CJV300 Series

High-speed, integrated printer/cutter…

RasterLink 6
Intuitive and user-friendly operation

Sophisticated RIP Software maximizes performance

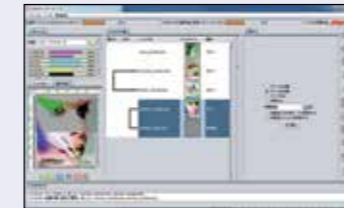1. Easy to follow icons enable intuitive and user-friendly operation

2. Related settings feature in one window to simplify RIP operations with 'Register as Favourite' option available for regularly used layouts

3. Printing progress can be monitored on the main screen

3-layer printing
Enables simultaneous 3-layer printing: e.g. Colour → White → Colour

Web update function is supported:
This facility enables easy program updates and profile downloading to be performed via the internet.

Versatile Print and Cut Function delivers amazing creative production capability from a single machine…

The multiple functions of the CJV300 models ensure high-quality printing and high-accuracy cutting enabling the production of labels, stickers and vehicle wraps with ease.

Continuous-register mark-detection function enables continuous media cutting.
The CJV300 automatically detects all register marks set by RasterLink6 on the media, and cuts contour lines precisely by utilising simultaneous automatic calibration.

Print and cut on no-register mark media / Cut and print function
Media up to 1m in length does not require register marks, reducing media wastage.

Segment correction function facilitates precision cutting over longer-length prints.
This function detects intermediate register marks and enables four-point corrections for each segment to ensure accurate contour cutting over longer-length prints, even if the image is distorted.

Over-cut and corner-cut functions ensure clearly cut edges with no residues.
The over-cut function ensures sharply cut edges with no residues by making a cross cut at the start and end positions of the contour cutting. The corner-cut function ensures sharply cut edges by making cross cuts at each corner.

Clamp-pressure automatic-switching function enables continuous operation.
The pressure of the media clamps is automatically optimised for printing and cutting. No pressure adjustment by the operator is required during continuous operation.

"Cut and Print" function improves the workability of thin materials.
This function prevents common problems, such as film separation and faulty cut results, by cutting the media before printing.

Versatile cutting methods satisfy a range of market demands.
"Half-cut" produces a series of half and die cuts, leaving a few connection points that retain the printed image on the medium. "Die cut" completely cuts the printed image from the medium. "Perforation cut" is useful for clipping images from the medium, used as crease lines.

Specifications

	CJV300-130	CJV300-160
Print head	On-demand piezo head (staggered dual-head)	
Resolution	360 dpi, 540 dpi, 720 dpi, 1,080dpi, 1,440 dpi	
Ink type	Solvent ink: SS21/BS3 Water-based sublimation ink: Sb53	
Ink colour	SS21: 10-colour (CMYK Lc Lm Lk Or W Si), BS3 (CMYK) Sb53 (BL, M, Y, K, DK, LBL, Lm)	
Ink capacity	SS21:440ml cartridge/2L ink pack (W & Si: 220ml cartridge only) BS3: 600ml ink pack / 2L ink pack Sb53: 440ml cartridge/2L ink pack	
Max. printing width	Max.1,361mm	Max.1,610mm
Max. media width	Max.1,371mm	Max.1,620mm
Media thickness	1.0mm or less	
Roll weight	40kg or less	
Outside dimension	2,525mm(W) x 700mm(D) x 1,392mm(H)	2,775mm(W) x 700mm(D) x 1,392mm(H)
Body weight	167kg	178kg
Power supply	2x Single phase (AC100–120V/220–240V +/-10%) 50/60Hz±1Hz	
Power consumption	1,440Wx2 or less (100V) / 1,920Wx2 or less (200V)	
Applicable standards	VCCI class A / FCC class A / CE Marking (EMC, Low Voltage Machinery) / CB report / UL60950-1ETL / RoHS / REACH / CCC (pending) / Energy Star / RCM	
Operational environment	Temperature: 20–30 °C (68–86 °F) Humidity: 35–65% Rh (Non condensing)	

