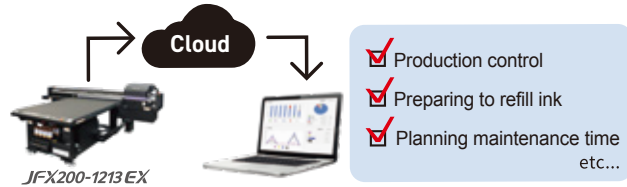Mimaki Cloud Technology **PICT**

PICT allows users to monitor printer operation and ink usage remotely. It supports better planning by providing real-time data on operational status and performance.
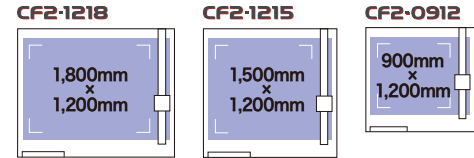
PICT helps with scheduled maintenance and preparing for ink refills, ensuring smooth and efficient production.

Cloud

JFX200-1213 EX

☑ Production control
☑ Preparing to refill ink
☑ Planning maintenance time etc...

Expand its potential and capabilities with our cutting machines.

Choose from Three Available Sizes to Suit Your Space Allocation and Application Needs.

CF2 Series
CF2·T/TF/RT/TD/RC

A wide range of sizes and head types are available, along with customization options. Please contact your local Mimaki dealer for more information.

CF2·1218 — 1,800mm × 1,200mm
CF2·1215 — 1,500mm × 1,200mm
CF2·0912 — 900mm × 1,200mm

LED-UV Curing Flatbed Inkjet Printer

/Mimaki

JFX200-1213 EX

Just In Size

- Mid-sized flatbed (up to 1270 mm × 1300 mm)
- Best-in-class productivity of up to 25 m²/h
- Even faster texture printing
- High image quality printing

■Specifications

Item		Specifications
		JFX200-1213 EX
Head		On-demand piezo head (3 staggered print heads)
Print resolution		300 dpi, 450 dpi, 600 dpi, 900 dpi, 1,200 dpi
Ink	Type/Color	Rigid UV curable ink LH-100
		Flexible UV curable ink LUS-120 / LUS-150 / LUS-211 / LUS-350
	Capacity[*1]	1 L bottle / 250 ml bottle
	Ink circulation system[*2]	White ink circulation by MCT (Mimaki Circulation Technology)
Max. Printable area (W x D)		1,270×1,300 mm (50.0×51.2")
Media	Size (W × D)	Up to 1,270×1,300 mm (50.0×51.2")
	Height	50 mm (2.0") or lower
	Weight	50 kg/m² (10.2 lb/ft²) or less (non concentrated load)
Media suction		Vacuum suction + foot switch
	Suction areas	2 partition (X direction)
UV method		LED-UV
Interface		USB, Ethernet
Applicable standards		VCCI class A, CE mark, CB report, U.S. safety standard UL (UL62368-1), RoHS Directive, FCC Class A, Machinery Directive, RCM
Power		Single-phase AC200 to 240 V, 50/60 Hz, 12 A or lower
Power consumption		2.88 kVA
Operating environment	Temperature	15 - 30 degC (59 - 86 degF)
	Humidity	35 - 65 %Rh
	Optimal temperature	20 - 25 degC (68 - 77 degF)
	Temperature gradient	Less than ± 10 degC / h (± 18F/h)
	Dust	Equivalent to an office
Assembled dimensions (W×D×H)		3,142×2,320×1,235 mm (123.7×91.3×48.6")
Weight		510 kg (1124.4lb)

■Optional Accessories

Item No.	Item	Remarks
OPT-J0348	Optional blower Connector Kit	Necessary kit for connecting an optional vacuum unit
OPT-J0216	Vacuum unit (φ3 mm × 200 mm (φ 0.1 in. × 7.9 in.))	Three-phase, 200 V-240 V, 30 A, 3.4 kW
OPT-J0217	Vacuum unit (φ1 mm × 200 mm (φ 0.04 in. × 7.9 in.))	Single-phase, 200 V-240 V, 30 A, 1.9 kW
OPT-J0232	Vacuum unit (φ3 mm × 400 mm (φ 0.1 in. × 15.7 in.))	Three-phase, 380 V-480 V, 20 A, 3.4 kW
OPT-J0499	4C+4White ink applying kit	Necessary kit for 4C+4White ink set
OPT-J0513	Lift-Up Block	
OPT-J0569	Ionizer kit	

About Ethernet

*Please use Category 6 (CAT6) network cables. *Cannot be connected through the router.
*When printing from ethernet, place the printer and output PC on the same network.
*When using a switching hub, a 1000BASE-T compatible hub is necessary.
*Although up to 4 printers can be registered with RasterLink7, printing may stop depending on the network environment.

