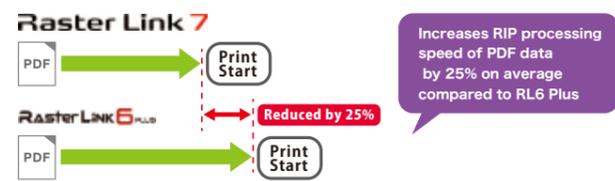# Raster Link 7

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

Roll to Roll Eco-solvent Inkjet Printer

Mimaki™

JV100-160

1 PDF data with a lot of special effects embedded

PDF — Transparency
PDF — Gradations

Raster Link 7

Processes and prints out precisely without any problem

2 Increases RIP processing speed of PDF data by 25% on average

Raster Link 7 — PDF — Print Start

Raster Link 6 PLUS — PDF — Print Start — **Reduced by 25%**

Increases RIP processing speed of PDF data by 25% on average compared to RL6 Plus

3 Variable print function

Basic design

Name	ID
• Taro MIMAKI	• 0001
• Hanako MIMAKI	• 0002
• Jiro MIMAKI	• 0003

+ Photo =

Taro MIMAKI 0001 / Hanako MIMAKI 0002 / Jiro MIMAKI 0003

4 Easy-to-check displays

Integrates favorite settings on one screen

Displays pop-up window at an error

Details of "favorite settings" can be checked on the dedicated screen

Expert printing made easy.

JV100-160

■ Print speed

PVC 4C				PVC 8C				Tarpaulin 4C				Tarpaulin 8C			
Print mode			Print speed(m²/h)	Print mode			Print speed(m²/h)	Print mode			Print speed(m²/h)	Print mode			Print speed(m²/h)
Draft	720×600 4P	Bi Hi	27.4	Draft	720×600 4P	Bi Hi	13.7	Super Draft	300×600 2P	Bi Std	62.9	Super Draft	360×600 2P	Bi Std	31.5
High Speed	720×600 6P	Bi Hi	20.0	High Speed	720×600 6P	Bi Hi	10.0	Draft	300×900 3P	Bi Std	39.5	Draft	300×900 3P	Bi Std	19.7
Standard ①	720×900 8P	Bi Hi	15.5	Standard ①	720×900 8P	Bi Hi	8.4	High Speed	720×600 4P	Bi Hi	27.4	High Speed	720×600 4P	Bi Hi	13.7
Standard ②	720×1200 12P	Bi Hi	11.3	Standard ②	720×1200 16P	Bi Hi	5.0	Standard ①	720×600 6P	Bi Hi	20.0	Standard ①	720×600 6P	Bi Hi	10.0
High Quality	1200×1200 12P	Bi Hi	8.8	High Quality	1200×1200 16P	Bi Hi	3.3	Standard ②	720×900 8P	Bi Hi	15.5	Standard ②	720×900 8P	Bi Hi	8.4
								High Quality	720×1200 12P	Bi Hi	11.3	High Quality	720×1200 12P	Bi Hi	5.6

■ Specifications

Item		JV100-160
Print head		On-demand piezo head (2 staggered layout)
Printing resolution		360 dpi, 600 dpi, 720 dpi, 900 dpi, 1200 dpi
Ink	Type/Color	Eco-solvent ink AS5/SS21 (C,M,Y,K,Lc,Lm,Or,Lk)
	Capacity	600 ml / 2L ink pack
Maximum drawing		1,610 mm (63 in)
Media	Maximum width	1,620 mm (64 in)
	Thickness	1 mm or lower
	Roll diameter	φ250 mm or less
	Roll weight	45kg (99 lb) or less
Interface		USB2.0 / Ethernet 1000BASE-T
Power		Single-phase (AC100-120V±10% / AC200-240V±10%) x2, (50/60Hz±1Hz) x2
Power consumption		AC100V:1.44 kw x2 or less/AC200V:1.92 kw x2 or less
Operational environment		Temperature: 20-30 degC (68-86 degF) Humidity: 35-65%Rh (without condensation)
Dimensions (WxDxH)		2,775 x 700 x 1,392 mm (109 x 28 x 55 in)
Main unit weight		166 kg (366 lb)

Ethernet supported!

