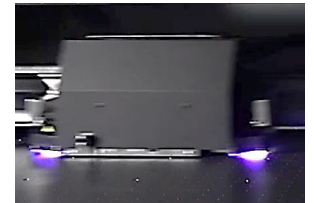


4 zone vacuum table
Printable area
1,420x700x150mm
(W55.9" x D27.5" x H5.91")

Ionizer (optional)
To neutralize static charges on printing media

Signal Tower Light
Visibility of printer status



Dual print heads
Double UV-LED lamps

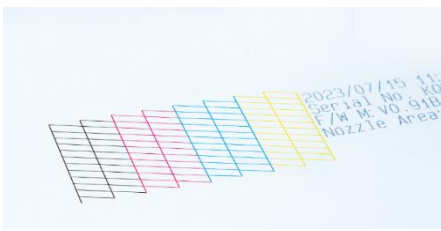
Media height detection
(Laser sensor)

Automatic nozzle checking unit
(Drop sensor unit)

Vacuum Control
Selection of Area & Suction Power

Foot switch
Vacuum On/off switch

Simple Nozzle Check
Nozzle check can be performed
in a dedicated area even with
media on the print table



High productivity & high image quality

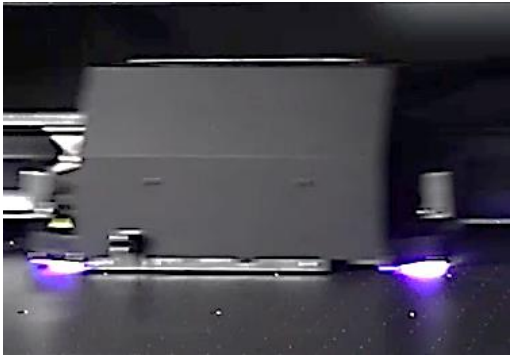
- 2 new UV-LED lamps guaranteeing optimal curing in bi-directional printing
- Staggered dual print heads split CMYK and WH/VA and improve print speed in layer printing
- Robust and accurate chassis ensures high dot placement accuracy

Adaptability to print on various media

Vacuum table with enhanced media adaptability

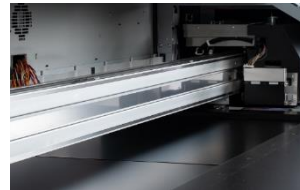
- Printable size 1,420 mm x 700 mm / 55.9" x 27.5"
- 150 mm / 5.91" thickness
- The table unit mechanism allows flexible support for various objects and media sizes

Two new UV-LED lamps



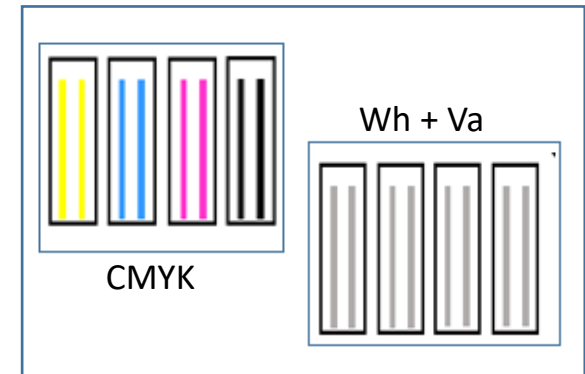
*Optimal ink curing
in Bi-D printing*

Super rigid & accurate chassis



*High dot placement accuracy
with moving gantry*

Staggered dual print heads



High speed 2-layer printing

***Incredible productivity & high image quality
in Bi-D printing***

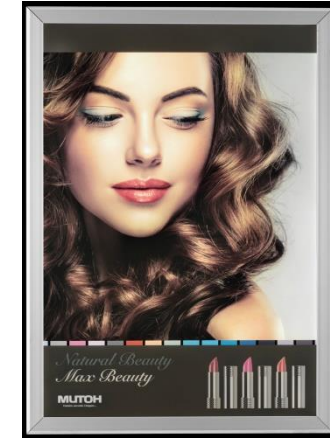
Incredible productivity & high image quality in Bi-D printing

Target: Fine Art, Photography

Requirement

High image quality with less graininess and smooth gradation

- High image quality is achieved by high ink landing accuracy
- Bi-D printing ensures high productivity



Target: Industrial (Switch panels, etc.)

Requirement

Text and line printing accuracy

- High accuracy of ink dot placement enables high quality of small texts, even at high-speed printing.



Acrylic Panel



Metal panel

High productivity with 2-layer printing

Target: Personalized items, awards

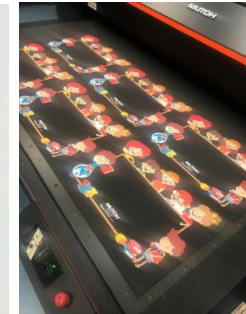
Requirement

Productivity for 2-layer printing (4C + W)

- Staggered dual print heads, the first head prints CMYK and the second head prints white & varnish : 2-layer printing without speed loss.