⚠ **Inks and substrates:**
・As physical properties of ink (adhesion, weather resistance etc.) are different depending on media, please be sure to have a print test in advance.
・Depending on the application, primers, other surface treatment or surface protection such as lamination may be necessary.

■Supplies

	Color	Item No.	Remarks
LH-100	Cyan	LH100-C-BA	
	Magenta	LH100-M-BA	
	Yellow	LH100-Y-BA	
	Black	LH100-K-BA	
	Light cyan	LH100-LC-BA	
	Light magenta	LH100-LM-BA	
	White	LH100-W-BA	
	Clear	LH100-CL-BA	
LUS-120	Cyan	LUS12-C-BA	
	Magenta	LUS12-M-BA	
	Yellow	LUS12-Y-BA	
	Black	LUS12-K-BA	
	White	LUS12-W-BA	
	Clear	LUS12-CL-BA	
LUS-150	Cyan	LUS15-C-BA	
	Magenta	LUS15-M-BA	
	Yellow	LUS15-Y-BA	Ink package: 1 L bottle
	Black	LUS15-K-BA	
	Light cyan	LUS15-LC-BA	
	Light magenta	LUS15-LM-BA	
	White	LUS15-W-BA	
LUS-211[*3]	Cyan	LUS211-C-BA	
	Magenta	LUS211-M-BA	
	Yellow	LUS211-Y-BA	
	Black	LUS211-K-BA	
	White	LUS211-W-BA	
	Clear	LUS211-CL-BA	
LUS-350	Cyan	LUS35-C-BA	
	Magenta	LUS35-M-BA	
	Yellow	LUS35-Y-BA	
	Black	LUS35-K-BA	
	White	LUS35-W-BA	
	Clear	LUS35-CL-BA	
Primer[*4]	PR-200	PR200-Z-BA	
Tungsten replacement needle for ionizer		SPA-0208	4pcs.

*1: LH-100, LUS-120 and PR-200 come in both 250 ml and 1 L bottles.
*2: MCT works only with white ink.
*3: LUS-211 ink is available in some regions.
*4: The PR-200 is not compatible with LUS-211 and LUS-350.
* As the stretchability of flexible ink may vary depending on materials, please have a prior test print.
* LH-100, LUS-120, LUS-150 and LUS-211 are GREENGUARD Gold certification ink.

⚠ **Safety notice:**
This product is equipped with UV irradiation equipment.
Please pay attention to the following notes in order to use safely.
・Do not look directly into the UV light source nor place your hand, or expose your skin directly to the UV light source.
・Depending upon print mode, some VOC emittance from printed parts not yet cured and hardened may occur.
・In addition, please be sure to read and follow the instructions and guidelines of the manual carefully.

/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	MIMAKI USA, INC.	Europe	MIMAKI EUROPE B.V.
Brazil	MIMAKI BRASIL COMERCIO E IMPORTACAO LTDA	Indonesia	PT. MIMAKI INDONESIA
India	MIMAKI INDIA PRIVATE LIMITED	Australia	MIMAKI AUSTRALIA PTY. LTD.
Taiwan	MIMAKI ENGINEERING (TAIWAN) CO.,LTD.	China	SHANGHAI MIMAKI TRADING CO.,LTD.
Singapore	MIMAKI SINGAPORE PTE. LTD.	Thailand	MIMAKI (THAILAND) CO.,LTD.
Vietnam	MIMAKI VIETNAM CO., LTD.		

Single unit, various applications.

Pictograms

Displays

Commercial signage

Braille signs

Information boards

Packages

LED UV

/Mimaki Green Technology

GREENGUARD GOLD
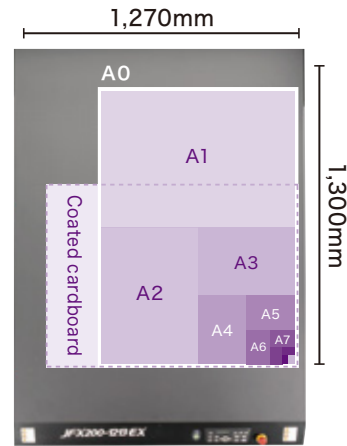
4 Key features

01 / Mid-sized flatbed (up to 1270 mm × 1300 mm)

Single unit - sign graphics & paper package print capability

30% more compact than the JFX200-2513 EX model.

