

Specification

Printer Section Specifications

UCJV300 Series

Item		UCJV300-160
Print head	Method	Drop-on-demand piezoelectric print heads
	Specification	2 heads, 8 nozzles: 4c/6c+WW (in-line)
Printing mode (scan x feed)		300x600dpi / 300x900dpi / 600x600dpi / 600x1200dpi / 1200x1200dpi
Plotting resolution		x-dpi: 600, 900, 1200 y-dpi: 300, 600, 1200
Usable inks		UV curing ink (genuine Mimaki ink) C, M, Y, K, Lc, Lm, W
Ink supply		Supplied from bottles (UV curing ink)
Ink capacity		1L (1 bottle for each color)
Usable media		Label stock (paper-based) / PVC sheet (including laminated; thickness no more than 0.25 mm) / Fluorescent sheet / Reflective sheet
Margin	Leaf media	Left end and right end : 15 mm (Default) / Min. 5 mm Front : 120 mm Rear : 150 mm (Left end and right end : 0.6 in (Default) / Min. 0.2 in Front : 4.7 in Rear : 5.9 in)
	Roll media	Left end and right end : 15 mm (Default) / Min. 5 mm Front : 120 mm Rear : 150 mm (Left end and right end : 0.6 in (Default) / Min. 0.2 in Front : 4.7 in Rear : 5.9 in)
Head height adjustment		Manual 3-stage (2.0/2.5/3.0)
Waste ink tank		Bottle type (2,000 cc)
Command		MRL- V
UV unit		Two air-cooled LED UV irradiation units (mounted on the head slider)

UCJV150 Series

Item		UCJV150-160
Print head	Method	Drop-on-demand piezoelectric print heads
	Specification	1 heads, 4 nozzles: 4c
Printing mode (scan x feed)		300x600dpi / 300x900dpi / 600x600dpi / 600x1200dpi / 1200x1200dpi
Plotting resolution		x-dpi: 600, 900, 1200 y-dpi: 300, 600, 1200
Usable inks		UV curing ink (genuine Mimaki ink) C, M, Y, K, Lc, Lm, W
Ink supply		Supplied from bottles (UV curing ink)
Ink capacity		1L (1 bottle for each color)
Usable media		Label stock (paper-based) / PVC sheet (including laminated; thickness no more than 0.25 mm) / Fluorescent sheet / Reflective sheet
Margin	Leaf media	Left end and right end : 15 mm (Default) / Min. 5 mm Front : 120 mm Rear : 150 mm (Left end and right end : 0.6 in (Default) / Min. 0.2 in Front : 4.7 in Rear : 5.9 in)
	Roll media	Left end and right end : 15 mm (Default) / Min. 5 mm Front : 120 mm Rear : 150 mm (Left end and right end : 0.6 in (Default) / Min. 0.2 in Front : 4.7 in Rear : 5.9 in)
Head height adjustment		Manual 3-stage (2.0/2.5/3.0)
Waste ink tank		Bottle type (2,000 cc)
Command		MRL- V
UV unit		Two air-cooled LED UV irradiation units (mounted on the head slider)

Cutter Section Specifications

Item		Specifications
Maximum speed ^{*1}		30 cm/s (42 cm/s in the 45° direction) (118.1 in/s (165.4 in/s in the 45° direction))
Maximum acceleration		0.5G
Cutting pressure		10 to 450g (0.02 to 1.0lb)
Number of times the cutter responds to a medium		10 times/sec
Usable tools		Eccentric cutter/ water-based ballpoint pen/ oil-based ballpoint pen/ Ballpoint pen for handwriting (sold on the market) ^{*2}
Usable media		Polyvinyl chloride sheet (Thickness of 0.25mm or less with laminate) /fluorescent sheet ^{*3} ^{*4} reflecting sheet ^{*4} (excluding high-intensity reflecting sheets)/ Label card (paper-based)/ Heat transfer rubber sheet (Polyvinyl chloride sheet (Thickness of 0.01in or less with laminate)/ fluorescent sheet / reflecting sheet ^{*4} (excluding high-intensity reflecting sheets)/ Label card (paper-based)/ Heat transfer rubber sheet)
Margin	Leaf media	Left and right: 15mm (0.6in) (default value), Minimum: 5mm (0.2in), Front: 135 mm (5.3in), Rear: 150 mm (5.9in)
	Roll media	Left and right: 15mm (0.6in) (default value), Minimum: 5mm (0.2in), Front: 135 mm (5.3in), Rear: 150 mm (5.9in)
Repetition accuracy ^{*5}		± 0.2 mm or less (excluding expansion and contraction due to temperature)
Reception buffer memory		256 MB
Command		MGL-II c2
Program step		25μm/step

