

# Hitachi IJ Printer PXR Series

Micro Characters

Larger Small-size Characters

Pigmented ink

High-Speed Printing



### Compliance with the RoHS Directive

•With the PXR series, the amount of raw materials that affect the environment have been reduced, and the guidelines as set forth in the RoHS directive as issued by the European Union have been followed.

\*The RoHS Directive stands for "the restriction of the use of certain hazardous substances in electrical and electronic equipment". This Directive bans the placing on the EU market of new electrical and electronic equipment containing more than agreed levels of lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyl (PBB) and polybrominated diphenyl ether (PBDE) flame retardants.

### Eco-friendliness and Sanitary

- Varieties of ink types "Chrome-complex dye free ink and ethanol based ink"
- The printer uses the stainless enclosure body that is sanitary, robust and rust resistant, which conforms to the IP55 international safety standards for dust-proof, drip-proof devices.

### The world's fastest, most comprehensive top-level high-speed printer.

- Maximum print speed 345 m/min (Font 5x5, 1 Line, Character pitch 1.5mm)

### Large Panel

- 10.4-inch large TFT liquid crystal touch-panel display.
- Bright, easy-to-see and wide viewing angle.
- The menu select system offers users exceptional ease and simplicity of use.



Viewing angle is drastically increased

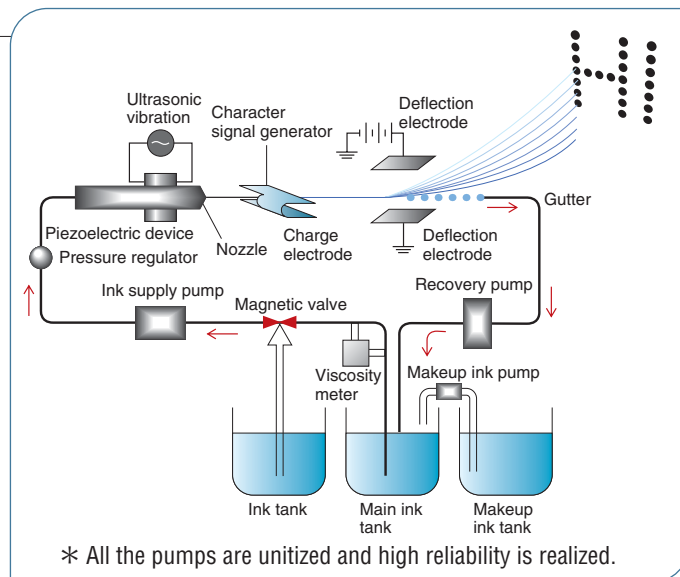
### Memory Card

- A commonly available memory card can be used to store the copied "registered character data" and "print data". Uses the PC Card (Flash ATA Type II (8MB -2GB))

