Print & Cut
LED-UV Curable Inkjet Printer

UCJV300 Series

"High—spec" models applying the 4-layer/5-layer print

Speedy and easy printing and cutting by just one unit.
Upcoming line of UCJV300 series!

UCJV300-75
0.8m width

Printable up to 800mm width
Small foot-print and versatile model covering wide range of stickers, labels and point of sales materials making.

UCJV300-107
1.1m width

Printable up to 1090mm width
Quick printing and cutting to apply a B0 size poster of commercial print besides promotional items of various type of media.

UCJV300-130
1.3m width

Printable up to 1361mm width
Suitable for both signage and point of marketing materials.
Quick processing without ink drying time by UV-LED to reduce the working time significantly for orders in short delivery time.

UCJV300-160
1.6m width

Printable up to 1610mm width
Applicable to large format sign, long-sized sticker, vehicle wrapping films, too
Reliable functions for Print & Cut to wide sized print production.

Print & Cut LED-UV Curable Inkjet Printer

UCJV300 Series
UCJV300-75 / 107 / 130 / 160

Mimaki™

Leading the Future of Sign Graphics through

UV Innovation

Specifications

Item		UCJV300-75	UCJV300-107	UCJV300-130	UCJV300-160
Print head		On-demand piezo head			
Print resolution		300dpi, 600dpi, 900dpi, 1200dpi			
Droplet size		Min. 7pl, Max. 28pl			
Head gap		3 degrees adjustable (2.0/2.5/3.0mm) by manual			
Ink	Type	LED-UV ink			
	Color	LUS-170/LUS-200			
		LUS-170(C,M,Y,K,Lc,Lm,W / C,M,Y,K,Cl,W / C,M,Y,K) LUS-200(C,M,Y,K,W / C,M,Y,K)			
	Capacity	1L (Bottle supply)			
Max. print width		800mm (31.5in)	1,090mm (42.9in)	1,361mm (53.5 in)	1,610mm (63.4in)
Max. media width		810mm (31.9in)	1,100mm (43.3in)	1,371mm (54.0 in)	1,620mm (63.8in)
Media thickness		1.0mm or less			
Media roll outer diameter		250mm or less			
Media roll weight		40kg (88.2lb) or less			
Cut speed		Max. 300mm / s (420mm / s in 45 degrees direction)			
Cut pressure		10 - 450gf			
Cutter types		Eccentric cutter, Blade for small character, Blade for reflective sheet			
		Blade for fluorescent sheet, Standard blade for vinyl			
Safety standard		VCCI Class A / FCC Class A / Compliant with UL 60950-1, ETL			
		CE Marking (EMC, Low Voltage, Machinery Directive), RoHS			
		CB Report / REACH · ENERGY STAR / RCM			
Interface		USB2.0 / Ethernet1000 BASE-T			
Power supply		Single phase AC100 -120/200-240V ±10%, 50 / 60Hz ±1Hz			
Power consumption		AC100V : 1.44kW / AC200V : 1.92kW or less			
Operational environment		Temperature : 20-30 degC / 68-86 degF, humidity : 35-65% Rh (No condensing)			
Outside dimensions (W × D × H)	mm	2,090 × 776 × 1,475	2,380 × 776 × 1,475	2,650 × 776 × 1,475	2,900 × 776 × 1,475
	in	82.3 × 30.6 × 58.1	93.7 × 30.6 × 58.1	104.3 × 30.6 × 58.1	114.2 × 30.6 × 58.1
Weight	kg/lb	139 / 306.4	156 / 343.9	172 / 379.2	188 / 414.5

*Specifications, designs and dimensions stated in this list may be subject to change without notice due to technical improvement etc.

Supplies

Product name	Color	Item code	Remarks
LUS-170	Cyan	LUS17-C-BA	1L bottle
	Magenta	LUS17-M-BA	
	Yellow	LUS17-Y-BA	
	Black	LUS17-K-BA	
	Light Cyan	LUS17-LC-BA	
	Light Magenta	LUS17-LM-BA	
	White	LUS17-W-BA	
	Clear	LUS17-CL-BA	
LUS-200	Cyan	LUS20-C-BA	1L bottle
	Magenta	LUS20-M-BA	
	Yellow	LUS20-Y-BA	
	Black	LUS20-K-BA	
	White	LUS20-W-BA	

Software

Raster Link 7

Combination of upgraded usability and functionality
- Improves reproducibility of special effects (such as transparency) of PDF data
- Increases RIP processing speed of PDF data by 25% on average
- Prints out the variable data by Variable print function
- Displays frequently used setting and pop-up windows