Print on blackboard



Award

Target: Braille and 2.5D structure

Requirement

Support multi-layer printing for production use

- Dual print heads provide high productivity, even in multi-layer printing



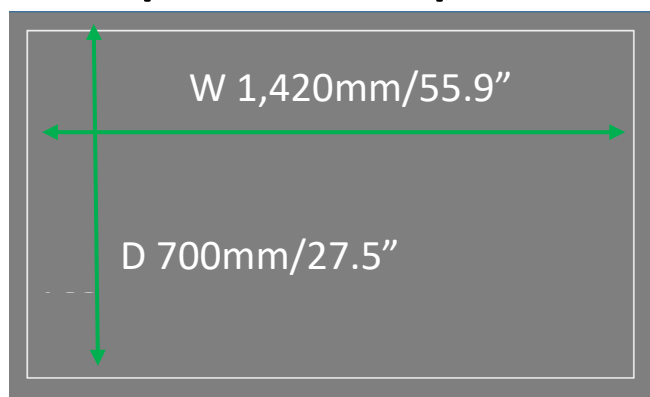
Stained glass style
(printed from both the back and front)



Raised Text & Braille

4 zone vacuum table with enhanced media adaptability

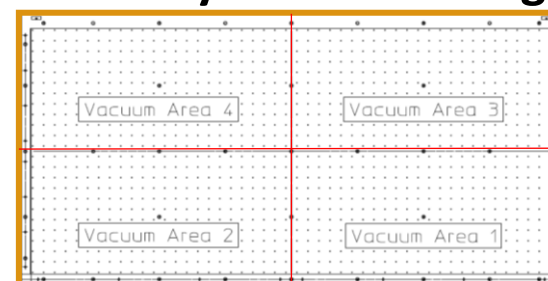
Unprecedented print size



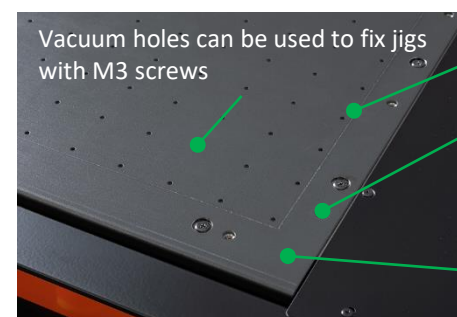
Max. thickness: 150 mm / 5.91"

Max. weight: 50 kg/m²

Table functions for easy media loading



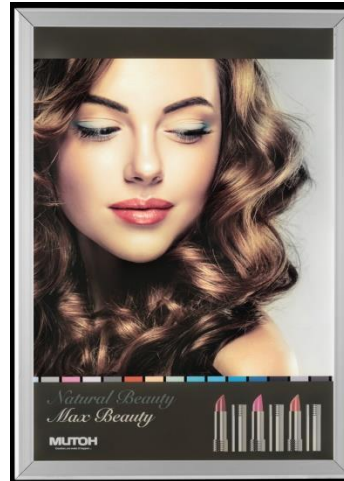
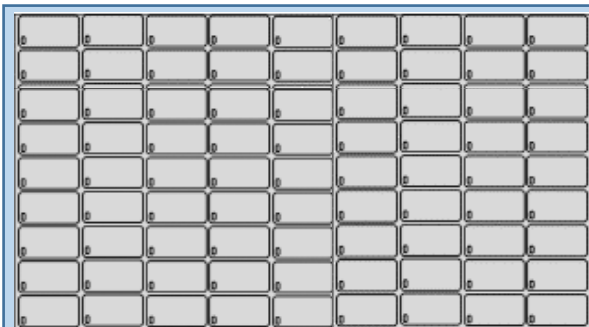
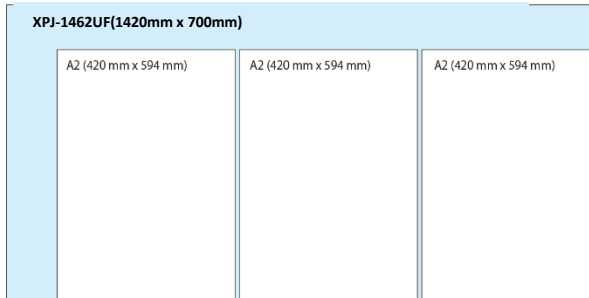
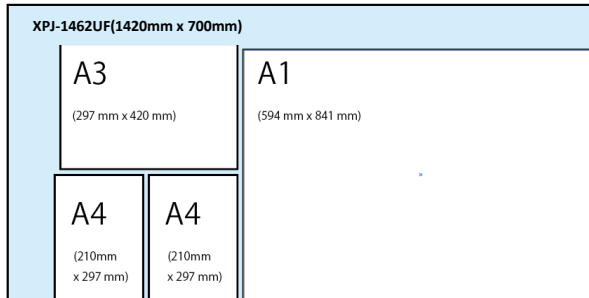
Divided into 4 zones (vacuum control)
4 levels of suction power



Flexible support for various objects and media sizes

Printable size of 4 zone vacuum table: 1420 mm x 700 mm (55.9" x 27.5")

Ideal for higher production volume/shorter delivery times and with flexible and efficient layout for different sizes



Poster



Welcome board



Smartphone case



Backlit film

Prints directly on a variety of materials, including 3D objects up to 150 mm/5.91" thick.