Supports all A-series media sizes.

- **Sign graphics use** supports A0 size signage panels.
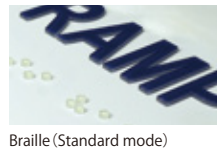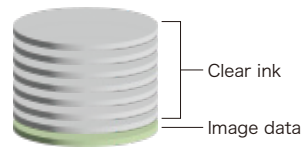- **Paper and packaging** supports standard coated cardboard sizes.

1,270mm
1,300mm

A0, A1, A2, A3, A4, A5, A6, A7
Coated cardboard

JFX200-1213 EX

02 / max. 25㎡/h Highest-in-class productivity

The perfect upgrade from your desktop UV printer

Print speed comparison between the JFX200-1213 EX and the UJF-6042MkII e

Mode	Speed
300×300dpi 4pass	25㎡/h
300×450dpi HQ 6pass	18㎡/h
600×600dpi 8pass	13㎡/h
600×900dpi 12pass	9㎡/h
1200×1200dpi 16pass	2.5㎡/h
600×600dpi 8pass	3.52㎡/h
600×900dpi 12pass	2.29㎡/h
600×1200dpi 16pass	1.74㎡/h
1200×1200dpi 16pass	1.28㎡/h

0[㎡/h] 2 4 6 8 10 12 14 16 18 20 22 24 26
※LH100 is not supported at 300 x 300 dpi 4pass.

JFX200-1213 EX

UJF-6042MkⅡe

Maintain productivity and switch to the highest quality mode

Carriage
Control panel
Vacuum valves
Ink tanks (pull-out unit)

03 / Even faster texture printing

Fast, attractive and easy, added value texture printing

Faster Braille printing with two different modes to suit various applications. Easily achievable using standard design software and RasterLink7, instantly turning your textured designs into reality.
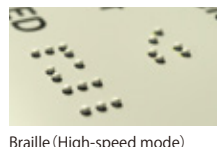
High-speed Braille printing made possible by Mimaki's cutting-edge flatbed technology

- **Standard mode**

The Braille sign is created using clear ink embossing, ensuring that the transparent Braille dots do not interfere with the underlying graphic design.

Clear ink
Image data

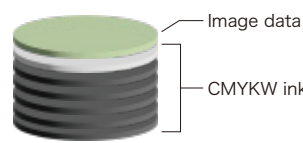- **High-speed mode**

High-speed texture printed bi-directionally. Utilized for all raised parts including pictograms.

Image data
CMYKW ink

Braille (Standard mode)
Braille (High-speed mode)
Braille signs

2.5D printing that creates realistic embossed effects

Automatically generates texture layering data from graphic information in RasterLink7. This process applies UV ink in layers to produce textured effects, with thicker layers resulting in more pronounced bumps and dips.
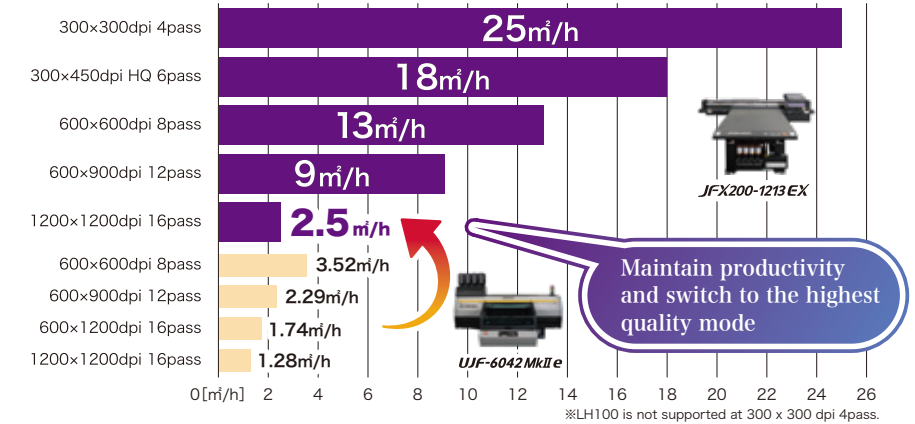
04 / High image quality printing

Mimaki's advanced imaging technology realizes smooth gradation and high density print.

| **Fast and high quality production for custom goods and signage.**
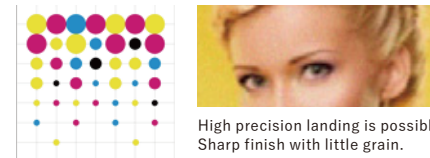
- **Waveform control**

By discharging spherical ink droplets directly, the depositing of droplets is facilitated, while overlapping between dots is reduced. This achieves a sharp print quality with low graininess.