Print speed

UCJV300 Series (4C 1Layer) LUS-170/LUS-200

Model			UCJV300-75	UCJV300-107	UCJV300-130	UCJV300-160
Print mode			Print speed (㎡/h)			
Draft	300x600 4P	Bi/STD	18.0	21.5	24.0	25.8
High Speed	300x900 6P	Bi/STD	14.2	17.0	19.1	20.6
Standard	600x600 8P	Bi/Hi	10.8	13.0	14.6	15.7
Quality	600x1200 16P	Bi/Hi	5.6	6.7	7.5	8.0
High Quality	1200x1200 16P	Bi/Hi	3.5	4.1	4.5	4.7

UCJV300 Series (5C/6C/7C 1Layer) (LUS-170-6C/7C LUS-200-5C)

Model			UCJV300-75	UCJV300-107	UCJV300-130	UCJV300-160
Print mode			Print speed (㎡/h)			
Draft	300x600 8P	Bi/STD	9.6	11.3	12.6	13.4
High Speed	300x900 12P	Bi/STD	7.4	8.9	9.9	10.6
Standard	600x600 16P	Bi/Hi	5.6	6.7	7.5	8.0
Quality	600x1200 32P	Bi/Hi	2.9	3.4	3.8	4.0
High Quality	1200x1200 32P	Bi/Hi	1.8	2.1	2.3	2.4

UCJV300-160 (5C/6C/7C Multi layers) (LUS-170-6C/7C LUS-200-5C)

Model			2 layer	3 layer	4 layer	5 layer
Print mode			Print speed (㎡/h)			
High Speed	300x900 12P	Bi	5.4	3.6	2.7	2.1
Standard	600x600 16P	Bi	4.0	2.7	2.0	1.6
Quality	600x1200 32P	Bi	2.0	1.3	1.0	0.8
High Quality	1200x1200 32P	Uni	1.2	0.8	0.6	0.5

⚠ **Inks and substrates:**
- Please note that properties and adhesion, weather resistance, etc. of ink and substrates can vary. Please test materials before printing.
- Some substrates require primer before printing. Please test materials beforehand or ask your sales representative.

⚠ **Safety notice:** These printers produce UV radiation.
To protect your health, please observe the following guidelines carefully:
- Do not look directly into the UV light source, or expose your skin (such as your hands) directly to the UV light source.
- Depending upon the print mode, some VOCs could be emitted from printed area not yet cured and hardened.
- In addition, please read and follow the instructions and guidelines of the manual carefully.

●Some examples shown in this catalogue are artificial renderings. ●Specifications, designs and dimensions shown in this catalogue may be subject to change without notice for technical improvements. ●The corporate and merchandise names in this catalogue are the trademarks or registered trademarks of the respective corporations. ●Inkjet printers use extremely fine dots, so colors may vary slightly after replacement of print heads. ●Also note that when using multiple printer units, colors could vary slightly from one unit to another due to slight individual differences.●Please note that descriptions and data in this catalogue are as of July 2022.

Mimaki Green Technology · ENERGY STAR · GREENGUARD

UCJV300 Series

Leading the Future of Sign Graphics through

UV Innovation

UV-LED print
enhancing the work efficiency

Immediate processing and deliver are available by UV-LED.

With the UV ink property of immediate curing upon UV light irradiation, no drying time is required. The post-processing and sign applying are possible instantly. Required time for production is saved to be possible to undertake even an order of tight scheduled work. It is immune from ink blocking while printing by multi layers or using white ink. There is no necessity to mind media stains nor to attend by operator.

Ink is instantly cured by UV irradiation just upon the print.

	1st day			2nd day	
UCJV300	Printing	Laminating	Applying	Max. 90% of production time is saved !	
Solvent printers	Printing	Drying (24 h)		Laminating	Applying

UV-LED print mechanism

UV Curing ink — Pigment / UV Curing component — Media → Ink applying → UV irradiation → Cured ink is making coated film. Pigment is fixed on the media surface.