Supplies

Item	Colour	Item No.	Remarks
SS21	Cyan	SPC-0501C	440ml Ink cartridge
	Magenta	SPC-0501M	
	Yellow	SPC-0501Y	
	Black	SPC-0501K	
	Light Cyan	SPC-0501LC	
	Light Magenta	SPC-0501LM	
	Orange	SPC-0501Or	
	Light Black	SPC-0501Lk	
	White	SPC-0504W-2	220ml Ink cartridge
	Silver	SPC-0504Si	220ml Ink cartridge
	Cyan	SPC-0588C	2,000ml Ink pack
	Magenta	SPC-0588M	
	Yellow	SPC-0588Y	
	Black	SPC-0588K	
	Light Cyan	SPC-0588LC	
	Light Magenta	SPC-0588LM	
	Orange	SPC-0588Or	
	Light Black	SPC-0588Lk	
BS3	Cyan	SPC-0667C	600ml Ink pack
	Magenta	SPC-0667M	
	Yellow	SPC-0667Y	
	Black	SPC-0667K	
	Cyan	SPC-0693C	2,000ml Ink pack
	Magenta	SPC-0693M	
	Yellow	SPC-0693Y	
	Black	SPC-0693K	
Sb53	Blue	SB53-BL-44	440ml Ink cartridge
	Magenta	SB53-M-44	
	Yellow	SB53-Y-44	
	Black	SB53-K-44	
	Deep Black	SB53-DK-44	
	Light Blue	SB53-LBL-44	
	Light Magenta	SB53-LM-44	
	Blue	SB53-BL-2L	2,000ml Ink pack
	Magenta	SB53-M-2L	
	Yellow	SB53-Y-2L	
	Black	SB53-K-2L	
	Deep Black	SB53-DK-2L	
	Light Blue	SB53-LBL-2L	
	Light Magenta	SB53-LM-2L	

Mimaki

SG
SIGN & GRAPHICS

Mimaki
The world imagines… Mimaki delivers

![Mimaki]

State-of-the-art integrated printer/cutter for creative applications

Mimaki's latest integrated printer/cutter delivers new levels of creativity with versatile and vibrant ink types, including new Silver, Orange and Light Black. CJV300 Series achieves the highest print speeds in its class, with innovative technologies ensuring unrivalled output quality for signmakers, display graphics professionals and printshops.

ENGINEERING EXCELLENCE AND CREATIVE INNOVATION

Founded in Japan in 1975, Mimaki Engineering has steadily grown by reputation and influence into a global company with large operational bases in Asia and the Pacific, United States and Europe.

Renowned for award-winning performance, peerless build quality and innovative technology, Mimaki has established itself as a leading manufacturer of wide-format inkjet printers and cutting machines for the sign and graphics, textile and apparel and industrial markets. In addition, Mimaki also provides a comprehensive range of supporting products; hardware, software and associated consumable items, such as inks and cutting blades.

From outdoor signage and billboards to interior decoration and furnishing, from packaging and labels to promotional gifts and apparel, Mimaki is committed to developing technology that sets new industry standards, producing machines and products that turn the imagination of our customers into breath-taking reality.

··· Mimaki delivers

CJV300 series delivers …

CJV300 Series
CJV300-130/160

- Fast printing speeds up to 105.9m² per hour
- High quality print resolution of up to 1,440dpi
- Two different printing widths: 1,361mm and 1,610mm
- Choice of multiple eco-solvent and dye sub ink sets:
  - 10-colour options (SS21) including; Silver, Orange, Light Black & White inks
  - Vibrant 6-colour dye sub options (Sb53)
- Nozzle Check Unit (NCU) and Nozzle Recovery System (NRS) ensure continuous print operations
- UISS and optional MBIS III on board 2 litre bulk ink system
- 3-way intelligent heater

| SOLVENT & DYE SUB INKS |
| 2 PRINT WIDTHS AVAILABLE |
| 1,440DPI MAX RESOLUTION |
| MAPS3 PRINT ENHANCEMENT FUNCTION |
| 105.9m²/h MAX. SPEED |

Create ··· Metallic stickers, Decals, Die-cut labels, Signage, Vehicle graphics, Banners, Posters, PoS, Backlit & Exhibition graphics, Garment marking, Canvas prints and much more…

EASE OF USE

Productivity maintenance - NRS*1
The NRS substitutes defective nozzles with non-defective nozzles until the technician arrives. This feature enables uninterrupted print operations and continuous productivity.
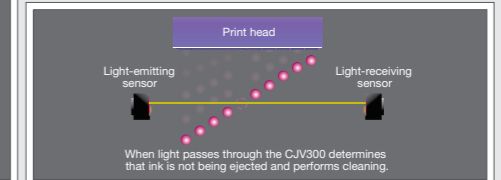*1 NRS: Nozzle Recovery System   *2 10 nozzles per nozzle row can be registered.

Check the location of the clogged nozzle and set nozzle recovery function.*²

Clog occurs — Register nozzle number — Keep on printing continuously

Continue operation with Nozzle recovery.

