all the necessary performance, product quality, ease of use, and environmental friendliness required of a flatbed printer.

Direct-to-media printing onto thick media

Display case

Indoor advertisement

Printing onto media up to 50 mm ( 1.97 in.) thick, high weather and friction resistance, printing onto media with special shapes...
The JFX200-2513 produces unparalleled results all in high definition. Works to expand customer business by accommodating a wide variety of needs and requirements.

Outdoor advertisement

## JFX200-2513

1,220 mm

2,440 mm

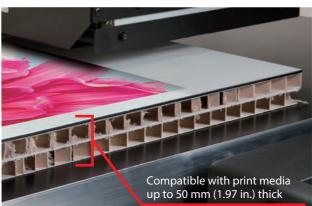Control panel

## Perfect size for installation and usage

Can be used to print 4×8 panel boards* that are commonly used in the marketplace. Comes in a compact size for easy installation and provides excellent user-friendliness even with such high functionality.

*1,220mm×2,440mm

## Environmentally friendly LED-UV curing unit

The LED-UV curing unit has an exceptionally long life and lower power consumption. With its low heat output, it can be used with print media susceptible to problems with thermal deformation or color changes. Producing very few VOCs and very little odor, it is both environmentally friendly and user-friendly and works well in indoor applications such as restaurants. It also produces no potentially destructive ozone during the printing process, which dramatically lessens any potential load on the environment.

## Vacuum unit/suction valve

The vacuum can be turned ON/OFF quite easily and quickly from the control panel. The control panel can also be used to control two separate partitions in the X-direction of the suction area. The suction valve on the front of the printer enables the area to be controlled rather easily.
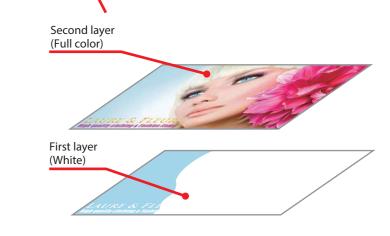
## Ink supply unit

With the newly developed ink supply unit, 1-L bottles of ink can be inserted into the system and used as is. Ink bottles can be inserted quickly and easily from the front of the printer, speeding up the replacement process.

## Direct-to-media printing onto thick media

Images can be printed out not only onto regular paper media but also directly onto thick media. Works with media up to 50 mm (1.97 in.) thick to support expansion into a wide variety of print business applications.

Compatible with print media up to 50 mm (1.97 in.) thick

## Two-layer print function

Two-layer printing of separate white and full color layers is possible at the same time. A coating of white ink can be applied evenly at high accuracy to really bring rich and vibrant colors to life even more beautifully with transparent print media.

Second layer (Full color)

First layer (White)