Ecological
newly developed ink
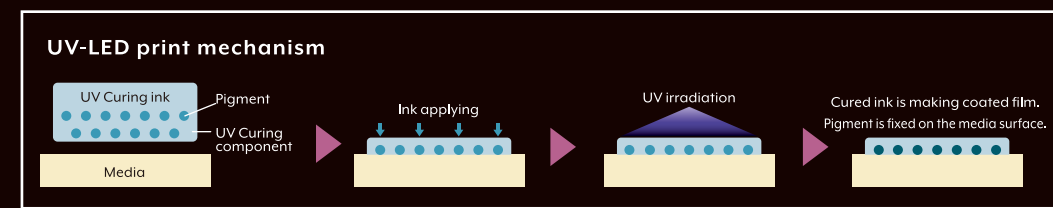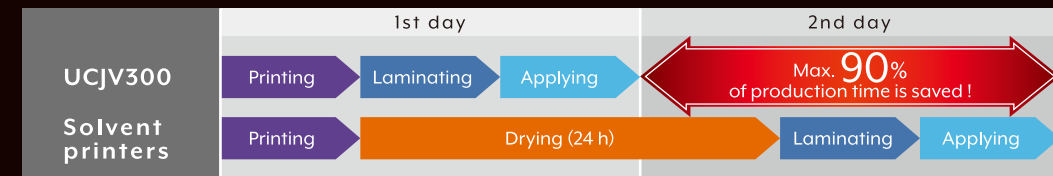
Newly developed environmentally friendly UV ink, [LUS-170]

The new [LUS-170] ink is environmentally friendly, generates almost no VOCs and can be cured without the use of ozone-causing short-wavelength UV. The yellow ink of [LUS-170] is eco-friendly and nickel-free though the nickel is used in some general yellow inks.

### Flexible UV ink with the stretch ability up to 200%, [LUS-200]

The [LUS-200] ink has the stretch ability up to 200%. This capability suits stretch film applications such as vehicle wrapping. Printed films can be applied onto curved surface successively without ink cracking. [LUS-170] and [LUS-200] gained the [GREENGUARD Gold] certification, which is based on most strict global standard of chemical substance diffusion. The GREENGUARD Gold certification assures the product property conforms to schools and medical facilities.

GREENGUARD — PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS UL.COM/GG UL 2818 — GOLD

A wide range of materials
×
UV ink

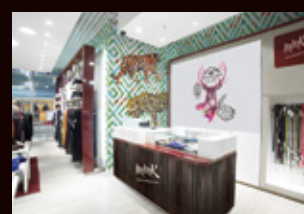### Printing is possible on a wide range of materials!

UV ink is printable to PVC and tarpaulin which are compatible with solvent, as well good matching with fabric, non specified ink receiving paper and PET.More varied applications with UCJV300 Series due to mountable white ink.
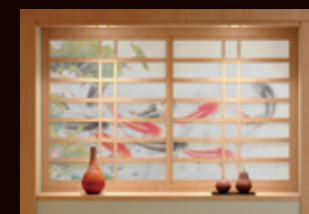
Shoji (Japanese paper)

Banner flag

Wall paper
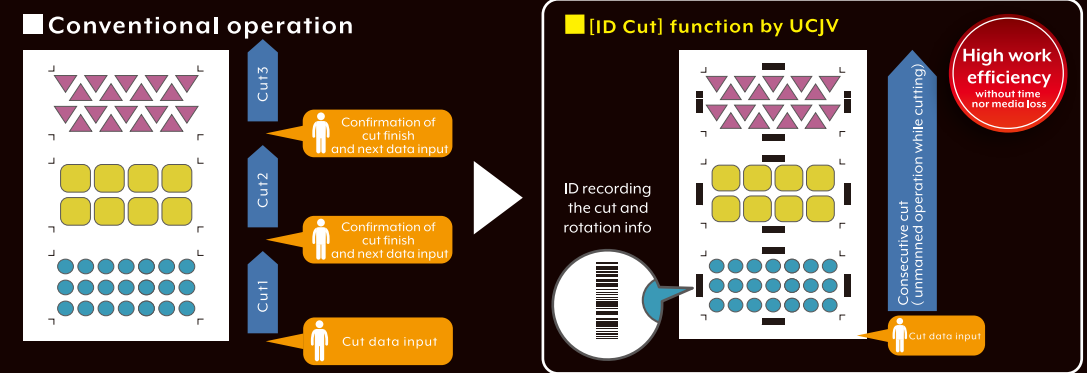(Illustration or letters print to the pattern printed wall paper)

Immediate materializing an image idea by
Print & Cut

[UCJV Series] are equipped with cutting function of high performance and high efficiency to be able to make labels, stickers and car wrapping film by one unit only.

[ID Cut] can help to cut easily even for multiple types data of small lot of each.

[ID Cut] is to print together ID (Barcode) for recognition of cutting details and media rotation with crop marks while placing the crop mark on the RIP. And then cut data of every print data is readable to start cutting automatically. Then with this function, cutting starts without any respective cutting order by operator at RIP software. It saves media losses by failure of data transmission.