*1. The maximum speed may be limited, depending on the size of a used medium. In addition, the cutting section does not operate with both speed and acceleration being at the maximum.

*2. Use one with a diameter of 8 to 9 Φ whose clamped part has no protrusion or taper. In addition, because the position of the pen point changes, depending on the types of pens, no good image quality can be ensured.

*3. This conforms with our specified sheet. This conforms with our specified sheet.

*4. When a blade dedicated for fluorescent sheets (SPB-0007) or a blade dedicated for reflecting sheets (SPB-0006) is used. When a blade dedicated for fluorescent sheets (SPB-0007) or a blade dedicated for reflecting sheets (SPB-0006) is used.

*5. For repetition accuracy, see the lower part of this page.

Common Specifications

UCJV300 Series

Item		UCJV300-160
Max. printing/ cutting width		1610mm (63.4in)
Roll media SIZE	Maximum	1620mm (63.8in)
	Minimum	210mm (8.3in)
	Thickness	1.0 mm or less (0.04 in or less)
	Roll outside diameter ^{*1}	Paper media : Φ 250 mm or less (Φ 9.8 in or less) Other media : Φ 210 mm or less (Φ 8.3 in or less)
	Roll weight ^{*1,*2}	40 kg or less (88.2 lb or less)
	Roll inside diameter	2 or 3 inches
	Printing surface	Inside/outside
	Roll end treatment	The roll end is gently fixed to the core with weak-adhesive tape or weak glue for easy removal.
Leaf media SIZE	Maximum	1620mm (63.8in)
	Minimum	210mm (8.3in)
Distance accuracy	Absolute accuracy	Whichever the larger one of ± 0.3 mm or ± 0.3 % of the designated (Whichever the larger one of ± 0.01 in or ± 0.3 % of the designated)
	Reproducibility	Whichever the larger one of ± 0.2 mm or ± 0.1 % of the designated (Whichever the larger one of ± 0.08 in or ± 0.1 % of the designated)
Perpendicularity		± 0.5 mm / 1000 mm (± 0.02 in / 39.4 in)
Media delivery		Take-up device supplied as a standard accessory (switching possible between face in and face out).
Interface	Print data transfer function	USB 2.0, Ethernet 1000 BASE-T
	E-mail function	Ethernet 10 BASE-T / 100BASE-TX / 1000BA
Noise	During standby	Less than 55 dB (A) (FAST-A, Front & Rear & Left & Right 1 m)
	During continuous printing	Less than 65 dB (A)
	During discontinuous printing	Less than 70 dB (A)
Safety Standard		VCCI-Class A, FCC-Class A, UL 60950-1 compliant ETL, CE Marking (EMC, Low Voltage Directive, Machinery Directive, RoHS Directive), CB Report, RoHS, Energy Star
Power		Single-phase AC100 - 120V / 200 - 240V $\pm 10\%$ x2 50/60Hz ± 1 Hz
Power consumption		1920W@AC200V system / 1440W@AC100V system x2
Recommended Environment	Available temp.	20 °C to 30 °C (68 °F to 86 °F)
	Humidity	35 to 65% Rh (No condensation)
	Guaranteed temp.	20 °C to 25 °C (68 °F to 86 °F)
	Temperature change	± 10 °C / h or less (± 50 °F / h or less)
	Dust	Equivalent to normal office level
	Highest operation height	2000 m (6561.7ft)
Weight		188kg (414.5lb)
Outside dimensions	Width	2900mm (114.2in)
	Depth	776mm (30.6in)
	Height	1475 mm (58.1in) (excluding ink bottle height)

*1. It is outside diameter and weight after take-up media.