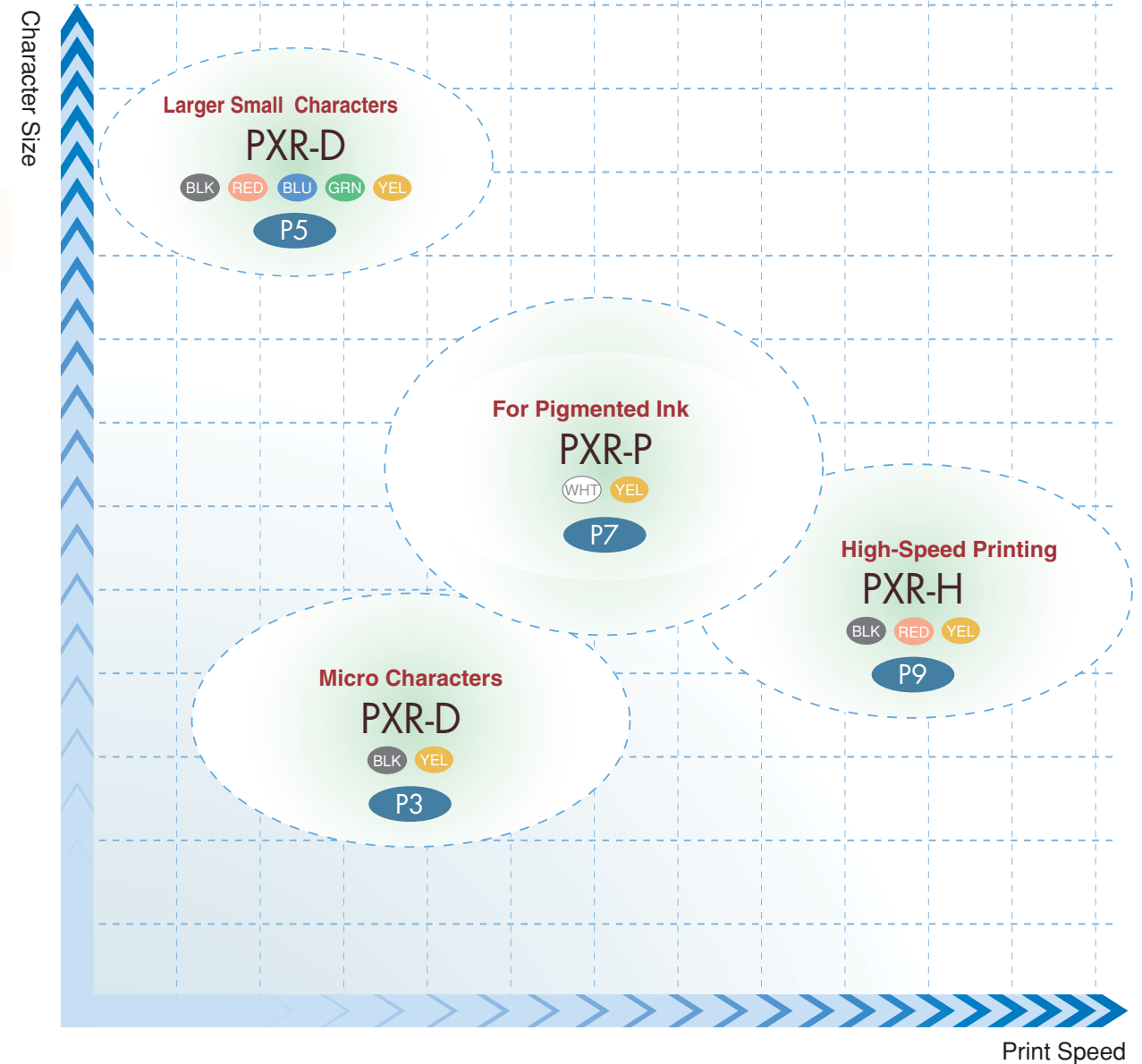


### Principles of the Inkjet Printer

- The ink pulled from the ink reservoir by the supply pump is set to specified pressure by a regulator, and supplied to the nozzle.
- The ink is ejected from the nozzle and is subjected to vibrations by the piezoelectric device to create ink droplets.
- The ink droplets are charged at the charge electrode to create pixels.
- When the charged ink droplets pass through the deflection electrode, they will be deflected in the vertical direction in a quantity determined by the traveling speed and amount of charges applied to each droplet. As the object to be printed on moves in horizontal direction by a conveyer, characters will be printed.
- The ink droplets that are not used for printing are caught by the gutter and recovered into the main ink tank by the recovery pump.
- Ink used for printing is supplied from the main ink tank. Makeup ink is also supplied to the main ink tank to keep the fluid density constant. The inkjet printer runs best when maintaining optimum density control.



### IJ Printer Selection Guide



### Product Lineups



PXR-D  
Micro characters  
Larger Small characters



PXR-H  
High-speed printing



PXR-P  
For pigmented ink

PXR-D 40µm

PXR-D 100µm

PXR-P 65µm

PXR-H 55µm

Software Options  
Application Examples

# PXR-D for Micro Characters

These models are suitable for small markings, such as on small components, wire, etc. in the electric and electronic fields.

## Main Features

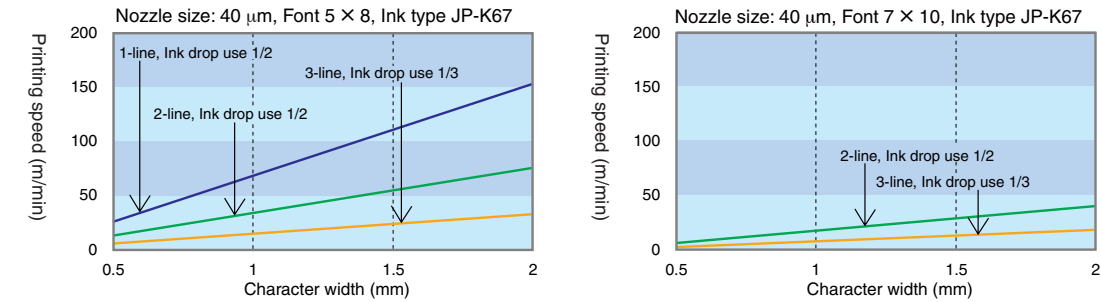
- Printing on products with extremely small marking areas is possible.
- These models are suitable for printing on small components.



