Print & Cut
LED-UV Curable Inkjet Printer

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

UCJV300 Series
"High-spec" models applying the 4-layer/5-layer print

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.

UCJV150-160

Entry model for LED-UV Print & Cut
Superior cost-effectiveness 1.6 meter width model to fulfill customer various demands.

Specifications

Item		UCJV300-75	UCJV300-107	UCJV300-130	UCJV300-160	UCJV150-160
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 LUS-170				
	Color	4C (C , M , Y , K) / 7C (C , M , Y , K , Lc , Lm , W)				4C (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		φ250mm or less				
Media roll weight		40kg (88.2 lb) 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) x2				
Power consumption		AC100V : 1.44kW / AC200V : 1.92kW x2 or less				
Operational environment		Temperature : 20-30 degC / 68-86degF, humidity : 35-65% Rh (No condensing)				
Outside dimensions	mm	2,090 × 776 × 1,475	2,380 × 776 × 1,475	2,650 × 776 × 1,475	2,900 × 776 × 1,475	
W × D × H	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	183 / 403.4

*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
LED-UV ink LUS-170	Cyan	LUS17-C-BA	1L bottle
	Magenta	LUS17-M-BA	
	Yellow	LUS17-Y-BA	
	Black	LUS17-K-BA	
	White	LUS17-W-BA	
	Light Cyan	LUS17-LC-BA	
	Light Magenta	LUS17-LM-BA	

Software

Newly upgraded RIP software with higher functionality and more user-friendliness

RasterLink6 PLUS

Added useful functions
◆[ID Cut] for consecutive cutting
◆[Multi layers print] for wider expressiveness
◆[Braille print] for easy operation of braille print

PDF including transparent effect is applicable.
◆PDF data image with transparent effect is faithfully printable as the original.

Print speed

UCJV300 Series (4C 1Layer)

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

UCJV150-160 (4C 1Layer)

Model			UCJV150-160
Print mode			Print speed (㎡/h)
Draft	300x600 8P	Bi/STD	13.4
High Speed	300x900 12P	Bi/STD	10.6
Standard	600x600 16P	Bi/Hi	8.0
Quality	600x1200 32P	Bi/Hi	4.0
High Quality	1200x1200 32P	Bi/Hi	2.4

UCJV300 Series (6C+WW 1Layer)

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	2.4	2.2	2.0	1.8

⚠ Inks and substrates:

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

⚠ Safety notice: The UV radiation producing device is installed to this product. To protect your health, please follow below guidelines strictly;

- 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, there might occur some VOC emittance from printed parts not yet cured and hardened.
- In addition, please read the instructions and guidelines of the manual carefully and follow those.

●Some of samples in this catalogue are artificial renderings. ●Specifications, design and dimensions stated in this catalogue may be subject to change without notice for technical improvements etc.
●The corporate names and merchandise names written in this catalogue are the trademark or registered trademark of the respective corporations. ●Inkjet printers print using extremely fine dots, so colors may very slightly vary after replacement of print heads. ●Also note that if using multiple printer units, colors could vary slightly from one unit to other(s) due to slight individual differences.
Please note that descriptions and data in this catalogue are as of April 2018.

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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.		

DB10339-03

For SIGN GRAPHICS

Print & Cut LED-UV Curable Inkjet Printer

Mimaki

UCJV300 Series
UCJV300-75/107/130/160
UCJV150-160

Leading the Future of Sign Graphics through
UV Innovation

Mimaki Green Technology

ENERGY STAR

GREENGUARD GOLD

UCJV300series
UCJV150-160

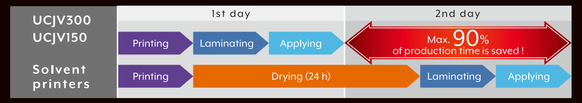
Leading the Future of Sign Graphics through
UV Innovation

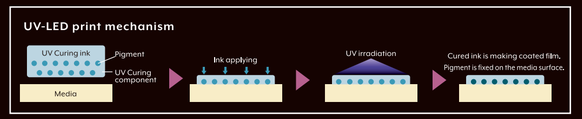
UV-LED print
enhancing the work efficiency

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.





Ecology
by the newly developed ink

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

Newly developed ink, [LUS-170] adaptive to environment, generates hardly VOC and can cure without the irradiation of short wavelength UV causing ozone. [LUS-170] yellow ink is eco-friendly and nickel free though general yellow inks are compounding it. [LUS-170] acquired the [GREENGUARD Gold] certification, which is based on most strict global standard of chemical substance diffusion, assuring the product property conforms to schools and medical facilities. It is surely considered to environment and safety.

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

Immediate materializing an image idea by Print & Cut

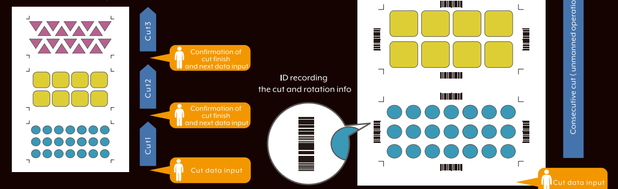
[UCJV Series] are equipped with cutting function of high performance and high efficiency to be able to make labels, stickers and car wrapping film by one unit only.

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

High work efficiency without time nor media loss

[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



■ [ID Cut] function by UCJV

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

Possible to print the 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)

Broadening the application

Print & Cut with UV curable ink of instant drying can broaden the application.
Store decoration, poster, label, sticker and point-of-purchase items making is available by one unit only.
Integrated promotional approach will suit the method and image of marketing and expand the business opportunities.

Hanging type POP

Instore sign

Eye-catching seal

Product sticker

Label

Swing type POP

UCJV300/150 Series equipped with multiple cutting functions of high performance

Not only poster and sign, also label and sticker making is available by one unit only.
Selectable excellent cutting functions are equipped to match customers job.

Versatile cutting functions

[Continuous registration mark detection]
[Over Cut/Corner Cut] for cutting sharply on preventing an occurrence of uncut
[Intermediate Cut] for a correct cut of long outline by multiple corrections of position with intermediate registration marks
[Register mark of Zero margin] for saving media losses to eliminate the margin between register marks

Multi-layer print
for a new advertisement expression
(Available for UCJV300 Series only)

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.

* Four-layer print is available only to UCJV300 series that white ink is mountable.

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.

[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