〈Non-spherical discharge〉

Gapping or overlapping occurs. The image quality is rough and the edges are blurred.
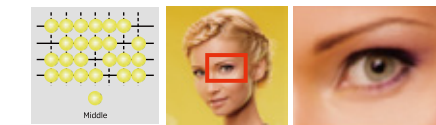
〈Discharged in a nearly true spherical state〉

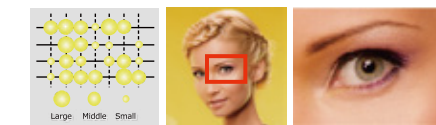High precision landing is possible. Sharp finish with little grain.

- **Variable dots**

Three different ink dot sizes are used in printing to enable high-quality prints with reduced graininess.

〈Fixed Dot Image〉
Middle

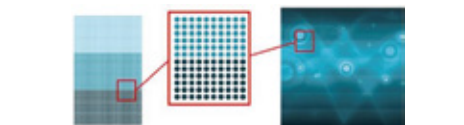〈Variable Dot Image〉
Large Middle Small

Dots are combined including the minimum size of 5 pl to enable grainless, smooth color printing.
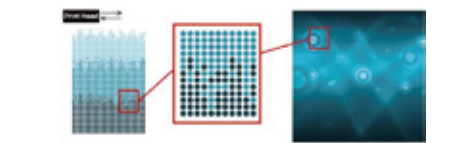
- **MAPS** (Mimaki Advanced Pass System)

Banding (horizontal stripes), uneven color, or glossy streaks can be reduced to produce smooth prints by printing pass boundaries fading in gradation.
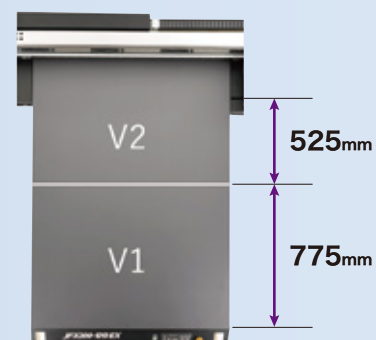
〈Without MAPS (Image)〉
〈With MAPS (Image)〉

Based on printing conditions such as media/ink type and resolution, the most suitable gradation pattern is automatically selected and printed.

Operator-friendly user interfaces easily accessible from the front

V2 525mm
V1 775mm

- **Valve and foot switch for vacuum control**

The vacuum area is divided into a front section and a rear section. The valve can be used to switch between them easily depending on the media size. The foot switch allows you to turn the vacuum on/off while checking the media location.

Vacuum valve
Foot switch

- **Ink tank unit**

The ink bottles can be accessed from the front side of the printer for replacement and maintenance. This minimizes the pathway to be followed by operators, increasing work efficiency.

Ink tank unit (when pulled out)

Mimaki's technology for realizing stable operation

Auto maintenance function to minimize downtime

NCU (Nozzle Check Unit)

The status of nozzles is automatically detected by the sensor. When the NCU detects a missing nozzle, it automatically performs cleaning to solve the problem.

Print Head

Ink emission is determined to be defective in case of light permeation.

NRS (Nozzle Recovery System)

If there is still an unsolved problem after cleaning, the NRS automatically replaces the defective nozzles with other nozzles, which enables users to continue their operation without waiting for service representative.
Nozzles that emit no ink are substituted by alternate nozzles. The system is automatically set based on the information provided by the NCU.

A defective nozzle that emits no ink is substituted by an alternate nozzle.

MCT (Mimaki Circulation Technology)

The JFX200-1213 EX has an ink circulation mechanism in its ink tank and ink path. It circulates white ink periodically to prevent nozzle trouble due to deposited ink pigments and to stabilize printing performance.

Conventional White Ink Line
White ink
Sediment
Head

Ink Line With MCT
White ink
Circulation
Tank
Pump
Head

Before printing → NCU — Missing nozzle → Cleaning → NCU — Missing nozzle → NRS → Continue printing
No missing nozzle → Continue printing
No missing nozzle → Continue printing

Implemented between transferred files (=jobs)