## Printing Samples (Full Scale)

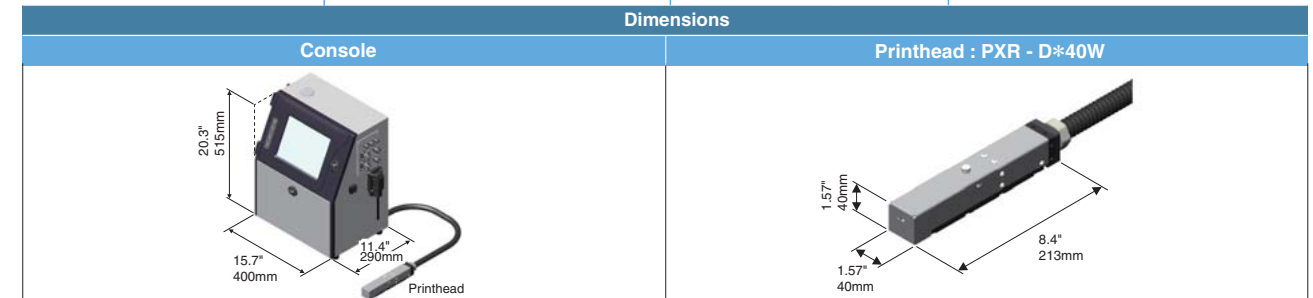
Font	PXR-D240W				PXR-D440W					
	1 LINE	2 LINE	3 LINE	4 LINE	1 LINE	2 LINE	3 LINE	4 LINE		
PXR-D240W	5X5	0123456789ABCDEFGHIJKL	0123456789ABCDEFGHIJ KLMNOPQRSTUVWXYZABCD	0123456789ABCDEFGHI IJKLMNOPQRSTUVWXYZ 0123456789ABCDEFGHI	0123456789ABCDEFGHI IJKLMNOPQRSTUVWXYZ 0123456789ABCDEFGHI IJKLMNOPQRSTUVWXYZ	5X7	0123456789ABCDEFGH	0123456789ABCDEFGH IJKLMNOPQRSTUVWXYZ	0123456789ABCEFGH IJKLMNOPQRSTUVWXYZ 0123456789ABCDEFGHI IJKLMNOPQRSTUVWXYZ	0123456789ABCDEFGHI IJKLMNOPQRSTUVWXYZ 0123456789ABCDEFGHI IJKLMNOPQRSTUVWXYZ
	7X10	0123456789ABCD	0123456789ABCD EFGHIJKLMNOPQR	012345678901234567890123456789 ABCDEFGHIJKLMN01234567890123456789 ABCDEFGHIJKLMN01234567890123456789 ABCDEFGHIJKLMN01234567890123456789		12X16	0123456789ABCDEFGG		0123456789 ABCDEFGHIJ	
	18X24	0123456789ABCDE								
	24X32	0123456789A								

## Printing speed



## Standard Specifications

Printing specifications	
Model	PXR-D240W / PXR-D440W
Nozzle size	40 µm
Max. print line number	Up to 2 Lines / Up to 4 Lines
Maximum number of print characters (each line)	1 Line: Up to 240 characters / 2 Line: Up to 120 characters / 1 Line: Up to 240 characters / 2 Line: Up to 120 characters / 3 Line: Up to 80 characters / 4 Line: Up to 60 characters
Dot matrix (horizontal × vertical)	1-2 Line: 5×5, 5×8 (or 5×7), 7×10 (or 9×7, 9×8) / 1 Line: 12×16 / 1-4 Line: 5×5, 5×8 (or 5×7), 9×8 (or 9×7) / 1-3 Line: 7×10 / 1-2 Line: 12×16, 1 Line: 18×24, 24×32
Character height	0.04 – 0.12 inches / 1 – 3 mm
Display & input device	Display: TFT LCD (10.4 inch, color), backlight provided / Input Device: Touch panel, input sound provided
Screen language / 2 language selectable:	English, Chinese, Korean, Thai, Vietnamese, German, French, Dutch, Italian, Spanish, Portuguese, Swedish, Danish, Greek, Russian, Czech, Polish, Arabic, Serbian, Turkish, Hungarian, Bulgarian and Catalan available
Maximum print rate (characters / s) (Font 5 × 5, space 1, 1 line)	Up to 1,514
Standard characters	Alphanumeric (A–Z, a–z, 0–9), symbols (27), space: Total 90
Number of user pattern registration	Each dot matrix 128 patterns
Print functions	Calendar, Counter, Message storage (150 messages), Font mixture, Passwords security, Bar codes (code39, ITF, NW-7, EAN13/UPC-A, Code128/EAN128), Data Matrix 2-D code (Alphabet : 49 characters, Numerals: 98 characters), Encoder function with speed follow-up, Reciprocating printing, etc.
Input signal	Print target detection, Printing stop, Reciprocating printing, Rotary encoder pulse
Output signal	Print ready, Fault, Warning, Print in progress or Print end, Online
Data interface	RS-232C at baud rates selectable up to 38.4 kbps
General specifications	
Operating temperature range	32–95 °F / 0–35 °C (JP-K67, K69 Ink)
Humidity range	30-90 % R.H. (no condensation) Note: When humidity is more than 85 %RH, please purge inside of printhead by dry and clean air.
Atmosphere	No corrosive gas
Power supply (Automatic voltage selection)	AC 100–120 / 220–240V ± 10% / 50/60 Hz 150 VA (AC Inlet)
Approval	CE, UL, cUL, C-Tick, FCC, ICES
Cabinet	Stainless Steel / IP55
Printhead cable length	13.1 ft / 4 m
Overall size (width × depth × height)	15.7 × 12.4 × 20.3 inches / 400 × 315 × 515 mm
Approximate weight	55 lbs / 25 kg