Environmentally responsible next-generation ink

- No use of CMR category 1 (1A, 1B) substances ^{*1} : TPO & THFA free
- No SVHC – Substances of Very High Concern

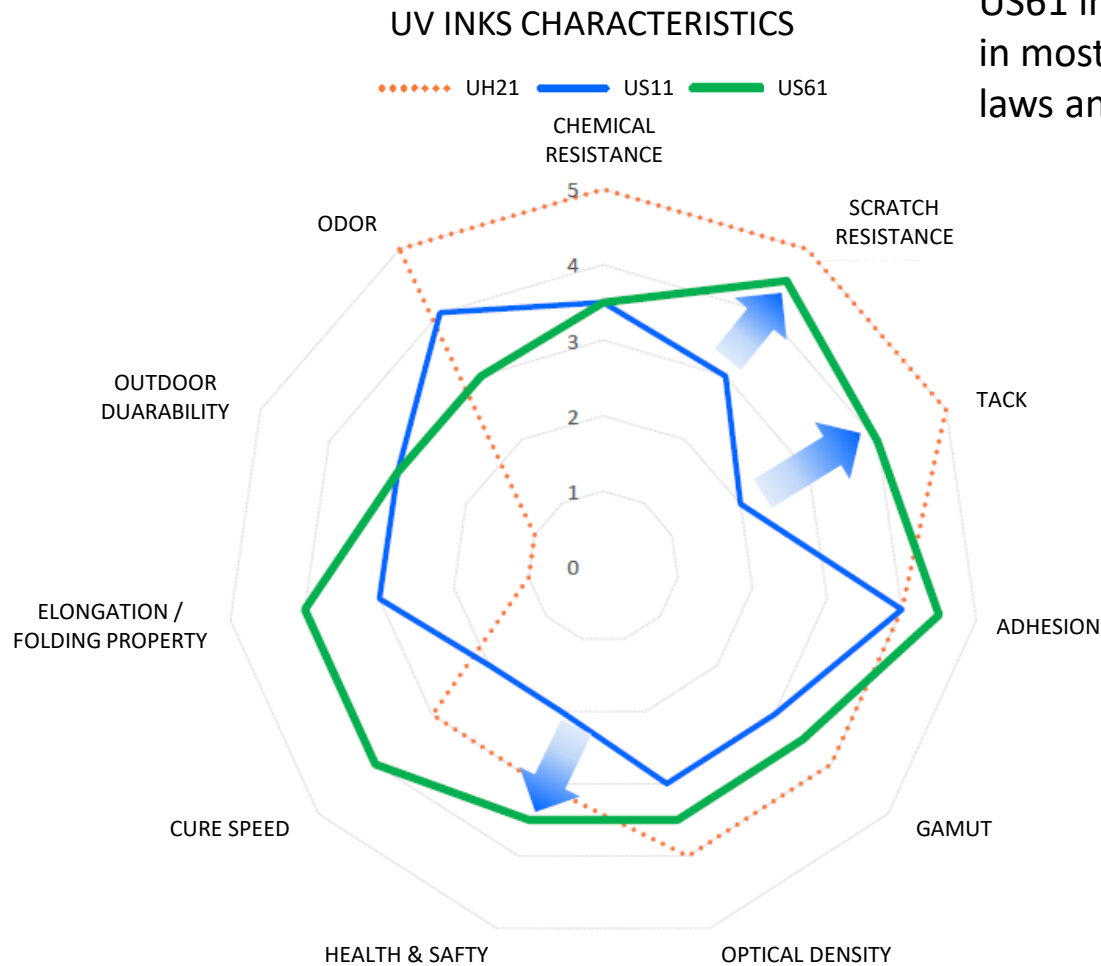
Achieves functional improvements

- Better flexibility and scratch resistance
- Compatible with a wide range of substrates
- Reduced stickiness after curing
- Highly opaque white ink



*1. CMR refers to substances of very high concern that are carcinogenic, mutagenic or reproductive toxic. Category 1 is classified as substances that are carcinogenic, mutagenic, or reproductive toxic to humans.

Functional improvements



US61 ink performs better than US11 ink in most categories while meeting the laws and regulations

MUTOH does not recommend UV inks for the following applications:

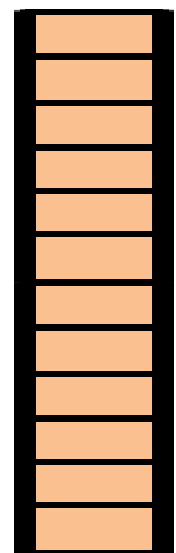
- Decorative applications on fabrics that may come into direct contact with the human body, such as clothing
- Toy applications
- Food packaging, tableware, etc.
- Medical devices

** When used for such application, user must confirm that the use of the UV ink for the intended application meets the laws and regulations of the country or the region beforehand.*

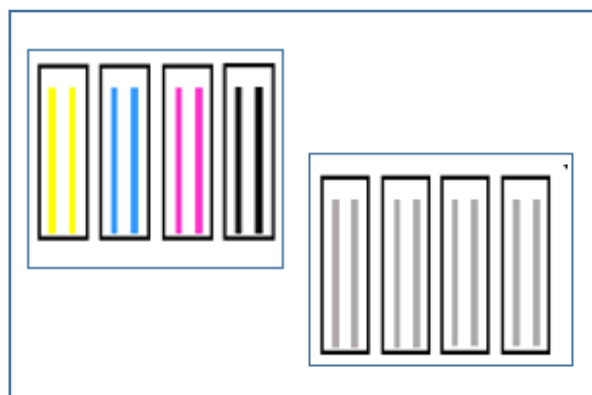
Two UV-LED lamps for Bi-D printing

Two 4-inch wide UV-LED lamps - located at both sides of the print heads - enable high speed bi-directional printing.