Prevention, print quality problems - NCU*
The CJV300 is equipped with Mimaki's original automatic NCU. Clogged nozzles are automatically detected and cleaned by the NCU. If the clogging is not resolved by cleaning, the CJV300 automatically sets the nozzle recovery function NRS and resumes printing. These functions significantly reduce the waste printing caused by clogged nozzles during a continuous printing run.
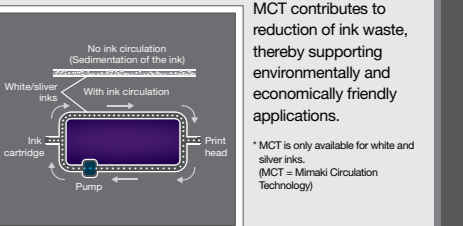* NCU: Nozzle Check Unit

When light passes through the CJV300 determines that ink is not being ejected and performs cleaning.

Stable printing using the ink circulation system - MCT*
MCT is a standard feature included to effectively avoid the settling of white and silver pigments in the ink lines by regularly circulating the ink. It prevents print troubles and enables stable output from the start of operation. In addition, MCT contributes to reduction of ink waste, thereby supporting environmentally and economically friendly applications.
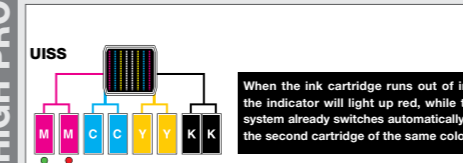* MCT is only available for white and silver inks. (MCT = Mimaki Circulation Technology)

HIGH PRODUCTIVITY
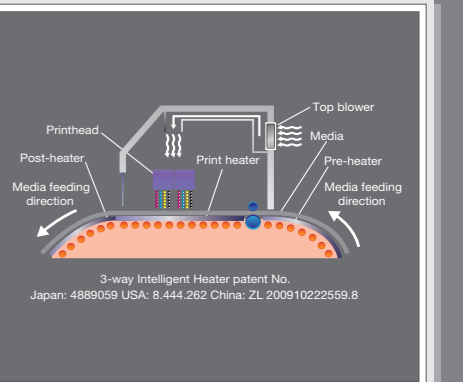
Uninterrupted Ink Supply System (UISS)
Utilises two cartridges per colour in 4-colour mode. When one cartridge runs out of ink the system switches automatically to the second cartridge of the same colour, enabling long unattended printing.

When the ink cartridge runs out of ink, the indicator will light up red, while the system already switches automatically to the second cartridge of the same colour.
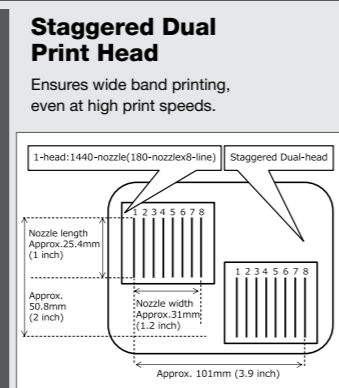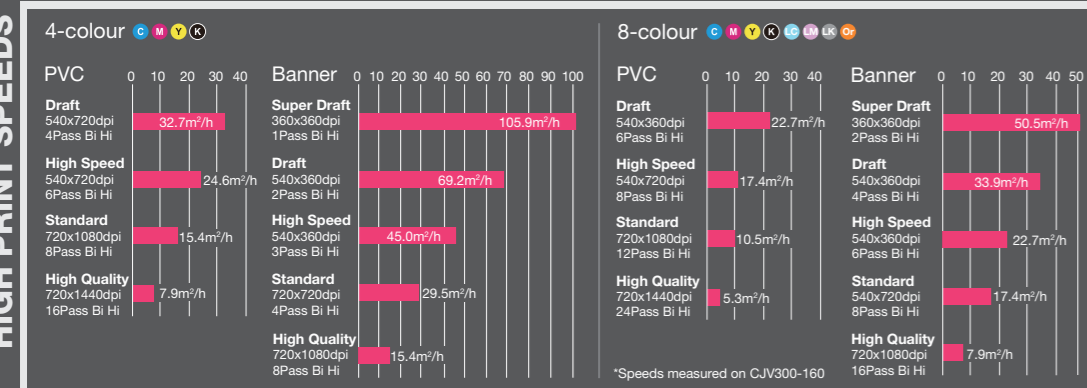
3-Way intelligent heater
A 3-way intelligent heater fixes droplets placed on media. By using Mimaki's original technology in heating the media at a controlled temperature, ink can be fixed while maintaining high colour development and high image quality. Thus the CJV300 provides both steady colour development and easy handling after printing.

- Pre-heater: Heats media to the optimum temperature before printing.
- Print heater: Dries ink after it lands on media before it bleeds, improving colour development.
- Post-heater: Enhances ink drying and achieves stable take-up.
- Top blower: Air blower supports drying of ink.