\*1.Hitachi Industrial Equipment Systems Co.,Ltd. (Hitachi) shall not be liable for any manufacturing loss, or any product damage due to trouble or malfunction of the ink jet printer.  
\*2.Hitachi continually improves products. The right, therefore, is reserved to alter the design and/or specifications without giving prior notice.

# PXR-D for Larger Small-size Characters

The model is suitable for printing large characters on cartons, woods and buildings.

## Main Features

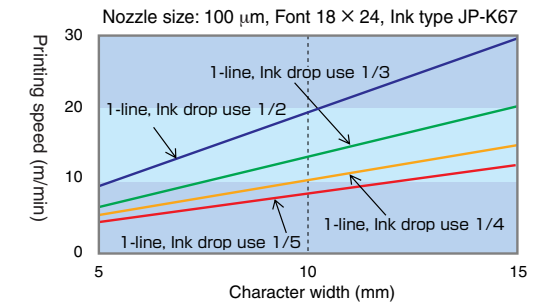
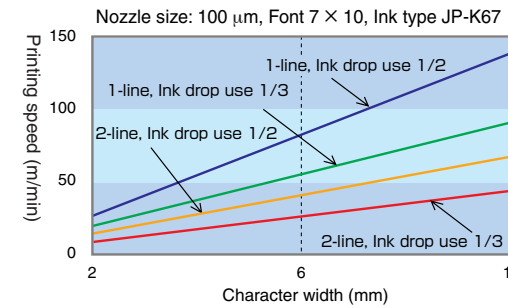
- The largest printing characters and print distance can be made among PXR series.
- Fast dry and high adhesion inks can be used with this model.



## Printing Samples (Full Scale)

Font	PXR-D410W	
	Standard	Bold
7X10	0123456789ABCDE	0123456789ABCDE
	0123456789ABCDE	0123456789ABCDE
12X16	01234ABCD	01234ABCD
	012ABC	012ABC
18X24	012ABCD	012ABCD
	012ABC	012ABC
24X32	012AB	012AB
	012AB	012AB