In addition, Mutoh adopted staggered dual print heads. CMYK and WH/VA are independently arranged to significantly improve productivity in 2-layer printing.



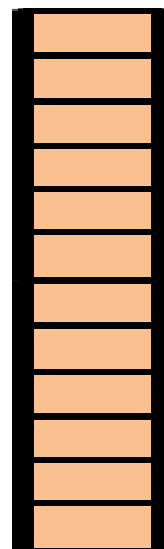
UV-LED lamp



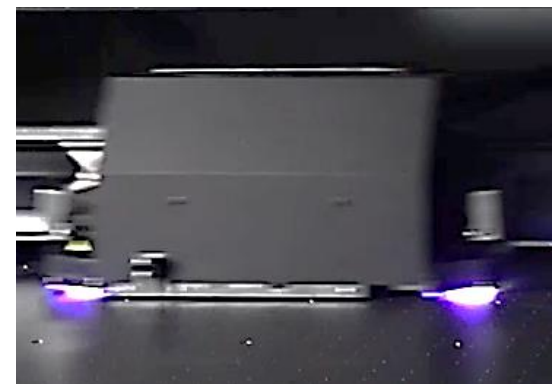
Head 1 : CMYK

Head 2: Wh & Va only

*Focus on speed up in layer printing

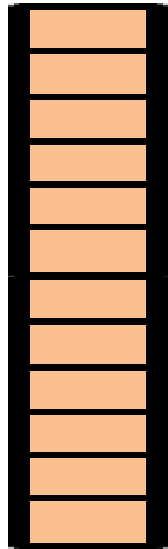


UV-LED lamp

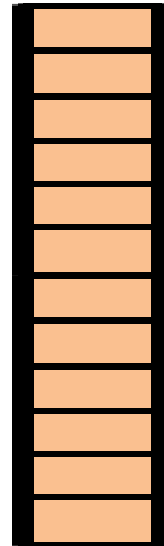
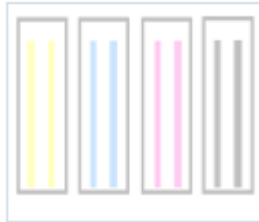


New UV-LED lamps enable high print quality

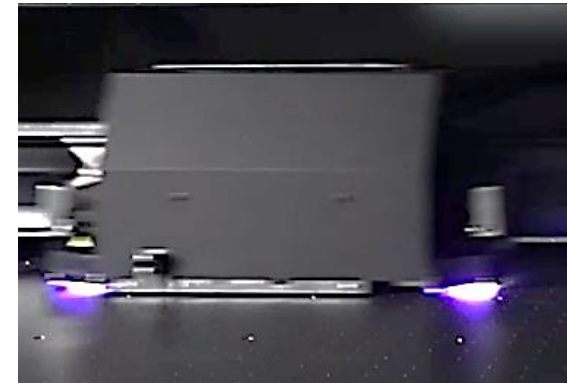
Two newly developed 4-inch UV-LED lamps are installed to ensure optimal curing under all printing conditions. In addition, UV-LED local dimming control monitors the irradiation of the UV-LED lamps on a cell-by-cell basis.



UV-LED lamp



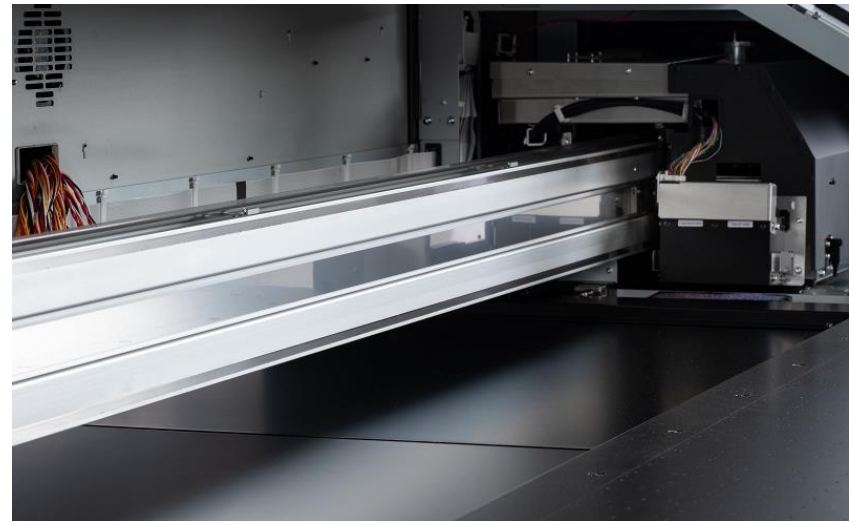
UV-LED lamp



High precision chassis designed for high image quality with less graininess.