Creat a free and efficient working environment

Ex.
Print data editing on an office PC to send the data to print directly to a printer at the work site

■ Supplies

Item	Color	Item code	Remarks
Eco-solvent ink SS21 GREENGUARD Gold certificated ink	Cyan	SS21-C-60	600ml Ink pack
	Magenta	SS21-M-60	
	Yellow	SS21-Y-60	
	Black	SS21-K-60	
	Lignt Cyan	SS21-LC-60	
	Light Magenta	SS21-LM-60	
	Orange	SS21-OR-60	
	Light Black	SS21-LK-60	
	Cyan	SPC-0588C	2L Ink pack
	Magenta	SPC-0588M	
	Yellow	SPC-0588Y	
	Black	SPC-0588K	
	Lignt Cyan	SPC-0588LC	
	Light Magenta	SPC-0588LM	
	Orange	SPC-0588Or	
	Light Black	SPC-0588Lk	
Eco-solvent ink AS5	Cyan	AS5-C-60	600ml Ink pack
	Magenta	AS5-M-60	
	Yellow	AS5-Y-60	
	Black	AS5-K-60	
	Lignt Cyan	AS5-LC-60	
	Light Magenta	AS5-LM-60	
	Orange	AS5-OR-60	
	Light Black	AS5-LK-60	
	Cyan	AS5-C-2L	2L Ink pack
	Magenta	AS5-M-2L	
	Yellow	AS5-Y-2L	
	Black	AS5-K-2L	
	Lignt Cyan	AS5-LC-2L	
	Light Magenta	AS5-LM-2L	
	Orange	AS5-OR-2L	
	Light Black	AS5-LK-2L	
Maintenacne Liquid14		ML014-Z-22	220ml Ink cartridge
MBIS(Mimaki Bulk Ink System) III		OPT-J0364	Ecocase, Mid cartridge, Tube (8pcs/each)

GREENGUARD Gold: Applicable products to this "GREENGUARD Gold certification" are acceptable for use in environments such as schools and medical facilities based on the most strict global standard of chemical substance diffusion.
The MBIS III is required for using 2L ink pack.

Mimaki™
mimaki.com

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Mimaki Global Network

USA	MIMAKI USA, INC.
Brazil	MIMAKI BRASIL COMERCIO E IMPORTACAO LTDA
India	MIMAKI INDIA PRIVATE LIMITED
Taiwan	MIMAKI ENGINEERING (TAIWAN) CO.,LTD.
Singapore	MIMAKI SINGAPORE PTE. LTD.
Europe	MIMAKI EUROPE B.V.
Indonesia	PT. MIMAKI INDONESIA
Australia	MIMAKI AUSTRALIA PTY. LTD.
China	SHANGHAI MIMAKI TRADING CO.,LTD.
Thailand	MIMAKI (THAILAND) CO.,LTD.

GREENGUARD

Mimaki Green Technology

DB10372-02

JV100-160 Expert printing made easy.

The JV100-160 is a new inkjet printer designed based on Mimaki's "high image quality" and "reliability" technology, an expert in inkjet printers for sign graphics, with an emphasis on ease of use and high operability.

All the superior technologies mounted to the JV100-160, such as a new function of DAS that automatically makes adjustments when changing media, the new RasterLink7 RIP software that makes work faster and significantly reduces processing time, and the newly developed AS5 ink with high drying performance will back up your business.

The four UP-graded features for power-up your business

UP!

Function for the high image quality **UP!**	Speed **UP!**	Drying property **UP!**	Reproducibility Ease of use **UP!**
DAS	Faster print of high-quality images **27.4 ㎡/h**	New type Eco-sol ink	Mimaki original RIP
Auto-adjustment of dot position and media feed amount correction by printer	Print mode: by 4C 720×600 dpi (Tarpaulin)	Mimaki original **AS5**	Raster Link 7

DAS (Dot Adjustment System)

Reduces the load of media adjustment for each media exchange and leads to beautiful prints

The function to adjust automatically the dot position and the feed amount that affect print quality as the standard equipment.