*2. Without deflection of the roll when it is retained at both ends.

UCJV150 Series

Item		UCJV150-160
Max. printing/ cutting width		1610mm (63.4in)
Roll media SIZE	Maximum	1620mm (63.8in)
	Minimum	210mm (8.3in)
	Thickness	1.0 mm or less (0.04 in or less)
	Roll outside diameter ^{*1}	Paper media : Φ 250 mm or less (Φ 9.8 in or less) Other media : Φ 210 mm or less (Φ 8.3 in or less)
	Roll weight ^{*1,*2}	40 kg or less (88.2 lb or less)
	Roll inside diameter	2 or 3 inches
	Printing surface	Inside/outside
	Roll end treatment	The roll end is gently fixed to the core with weak-adhesive tape or weak glue for easy removal.
Leaf media SIZE	Maximum	1620mm (63.8in)
	Minimum	210mm (8.3in)
Distance accuracy	Absolute accuracy	Whichever the larger one of ± 0.3 mm or ± 0.3 % of the designated (Whichever the larger one of ± 0.01 in or ± 0.3 % of the designated)
	Reproducibility	Whichever the larger one of ± 0.2 mm or ± 0.1 % of the designated (Whichever the larger one of ± 0.08 in or ± 0.1 % of the designated)
Perpendicularity		± 0.5 mm / 1000 mm (± 0.02 in / 39.4 in)
Media delivery		Take-up device supplied as a standard accessory (switching possible between face in and face out).
Interface	Print data transfer function	USB 2.0, Ethernet 1000 BASE-T
	E-mail function	Ethernet 10 BASE-T / 100BASE-TX / 1000BA
Noise	During standby	Less than 55 dB (A) (FAST-A, Front & Rear & Left & Right 1 m)
	During continuous printing	Less than 65 dB (A)
	During discontinuous printing	Less than 70 dB (A)
Safety Standard		VCCI-Class A, FCC-Class A, UL 60950-1 compliant ETL, CE Marking (EMC, Low Voltage Directive, Machinery Directive, RoHS Directive), CB Report, RoHS, Energy Star
Power		Single-phase AC100 - 120V / 200 - 240V $\pm 10\%$ x2 50/60Hz ± 1 Hz
Power consumption		1920W@AC200V system / 1440W@AC100V system x2
Recommended Environment	Available temp.	20 °C to 30 °C (68 °F to 86 °F)
	Humidity	35 to 65% Rh (No condensation)
	Guaranteed temp.	20 °C to 25 °C (68 °F to 86 °F)
	Temperature change	± 10 °C / h or less (± 50 °F / h or less)
	Dust	Equivalent to normal office level
	Highest operation height	2000 m (6561.7ft)
Weight		183kg (403.4lb)
Outside dimensions	Width	2900mm (114.2in)
	Depth	776mm (30.6in)
	Height	1475 mm (58.1in) (excluding ink bottle height)

*1. It is outside diameter and weight after take-up media.

*2. Without deflection of the roll when it is retained at both ends.

Ink specifications

Item		UV ink
Supply		1 L ink bottle
Color		Black ink Cyan ink Magenta ink Yellow ink Light cyan ink Light magenta ink White ink
Ink capacity		1L
Shelf life		The period is printed on the ink bottle. Within three months after opening the package even in the available period.
Storage temperature	Storage	5 to 30 °C (Up to 1 month at 30 °C) <ul style="list-style-type: none"> • Be sure to keep a vessel in the airtight condition. • Be sure to keep a vessel in a dry, well-ventilated, cool and dark location.
	Transportation	1 to 60 °C (Up to 120 hours at 60 °C , up to 1 month at 40 °C) <ul style="list-style-type: none"> • Avoid the condition lower than 0 °C and higher than 40 °C. (Avoid the condition lower than 32 °F and higher than 104 °F.)

Important!

- Do not disassemble ink bottles and do not refill them with ink.
- Ink could freeze if kept in a cold place for an extended period.

If the ink freezes, defrost it for at least 3 hours at room temperature (25 °C) before use.

Note that the properties of ink that has been frozen will change, resulting in deteriorated print quality. Store the ink in an environment that will not freeze the ink.