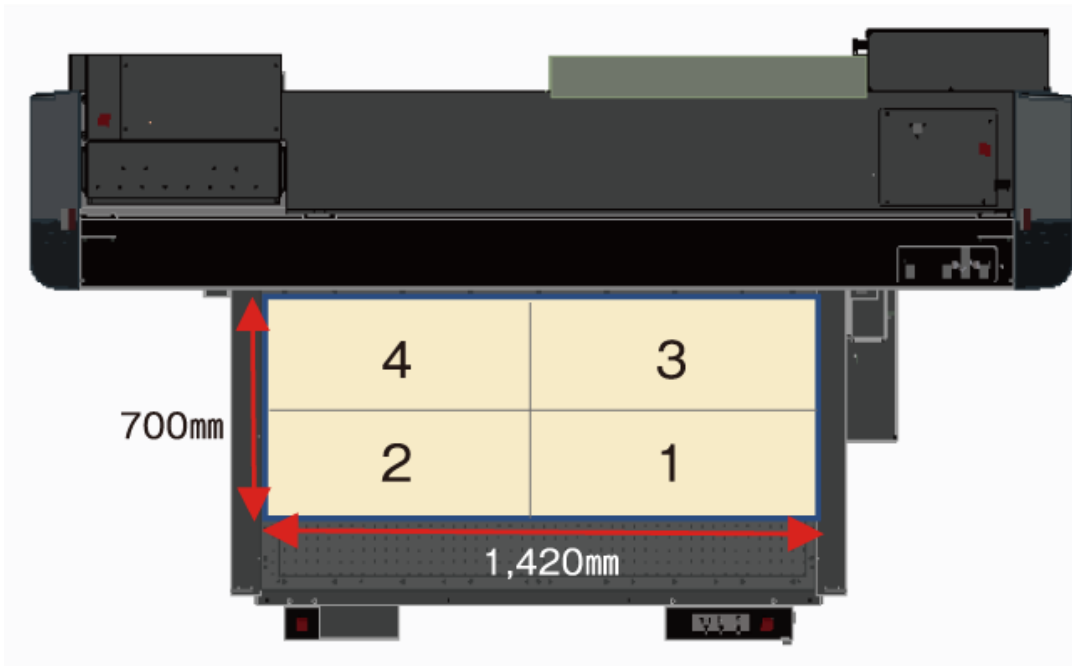
The rigid vacuum table frame ensures the accuracy of the ink landing position for bi-directional printing



MUTOH's traditional aluminum Y-rail structure adjusted to deliver more accurate dot placement.

4 zone vacuum table

Has 4 levels of suction power (OFF, Low, Middle, High) with a dedicated control panel at the front of the printer.



Vacuum Zone : Zone1_Zone1.2_Zone1.3_Zone3_Zone3.4_ZoneALL

Suction Power : High, Middle, Low, OFF

Print / Media Set : By selecting Media Set whilst loading media, safety settings can be made so that the gantry is not activated even if data is transmitted.

Three features to support media location

1. Engraved lines around the printing area to support user's media location.
2. As 24 pcs of M4 taps for jig mounting on the outside of the marking line and 1152 of suction holes are $\varnothing 2.7\text{mm}$ holes with a diameter of M3 screw pre-drilled, tapping screws can be fixed.
3. The table material has magnetizing properties. Media location can be set freely with magnet sheets or magnets.



1152 of suction holes
are $\varnothing 2.7\text{mm}$ holes
with a diameter of
M3 screw pre-drilled

24 pcs of M4 taps
taps for jig mounting
on the outside of
the marking line

Automatic media height detection

The laser sensor automatically detects media thickness*, prevents collisions with the media and protects the print head.



How to operate:

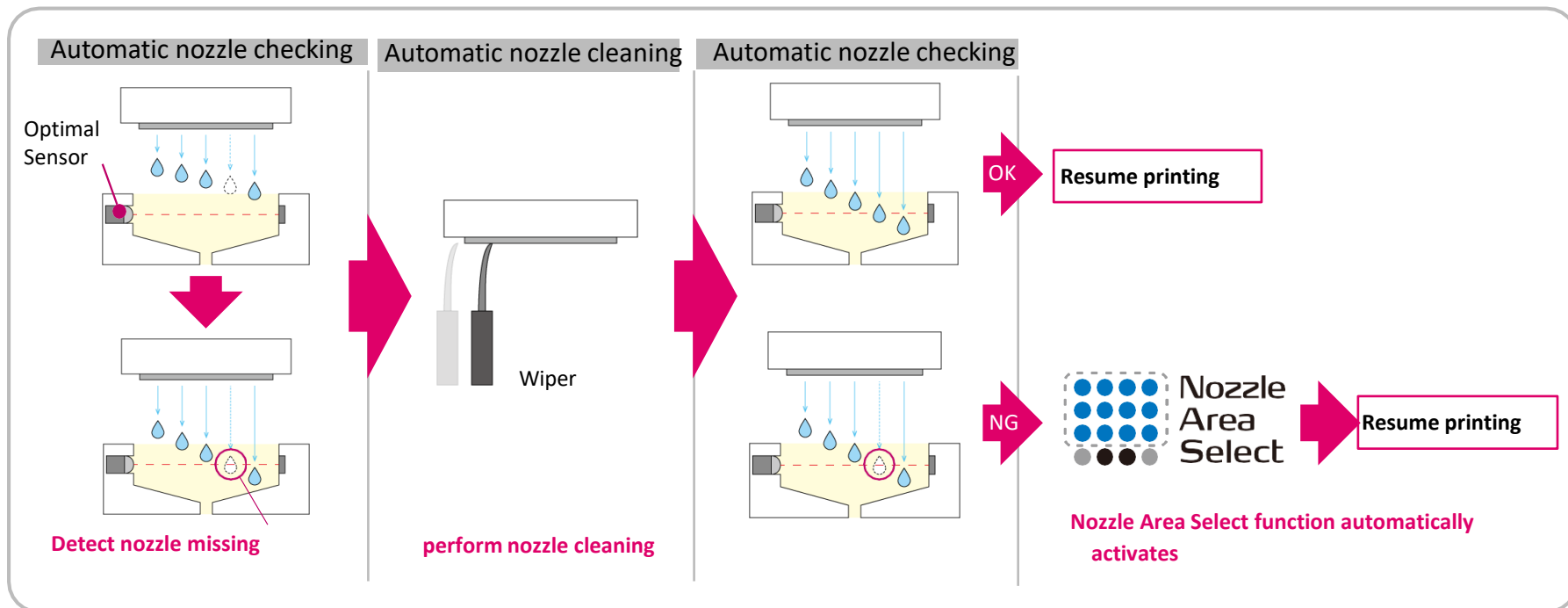
1. The condition of gantry in the rear position is the origin, and the user in front of the machine sets the media as the initial operation.
2. The laser sensor automatically recognizes the media thickness and the gantry comes forward to the standby position to start printing.
3. Color + white overlayer printing is performed while the gantry moves to the rear.
4. White + color underlayer printing once the gantry moves to the rear and then prints toward the front.

* Media Thickness up to 150 mm / 5.91"

Automatic nozzle checking unit

The XPJ-1462UF is equipped with a module that can optically monitor the ink jetting from the print head. Missing nozzles can be detected automatically and nozzle cleaning can be performed. It reduces the operator workload and can avoid lost printouts.

If nozzles are not recovered, the Nozzle Area Select function automatically activates to continue printing.



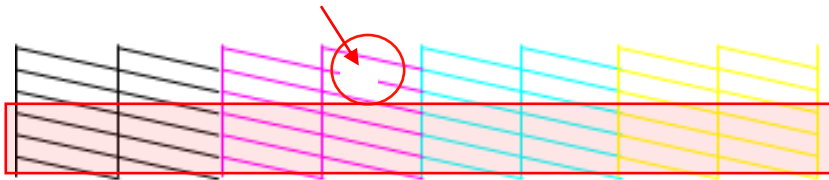
*This function does not guarantee for the perfect accuracy of detection.

Nozzle Area Select

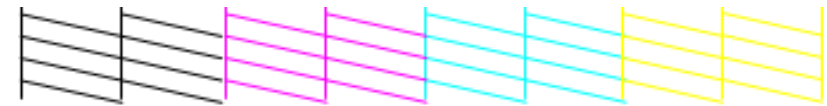
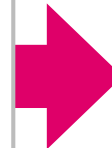
Printing temporarily using blocks of active nozzles when clogged nozzles fail to recover. It enables continuous printing with minimal downtime. This function ensures seamless operation without disruption.



Confirm nozzle clogging with nozzle check process



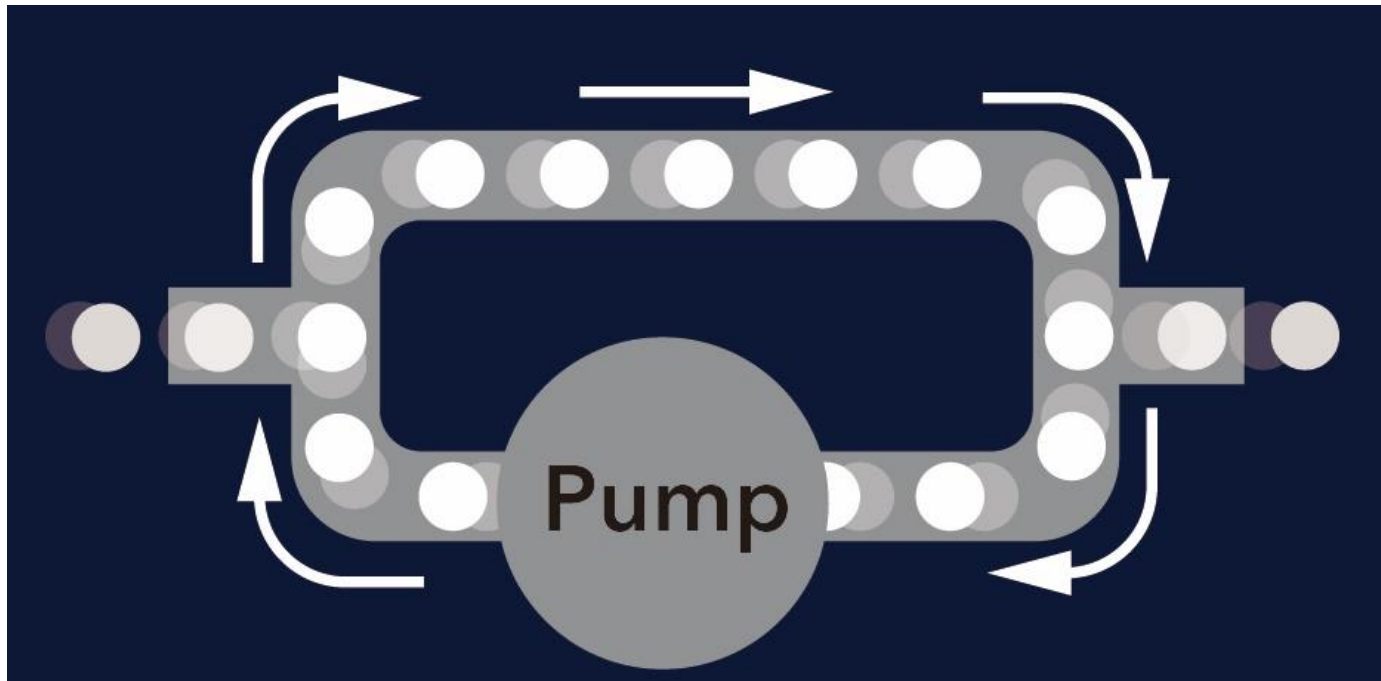
Print the nozzle check pattern, confirm the active nozzle blocks and select a mode from 6 modes