After changing a media and a printing condition, the ink dot position and media feeding amount must be adjusted accordingly.
Since DAS automatically applies them, printing can be performed without labor and variation of adjustment by the operator (*1).

* 1 : Some media cannot be automatically applied.

DAS
It is the function to print a dedicated pattern to the media and read by the sensor mounted on the carriage to adjust automatically:
- Dot position (Dot jetting position at the bi-direction)
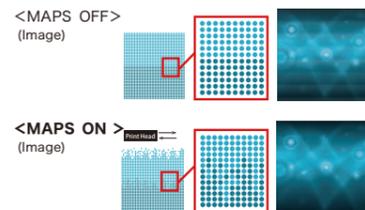- Feeding amount (Media feeding amount)

Improper dot position

Overlap/Black streaks (Insufficient feeding amount)

Gap/White streaks (Excessive feeding amount)

With DAS — Proper dot position and feeding amount

MAPS4   NCU/NRS

Long-standing reliable technology to achieve high image quality by Mimaki of Sign graphics expert

"MAPS4" supported
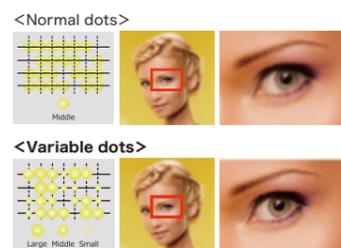(Mimaki Advanced Pass System)
Banding reduction function

By printing the border of the path in a gradation tone, banding (horizontal stripes), uneven color, and glossy stripes are reduced to achieve smooth printing.

<MAPS OFF> (Image)

<MAPS ON> (Image)

Based on printing conditions such as media/ink type and resolution, the most suitable gradation pattern is automatically selected and printed.

Minimum ink size 4pl
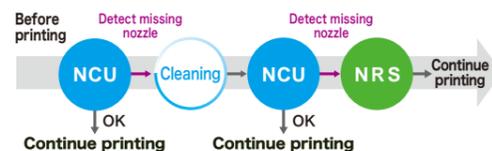**Beautiful print of less granularity feeling**

Three different ink dot sizes are used in printing to enable high-quality print with reduced granular feeling.

<Normal dots>
Middle

<Variable dots>
Large Middle Small

Dots are combined with the minimum size of 4pl to enable smooth color printing with less granular feeling.

NCU/NRS
employed to monitor missing nozzles

The sensor automatically detects the condition of nozzles. When the NCU (Nozzle Check Unit) detects a missing nozzle, it automatically performs cleaning. If there is a nozzle problem left unsolved by the cleaning, NRS (Nozzle Recovery System) automatically replaces the defective nozzles with other nozzles, and enables users to continue their operation without waiting for service personnel.

Before printing → Detect missing nozzle → NCU → Cleaning → NCU → Detect missing nozzle → NRS → Continue printing
OK Continue printing   OK Continue printing

Print Speed

Possible to increase print jobs of short delivery times with reliable high-speed printing

Print Speed High-speed mode: 720x600 dpi

Glossy PVC 20.0 ㎡/h   **Tarpaulin 27.4 ㎡/h**

Prints out 180% faster than JV150*

JV100-160	720×600 6P Bi Hi	20.0㎡/h
JV150-160	720×720 6P Bi Hi	11.1㎡/h 180%

*Comparison at 6 pass 4-Color printing at the similar resolution range as JV150

PVC

4C (C M Y K)
- Draft 720×600 4P — **27.4 ㎡/h**
- Standard 720×900 8P — **15.5 ㎡/h**

8C (C M Y K / LC LM LK Or)
- Draft 720×600 4P — **13.7 ㎡/h**
- Standard 720×1200 16P — **5.0 ㎡/h**

Tarpaulin

4C (C M Y K)
- Super Draft 360×600 2P — **62.9 ㎡/h**
- Standard 720×600 6P — **20.0 ㎡/h**

8C (C M Y K / LC LM LK Or)
- Super Draft 360×600 2P — **31.5 ㎡/h**
- Standard 720×900 8P — **8.4 ㎡/h**

Ink

Beautiful × Speedy × Eco-friendly
Eco-solvent ink of well balanced in every respect

Mimaki's newly developed Eco-sol ink AS5

The AS5 is Mimaki's newly developed ink with high quality and safety which features high drying properties.