## Printing speed



## Standard Specifications

Printing specifications	
<b>Model</b>	PXR-D410W
<b>Nozzle size</b>	100 μm
<b>Max. print line number</b>	Up to 4 Lines
<b>Maximum number of print characters (each line)</b>	1 Line: Up to 240 characters    2 Line: Up to 120 characters 3 Line: Up to 80 characters    4 Line: Up to 60 characters
<b>Dot matrix (horizontal × vertical)</b>	1-4 Line: 5×5, 5×8 (or 5×7), 9×8 (or 9×7) 1-3 Line: 7×10 1-2 Line: 12×16, 1 Line: 18×24, 24×32
<b>Character height</b>	0.12 – 0.59 inches / 3 – 15 mm
<b>Display &amp; input device</b>	Display: TFT LCD (10.4 inch, color), backlight provided Input Device: Touch panel, input sound provided
<b>Screen language 2 language selectable:</b>	English, Chinese, Korean, Thai, Vietnamese, German, French, Dutch, Italian, Spanish, Portuguese, Swedish, Danish, Greek, Russian, Czech, Polish, Arabic, Serbian, Turkish, Hungarian, Bulgarian and Catalan available
<b>Maximum print rate (characters / s) (Font 5 × 5, space 1, 1 line)</b>	Up to 468
<b>Standard characters</b>	Alphanumeric (A–Z, a–z, 0–9), symbols (27), space: Total 90
<b>Number of user pattern registration</b>	Each dot matrix 128 patterns
<b>Print functions</b>	Calendar, Counter, Message storage (150 messages), Font mixture, Passwords security, Bar codes (code39, ITF, NW-7, EAN13/UPC-A, Code128/EAN128), Data Matrix 2-D code (Alphabet : 49 characters, Numerals: 98 characters), Encoder function with speed follow-up, Reciprocating printing, etc.
<b>Input signal</b>	Print target detection, Printing stop, Reciprocating printing, Rotary encoder pulse
<b>Output signal</b>	Print ready, Fault, Warning, Print in progress or Print end, Online
<b>Data interface</b>	RS-232C at baud rates selectable up to 38.4 kbps
General specifications	
<b>Operating temperature range</b>	32–95 °F / 0–35 °C (JP-K67, K69 Ink)
<b>Humidity range</b>	30-90 % R.H. (no condensation) Note: When humidity is more than 85 %RH, please purge inside of printhead by dry and clean air.
<b>Atmosphere</b>	No corrosive gas
<b>Power supply (Automatic voltage selection)</b>	AC 100–120 / 220–240V ±10 % 50/60 Hz 150 VA (AC Inlet)
<b>Approval</b>	CE, UL, cUL, C-Tick, FCC, ICES
<b>Cabinet</b>	Stainless Steel / IP55
<b>Printhead cable length</b>	13.1 ft / 4 m
<b>Overall size (width × depth × height)</b>	15.7 × 12.4 × 20.3 inches 400 × 315 × 515 mm
<b>Approximate weight</b>	55 lbs / 25 kg

Dimensions	
<b>Console</b>	<b>Printhead</b>

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# PXR-P for Pigmented Ink

The model is suitable for various dark color surfaces.

## Main Features

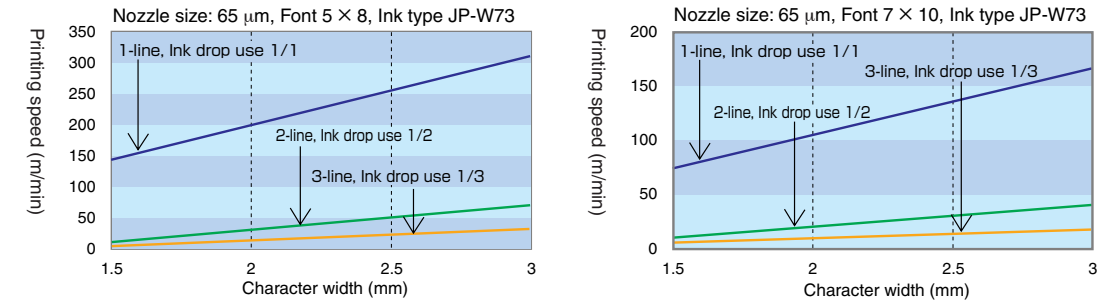
- Whiteness and adhesion strength are improved by newly developed white-pigmented ink.
- New ink circulation system is sure to stir the pigment particles.



## Printing Samples (Full Scale)

Font	PXR-P460W			
5X5	1 LINE 0123456789A	2 LINE 01234 KLMNO	3 LINE 0123456789 ABCDEFGHIJ KLMNOPQRST	4 LINE 0123456789 ABCDEFGHIJ KLMNOPQRST UVWXYZ
5X7	1 LINE 01234567	2 LINE 01234 KLMNO	3 LINE 0123456789 ABCDEFGHIJ KLMNOPQRST	4 LINE 0123456789 ABCDEFGHIJ KLMNOPQRST UVWXYZ
7X10	1 LINE 012345	2 LINE 01234 KLMNO	3 LINE 0123456789 ABCDEFGHIJ KLMNOPQRST	4 LINE 0123456789 ABCDEFGHIJ KLMNOPQRST UVWXYZ
12X16	1 LINE 0123456789ABCDEFGHIJ	2 LINE 01234 ABCDE		
18X24	1 LINE 0123456789ABCDEFGHIJ			
24X32	1 LINE 0123456789ABCDEFGHIJ			