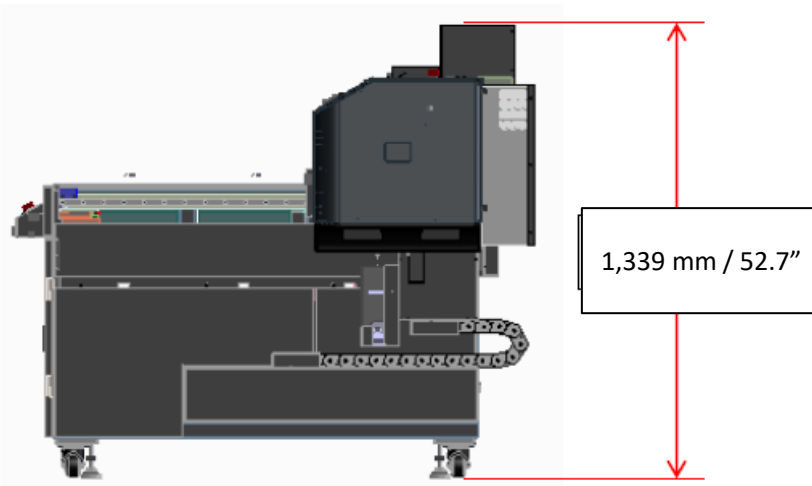
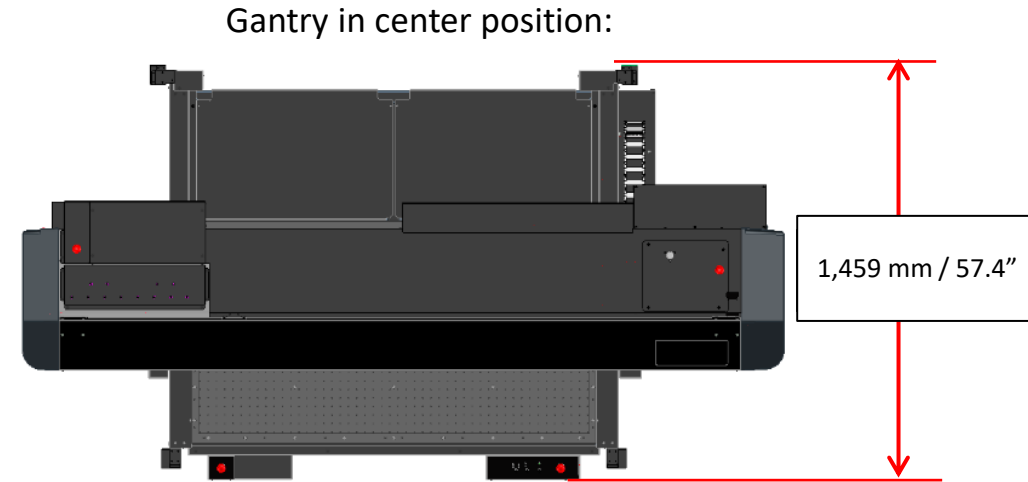
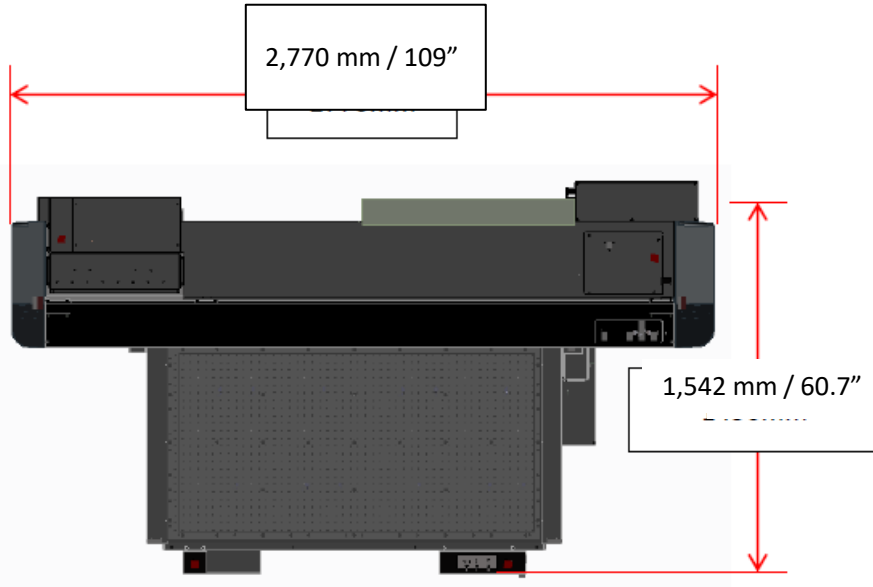
Continues printing using only the active nozzles without head replacement
(*printing efficiency drops to about 50% to 66%)