Since the ink evaporates quickly after printing, it prevents blocking during winding and reproduces the details perfectly without impairing the detailed depiction in images with a large amount of ink.

Mimaki's reliable & long-seller, SS21 ink can be installed.

Either 4C or 8C of AS5 or SS21 ink can be installed and the 8C ink set consists of CMYKLcLm plus Light black and Orange, which enables extremely beautiful and vivid color expression and sharp, high-definition printing.
By usint Light black, it is possible to faithfully reproduce monochrome data without color transfer on a gray scale, human skin without graininess, and gradation expression without tone jump.

■ Color comparison

CMYK	CMYKLcLmLkOr	CMYK	CMYKLcLmLkOr
·Reddish gray ·Skin expression with granularity	·Not reddish gray ·Skin expression without granularity	Reddish tinge when a gray gradient scale is expressed in CMYK.	Smooth gray gradient scale with LK.

"Eco-Cartridge", an eco-friendly reusable ink cartridge is prepared for AS5 and SS21 ink.

The "Eco Cartridge" is a reusable plastic case to be able to replace an internal ink pack. It aims to lighten the burden on the environment by reducing plastic waste.

The SS21 gained the certification of "GREEN GUARD Gold", based on most strict global standard of chemical substance diffusion. It assures the product property conforms to schools and medical facilities. This ink minimizes the emission of chemical substances in the indoor space and reduces the burden on the global environment.
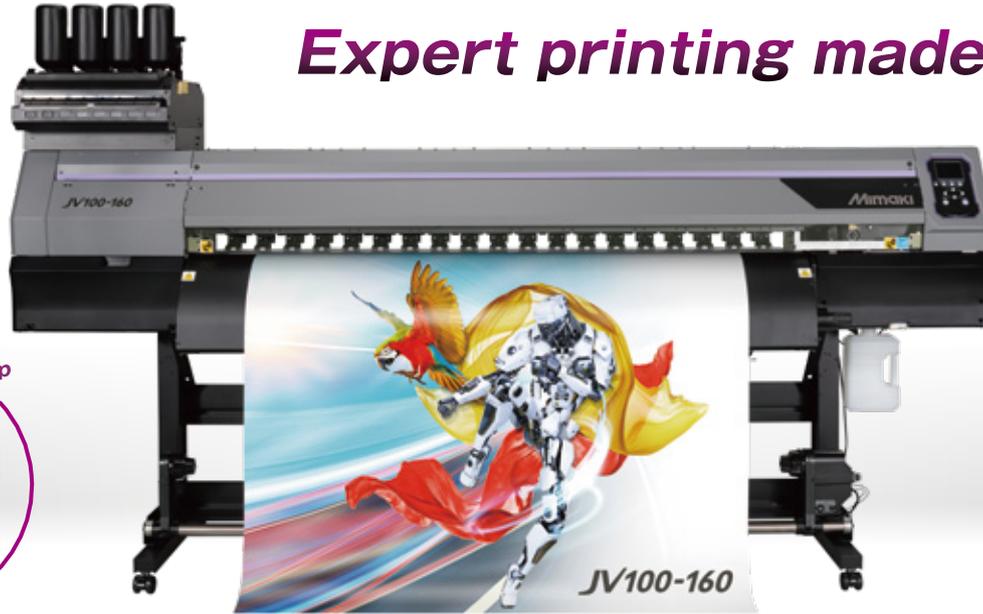
SUSTAINABLE DEVELOPMENT GOALS
12 / 15

GREENGUARD GOLD

Expert printing made easy

JV100-160

The four UP-graded features for power-up your business

UP!

Function for the high image quality UP!

DAS

Automatic adjustment of dot landing position & medium feed comp

Speed UP!

Speedy printing of high-quality images

27.4 ㎡ /h
(294.93 sqft/h)
4C 720x600 dpi 4P
(For Banner)

Drying property grade UP!

New Mimaki's Eco-solvent ink

CS250

Reproducibility of PDF data of special effect Software operability UP!