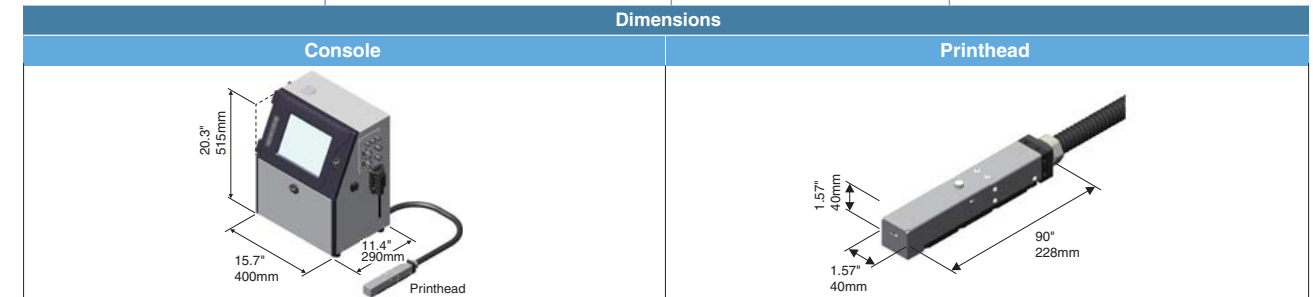
## Printing speed



## Standard Specifications : Nozzle size 65µm

Printing specifications	
Model	PXR-P460W
Nozzle size	65 µm
Max. number of lines	Up to 4 Lines
Maximum number of Characters per line	1 Line : Up to 240 characters 2 Line : Up to 120 characters 3 Line : Up to 80 characters 4 Line : Up to 60 characters
Dot matrix (Horizontal × vertical)	1-4 Line : 5 × 5, 5 × 8 (or 5 × 7), 9 × 8 (or 9 × 7) 1-3 Line : 7 × 10 1-2 Line : 12 × 16 1 Line : 18 × 24, 24 × 32
Character height	0.08 – 0.39 inches / 2–10 mm
Display & input device	Display : TFT LCD (10.4 inch, color), backlight provided Input Device : Touch panel, confirmation beep
Screen language 2 language selectable	English, Chinese, Korean, Thai, Vietnamese, German, French, Dutch, Italian, Spanish, Portuguese, Swedish, Danish, Greek, Russian, Czech, Polish, Arabic, Serbian, Turkish, Hungarian, Bulgarian and Catalan available
Maximum print rate (characters / s) (Font 5 × 5, space 1, 1 line)	Up to 2,083
Standard characters	Alphanumeric (A–Z, a–z, 0–9), symbols (27) space : Total 90
Number of logos / special character storage	Up to 128
Print functions	Calendar, Counter, Message storage (150 messages), Font mixture, Passwords security, Bar codes (Code 39, ITF, NW-7, EAN13 / UPC-A, Code 128 / EAN128), Data Matrix 2-D code (Alphabet : 49 characters, Numerals : 98 characters), Encoder Function with speed follow-up, Reciprocating printing, etc.
Input signals	Print target detection, Printing stop, Reciprocating printing, Rotary encoder pulse
Output signals	Print ready, Fault, Warning, Print in progress or Print completed, Online
Serial interface	RS-232C at baud rates selectable up to 38.4 kbps

General specifications			
Operating temperature range	32–104°F / 0–40 °C (JP-W73 Ink)		
Humidity range	30-90 % R.H.(no condensation) Note: When humidity is more than 85 %RH, please purge inside of printhead by dry and clean air.		
Atmosphere	No corrosive gas		
Power supply (Automatic voltage selection)	AC 100–120 / 200–240 V±10 % 50/60 Hz 150 VA(AC Inlet)	Printhead cable length	13.1 ft / 4m
Approval	CE, UK, cUL, C-Tick, FCC, ICES	Overall size (width × depth × height)	15.7 × 12.4 × 20.3 inches 400 × 315 × 515 mm
Air supply	0.2–0.4 MPa	Approximate weight	55 lbs / 25 kg
Cabinet	Stainless Steel / IP55		



\*1. The print samples have been produced under ideal conditions. Print quality depends printing speed.  
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PXR-D 40µm  
PXR-D 100µm  
PXR-P 65µm  
PXR-H 55µm  
Software Options  
Application Examples

# PXR-H for High-speed printing

The model meets high-speed printing needs on lines of electric wires, cans, etc.