Ink circulation

Three circulation pumps (WH, Bk, Y) have been adopted to achieve stable color reproduction.



Appearance, size and weight



Weight : 500 kg / 1,102lbs
In original packaging : 600 kg / 1,322.8lbs

XPJ-1462UF

Packing size (W x D x H) : 3,000 x 1,720 x 1,542 mm
118.1" x 67.7" x 60.7"

Weight: 600 kg / 1,322.8lbs

Printer size

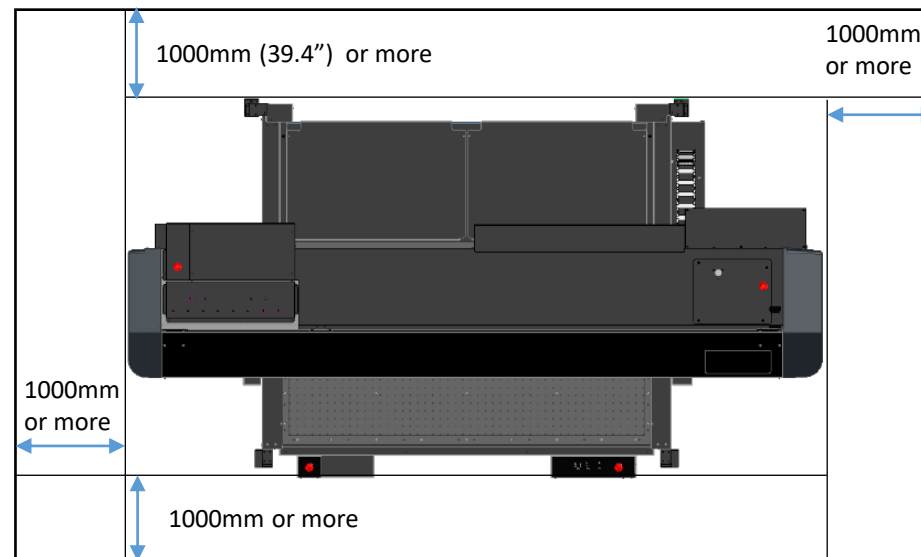
W x D x H : 2,770 x 1,542 x 1339 mm / 109" x 60.7" x 52.7"

Required area size for installation location

W: 4,770 mm x L: 3,600 mm x H: 2,000 mm
187.8" x 141.7" x 78.7"

【Minimum space requirement】

The following space is required for installation.



<Installation Location Requirements>

Choose the location which satisfies the requirements below.

- The floor must be level.
- Avoid vibration from the neighboring devices.
- Low humidity and free from dust.
- Less chance of temperature and humidity changes.
- Avoid direct sunlight.
- Avoid water.
- Avoid direct air onto the printer.
- Low levels of electromagnetic waves.

⚠ CAUTION

- Choose the floor that can safely support the weight of this product.
If the floor does not have sufficient load capacity. It can lead to injury from a fall.
- Keep the work area well ventilated while operating.
Ink odor may cause health problem such as headache, dizziness or dull.
If you experience these symptoms, stop printer operation and move to fresh air.
Seek medical attention if vomit persists.

XPJ-1462UF Specifications

MUTOH

Printer model		XPJ-1462UF
Printing system		On-demand piezo drive system
Print head	Number	2 (staggered)
	Nozzles	180 nozzles x 8 lines x 2
Ink	Type	UV LED ink (New US61 / UH21)
	Ink Capacity	800 ml bag / 500 ml bag (UH21 white only)
	Configuration	6
	Color	CMYKWhVa
Printable Area		1420 x 700 mm (55.9" x 27.5")
Supported Media Size		1420 x 700 mm (55.9" x 27.5")
Max. Media Weight		50 kg/m ²
Height adjustment		Automatic
PG		150 mm / 5.91"
Print resolution		Up to 1440 x 1440 dpi
Interface		GB-Ethernet (1000BASE-T)
Dimension W x D x H (mm)		With gantry in the rear position: 2,770 x 1,542 x 1,339 mm (109"x60.7"x52.7") With gantry in the center position: 2,770 x 1,459 x 1,339 mm (109"x57.4"x52.7") With gantry in the front position: 2,770 x 1,600 x 1,339 mm (109"x63"x52.7") *front cover is closed and ink bags are not loaded
Weight		500 kg / 1,102lbs
RIP software		VerteLith
Optional		Ionizer

*The specifications are subject to change without notice.