Mimaki's original RIP

Raster Link
7

Reliable new feature that achieves Mimaki quality

DAS (Dot Adjustment System)

The function to adjust automatically the dot position and the feed amount that affect print quality as the standard equipment.

After changing a media and a printing condition, the ink dot position and media feeding amount must be adjusted accordingly.
Since DAS automatically applies them, printing can be performed without labor and variation of adjustment by the operator (*1).

* 1 : Some media cannot be automatically applied.

DAS
It is the function to print a dedicated pattern to the media and read by the sensor mounted on the carriage to adjust automatically:
- **Dot position**
  (Dot jetting position at the bi-direction)
- **Feeding amount**
  (Media feeding amount)

Improper dot position

Overlap/Black streaks
(Insufficient feeding amount)
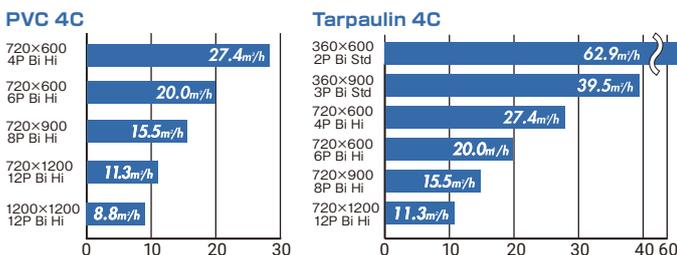
Gap/White streaks
(Excessive feeding amount)

With DAS

Proper dot position and feeding amount

High productivity supported by high-quality functions

Print speed
High Speed 720x600 dpi

Glossy PVC 20.0 ㎡/h   **Tarpaulin 27.4** ㎡/h

PVC 4C

720×600 4P Bi Hi	27.4㎡/h
720×600 6P Bi Hi	20.0㎡/h
720×900 8P Bi Hi	15.5㎡/h
720×1200 12P Bi Hi	11.3㎡/h
1200×1200 12P Bi Hi	8.8㎡/h

0 10 20 30

Tarpaulin 4C

360×600 2P Bi Std	62.9㎡/h
360×900 3P Bi Std	39.5㎡/h
720×600 4P Bi Hi	27.4㎡/h
720×600 6P Bi Hi	20.0㎡/h
720×900 8P Bi Hi	15.5㎡/h
720×1200 12P Bi Hi	11.3㎡/h

0 10 20 30 40 60

Prints out 180% faster than JV150 *

* Comparison of print speed at 6 pass
(media：PVC、Y resolution：720dpi)

JV100-160：20.0 ㎡/h
JV150-160：11.1 ㎡/h

Beautiful×Speedy×Eco-friendly
Eco-solvent ink of well-balanced in every respect

Mimaki's newly developed Eco-sol ink CS250

The CS250 boasts excellent safety and high quality, which is evaluated by waveform created by a printer manufacturer. One of the features is upgraded drying property.

It evaporates quickly after printing and print-outs dry much faster, which prevents blocking and enables reproducing in detail even images that need a lot of ink.

The CS250 is contained in one-liter bottle that allows prolonged operation. it is a green product that abates odor for a better operating environment.

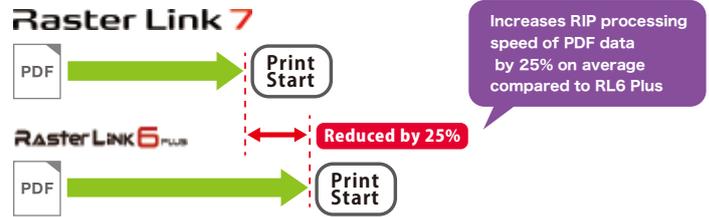**Mimaki**
Green Technology

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
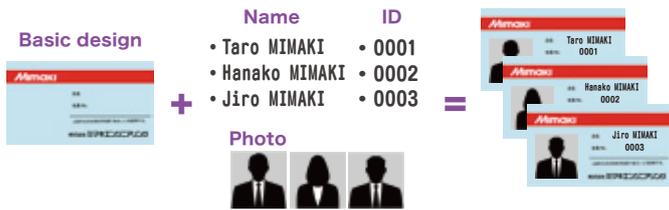- Displays frequently used setting and pop-up windows