3-way Intelligent Heater patent No.
Japan: 4889059 USA: 8.444.262 China: ZL 200910222559.8

KEY TECHNICAL FEATURES ···

HIGH PRINT SPEEDS

4-colour

PVC

Mode	Resolution	Pass	Speed
Draft	540x720dpi	4Pass Bi Hi	32.7m²/h
High Speed	540x720dpi	6Pass Bi Hi	24.6m²/h
Standard	720x1080dpi	8Pass Bi Hi	15.4m²/h
High Quality	720x1440dpi	16Pass Bi Hi	7.9m²/h

Banner

Mode	Resolution	Pass	Speed
Super Draft	360x360dpi	1Pass Bi Hi	105.9m²/h
Draft	540x360dpi	2Pass Bi Hi	69.2m²/h
High Speed	540x360dpi	3Pass Bi Hi	45.0m²/h
Standard	720x720dpi	8Pass Bi Hi	29.5m²/h
High Quality	720x1080dpi	8Pass Bi Hi	15.4m²/h

8-colour

PVC

Mode	Resolution	Pass	Speed
Draft	540x360dpi	6Pass Bi Hi	22.7m²/h
High Speed	540x720dpi	8Pass Bi Hi	17.4m²/h
Standard	720x1080dpi	12Pass Bi Hi	10.5m²/h
High Quality	720x1440dpi	24Pass Bi Hi	5.3m²/h

Banner

Mode	Resolution	Pass	Speed
Super Draft	360x360dpi	2Pass Bi Hi	50.5m²/h
Draft	540x360dpi	4Pass Bi Hi	33.9m²/h
High Speed	540x360dpi	6Pass Bi Hi	22.7m²/h
Standard	540x720dpi	8Pass Bi Hi	17.4m²/h
High Quality	720x1080dpi	16Pass Bi Hi	7.9m²/h

*Speeds measured on CJV300-160

Staggered Dual Print Head
Ensures wide band printing, even at high print speeds.

1-head:1440-nozzle(180-nozzlex8-line) | Staggered Dual-head

Nozzle length Approx.25.4mm (1 inch)
Approx. 50.8mm (2 inch)
Nozzle width Approx.31mm (1.2 inch)
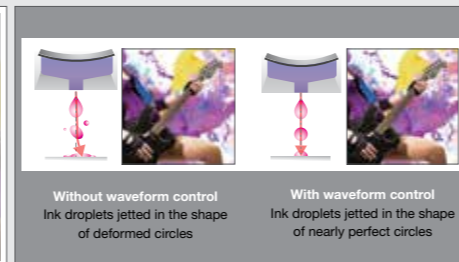Approx. 101mm (3.9 inch)

BEAUTIFUL OUTPUT

MAPS3 (Mimaki Advanced Pass System 3)
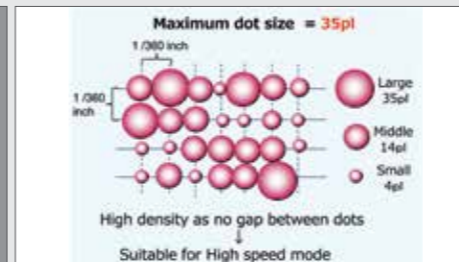Reduces banding by dispersing ink drops between passes.

Waveform Control Technology
Ensures high quality print resolution, by jetting ink drops in straight lines with almost perfect round dots, delivering clear and sharp letters, lines and edges.

Without waveform control
Ink droplets jetted in the shape of deformed circles

With waveform control
Ink droplets jetted in the shape of nearly perfect circles

Large ink dot size in high speed mode
Delivers high density print by removing the gap between dots.

Maximum dot size = 35pl

1/360 inch
1/360 inch

Large 35pl
Middle 14pl
Small 4pl

High density as no gap between dots

Suitable for High speed mode

CREATIVITY

Silver Ink (For brilliant metallic effects)
Newly developed SS21 silver ink is available. Being 1.67* times brighter than conventional silver inks, SS21 ink adds brilliant and beautiful mirror effects to print results.
*Obtained from comparison measurements of SS21 and ES3 silver inks conducted at the Mimaki HQ

Silver colour added to catch copies and logos strikes a profound impression on the viewers. This makes silver printing very appealing.

The intensity of brightness in the silver ink varies as per the viewing angle. Such a high level of brightness attracts the viewer.

Orange Ink (Faithful colour reproduction)
By using the orange ink as a process colour, 94.8% of the PANTONE colour chart is covered with approximate colours. Thanks to a wider gamut with the orange ink, food freshness can be simulated, and corporate colours can be faithfully represented.

Conventional ink-set

Ink-set including the orange ink

Light Black Ink (greater definition)
The light black ink improves the printed grayscale gradation. It also faithfully represents monochrome data without introducing unexpected colour shifts. Light black ink ensures a more accurate colour representation.

Conventional ink-set

Ink-set including the light black ink