## Main Features

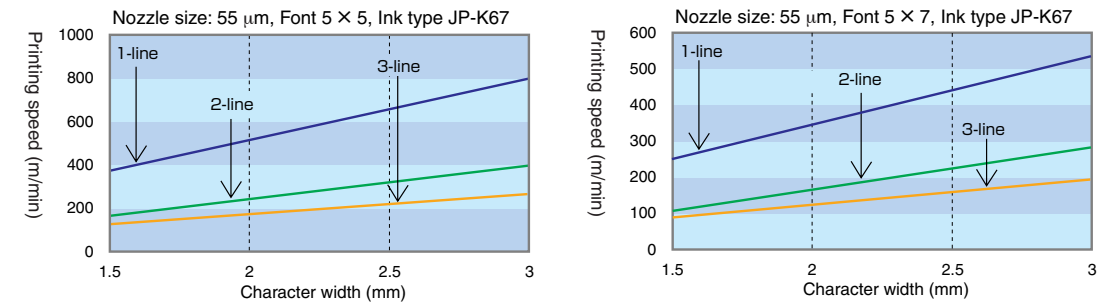
- Print quality has further improved by changes of nozzle control method.
- The world top class high-speed printing is possible



## Printing Samples (Full Scale)

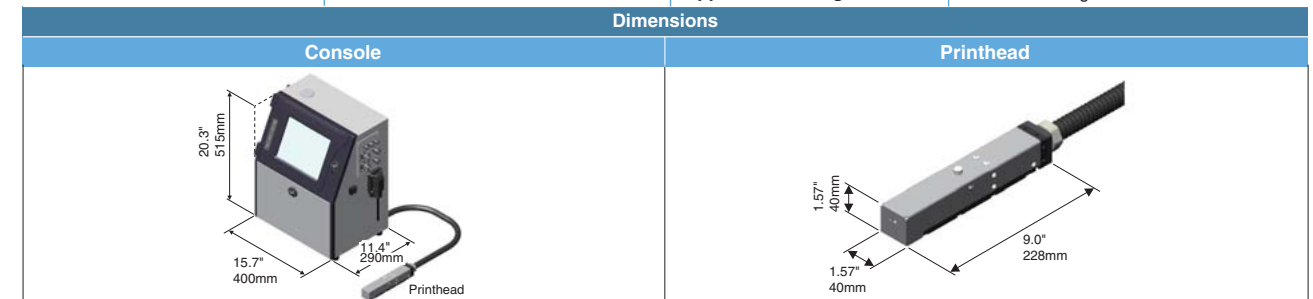
Font		PXR-H450W
5X5	1 LINE	0123456789ABCDEFGHIJKLMN
	2 LINE	0123456789ABCDEFGHIJKLMN ABCDEFGHIJKLMNOPQRSTUVWXYZ
	3 LINE	0123456789ABCDEFGHIJKLMN ABCDEFGHIJKLMNOPQRSTUVWXYZ 0123456789ABCDEFGHIJKLMN
5X7	1 LINE	0123456789ABCDEFGHIJKLMN
	2 LINE	0123456789ABCDEFGHIJKLMN ABCDEFGHIJKLMNOPQRSTUVWXYZ
	3 LINE	0123456789ABCDEFGHIJKLMN ABCDEFGHIJKLMNOPQRSTUVWXYZ 0123456789ABCDEFGHIJKLMN
	4 LINE	0123456789ABCDEFGHIJKLMN ABCDEFGHIJKLMNOPQRSTUVWXYZ 0123456789ABCDEFGHIJKLMN ABCDEFGHIJKLMNOPQRSTUVWXYZ
12X16	1 LINE	0123456789