① PDF data with a lot of special effects embedded

PDF — Transparency
PDF — Gradations

→ Raster Link 7 →

Processes and prints out precisely without any problem

② Increases RIP processing speed of PDF data by 25% on average

Raster Link 7
PDF → Print Start

Raster Link 6 PLUS
PDF → Print Start

Reduced by 25%

Increases RIP processing speed of PDF data by 25% on average compared to RL6 Plus

③ Variable print function

Basic design

Name	ID
• Taro MIMAKI	• 0001
• Hanako MIMAKI	• 0002
• Jiro MIMAKI	• 0003

Photo

= Taro MIMAKI 0001 / Hanako MIMAKI 0002 / Jiro MIMAKI 0003

④ Easy-to-check displays

Integrates favorite settings on one screen

Details of "favorite settings" can be checked on the dedicated screen

Displays pop-up window at an error

Achieves HIGH QUALITY in image quality, functionality, and productivity

"MAPS4" supported
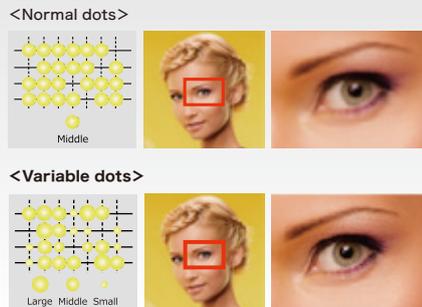(Mimaki Advanced Pass System)
Banding reduction function

By printing the border of the path in a gradation tone, banding (horizontal stripes), uneven color, and glossy stripes are reduced to achieve smooth printing.

<MAPS OFF (Image)>

<MAPS ON (Image)>
Print Head

Based on printing conditions such as media/ink type and resolution, the most suitable gradation pattern is automatically selected and printed.

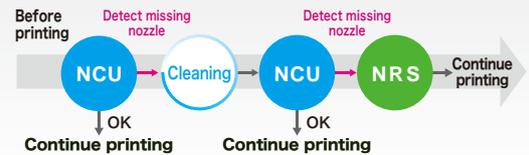### Minimum ink size 4pl
Beautiful print of less granularity feeling

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NCU/NRS
employed to monitor missing nozzles

The sensor automatically detects the condition of nozzles. When the NCU (Nozzle Check Unit) detects a missing nozzle, it automatically performs cleaning. If there is a nozzle problem left unsolved by the cleaning, NRS (Nozzle Recovery System) automatically replaces the defective nozzles with other nozzles, and enables users to continue their operation without waiting for service personnel.

Before printing
Detect missing nozzle
NCU → Cleaning → NCU → NRS → Continue printing
OK Continue printing
Detect missing nozzle
OK Continue printing

■ Specifications

Item	JV100-160
Print head	On-demand piezo head (2 staggered layout)
Printing resolution	360 dpi, 600 dpi, 720 dpi, 900 dpi, 1200 dpi
Ink type	Eco-solvent ink CS250
Ink set	CMYK
Ink capacity	1L bottle
Maximum drawing range	1,610 mm (63.1 in)
Media — Maximum width	1,620 mm (63.8 in)
Media — Thickness	1 mm or lower
Media — Roll diameter	φ 250 mm or less
Media — Roll weight	45 kg (99 lb) or less
Media — Roll inside diameter	2/3 in
Interface	USB2.0 / Ethernet 1000BASE-T
Power	Single-phase AC100-120 / 200-240V±10%, 50/60Hz±1Hz
Operational environement	Temperature:20-30degC(68-86 degF) Humidity:35-65%Rh(without condensation)
Dimensions (W x D x H)	2,775 x 700 x 1,392mm （109 x 28 x 55 in）
Weight	166 kg （366 lb）

■ Supplies

Item	Color	Item code	Remark
Eco-solvent ink CS250	Cyan	CS250-C-BA	1 L bottle
	Magenta	CS250-M-BA	
	Yellow	CS250-Y-BA	
	Black	CS250-K-BA	
Maintenance liquid 14		ML014-Z-BA	