■ Conventional operation — Cut1 / Cut2 / Cut3 — Confirmation of cut finish and next data input — Cut data input

■ [ID Cut] function by UCJV — ID recording the cut and rotation info — Consecutive cut (Laminated operation while cutting) — Cut data input — **High work efficiency** without time nor media loss

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UV printing
×
Print & Cut
to broaden the range of applications.

Broad range of applications

Print & Cut with instant drying UV-curable ink can broaden the range of applications.
Store decorations, posters, labels, stickers, and point-of-sale items can all be produced with a single unit.
Integrated promotional approach will suit the method and image of marketing and expand business opportunities.

Eye-catching seal

Product sticker

Label

Swing type POP

Expression selectable
UV Clear ink

UV Clear ink widening the scope of design and business possibility

LUS-170 Clear ink is available with UCJV300 Series.
The superior function [Mimaki Clear Control] equipped with UCJV300 Series can achieve beautiful clear printing suppressing the dust adherence and bubble generation by processing the clear ink print and UV-light irradiation simultaneously.
There are two types of print modes you can choose from depending on your purpose: [glossy finish] of sense of class given by shiny sheen and [matte finish] producing a muted matting effect.
Moreover, by installing RasterLink7 attached to the UCJV300 Series, [ARTISTA UV Texture Library] with 129 types of swatches in Adobe Illustrator can be used. The Library provides plenty of textures to widen the scope of design and business possibility.
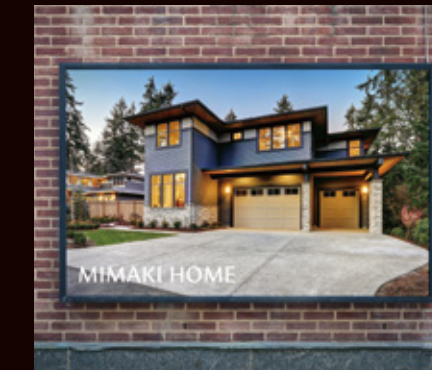
Sizzling effect by glossy finish
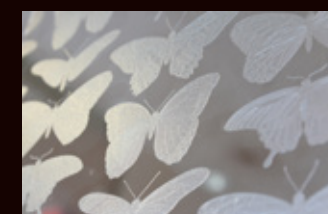
Window display like frosted glass by matte finish

Expressive design to stimulate touching intention by clear texture

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Multi-layer print
for a new advertisement expression

Four-layer print [Day&Night Printing]

A very new advertising expression with showing different image effect between daytime and nighttime which can be created by four-layer print*. [Day & Night Printing], a visible design change is presented by backlighting of four-layer print of [Color]+[Black]+[White]+[Color]. A proposal of highly designed sign can be put forward without any retouches of current simple light box but just ON/OFF of internal lamp. It can make a graphic change or an illumination of specified area etc.

4th layer — Color layer: usually visible
3rd layer — White layer: enhancing coloring of the color layer
2nd layer — Black layer: covering the image coming up when illuminated by backlight
1st layer — Color layer: visible only when lighting from backside.

MIMAKI HOME

[Back light OFF] Visible image in daytime. Only 4th layer is visible.

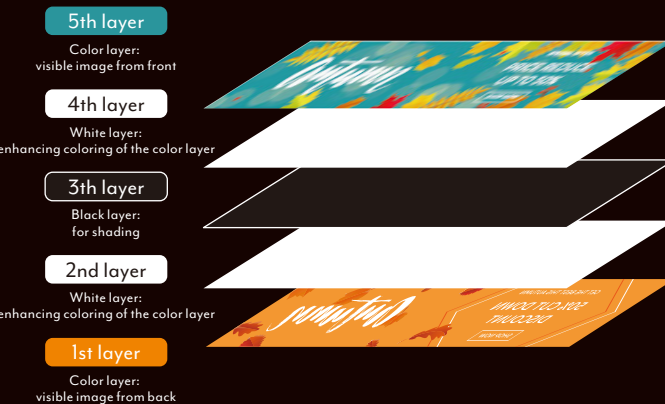**[Back light ON]** Visible image in nighttime. By backlighting, the color image of 1st layer is coming up.

Five-layer print [Front&Back Printing]

Different printed design can appear on the "Front and Back" by one time print.

By printing on a transparent film with five layers, the [Front&Back Printing] of different design on the two sides is realized.
A different image of indoor and outdoor of one window sign, etc. , it is a new proposal of more attractive sign with higher design property.

5th layer — Color layer: visible image from front
4th layer — White layer: enhancing coloring of the color layer
3th layer — Black layer: for shading
2nd layer — White layer: enhancing coloring of the color layer
1st layer — Color layer: visible image from back

Outside

Inside