## Printing speed



## Standard Specifications

Printing specifications	
<b>Model</b>	PXR-H450W
<b>Nozzle size</b>	55 µm
<b>Max. print line number</b>	Up to 4 Lines
<b>Maximum number of print characters (each line)</b>	1 Line: Up to 240 characters    2 Line: Up to 120 characters 3 Line: Up to 80 characters    4 Line: Up to 60 characters
<b>Dot matrix (horizontal × vertical)</b>	1-4 Line: 5×8 (or 5×7), 9×8 (or 9×7) 1-3 Line: 5×5 1-2 Line: 7×10 1 Line: 12×16
<b>Character height</b>	0.08 – 0.26 inches / 2 – 6.5 mm
<b>Display &amp; input device</b>	Display: TFT LCD (10.4 inch, color), backlight provided Input Device: Touch panel, input sound provided
<b>Screen language</b>	English, Chinese, Korean, Thai, Vietnamese, German, French, Dutch, Italian, Spanish, Portuguese, Swedish, Danish, Greek, Russian, Czech, Polish, Arabic, Serbian, Turkish, Hungarian, Bulgarian and Catalan available
<b>2 language selectable:</b>	
<b>Maximum print rate (characters / s) (Font 5 × 5, space 1, 1 line)</b>	Up to 3,173
<b>Standard characters</b>	Alphanumeric (A–Z, a–z, 0–9), symbols (27), space: Total 90
<b>Number of user pattern registration</b>	Each dot matrix 128 patterns
<b>Print functions</b>	Calendar, Counter, Message storage (150 messages), Font mixture, Passwords security, Bar codes (code39, ITF, NW-7, EAN13/UPC-A, Code128/EAN128), Encoder function with speed follow-up, Reciprocating printing, etc.
<b>Input signal</b>	Print target detection, Printing stop, Reciprocating printing, Rotary encoder pulse
<b>Output signal</b>	Print ready, Fault, Warning, Print in progress or Print end, Online
<b>Data interface</b>	RS-232C at baud rates selectable up to 38.4 kbps
General specifications	
<b>Operating temperature range</b>	32–104 °F / 0–40 °C (JP-K67, K69 Ink)
<b>Humidity range</b>	30-90 % R.H. (no condensation) Note: When humidity is more than 85 %RH, please purge inside of printhead by dry and clean air.
<b>Atmosphere</b>	No corrosive gas
<b>Power supply (Automatic voltage selection)</b>	AC 100–120 / 220–240V ± 10 % 50/60 Hz 150 VA (AC Inlet)
<b>Approval</b>	CE, UL, cUL, C-Tick, FCC, ICES
<b>Cabinet</b>	Stainless Steel / IP55
<b>Printhead cable length</b>	13.1 ft / 4 m
<b>Overall size (width × depth × height)</b>	15.7 × 12.4 × 20.3 inches 400 × 315 × 515 mm
<b>Approximate weight</b>	55 lbs / 25 kg



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# PXR Series Software Options

## Addition of print columns (Total 1,000 characters) [SOP-02]

The number of printable characters can be increased from standard 240 characters (24 items) to 1,000 characters (100 items)

Standard	240 (characters)	24 (items)
Addition	760 (characters)	76 (items)
Total	1,000 (characters)	100 (items)

## Special Communication Function A [SOP-04]

Function	Content
<b>Output of print contents</b>	Print content will be transmitted by serial communication when the printing is completed or on request.
<b>Output of print completion code</b>	Print completion code will be transmitted when the printing is completed.
<b>Status output</b>	The printer status will be output when any change occurs in status, or an inquiry of status is given from an external device.
<b>Transmission of remote operation</b>	Remote operations of start, stop, deflection voltage (ON/OFF) and fault clear are possible.
<b>Transmission of clock initialization</b>	Current time, calendar time control, calendar time and clock system (24/12-hour system) can be set.
<b>Transmission of print data registration</b>	Print data can be registered in the specified message number, and the registered print data can be recalled.

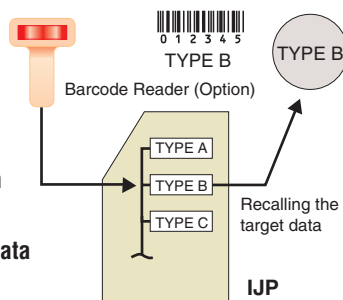
## Barcode Reader Connection [SOP-08]

### Function for setting print contents

The contents of barcode read by the barcode reader are transmitted to IJ printer as a character string and it is set in the IJP as a print item.

### Function for recalling print data

The contents of barcode read by the barcode reader are transmitted to IJP as a recall code and the print data that has been assigned to the code is recalled.

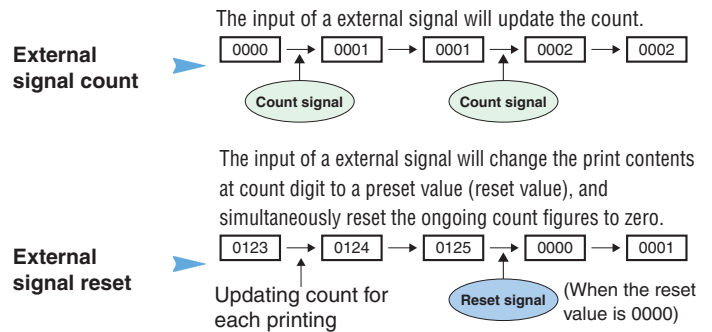


## Addition of registered data elements (Total 300 data) [SOP-03]

The number of print data can be increased from standard 150 data to 300 data.

Standard	150 data
Addition	150 data
Total	300 data

## External Signal Function A [SOP-05]



### Switching print contents using external signal

### Calling up print data using external signal

### Output during calendar updating

### Output notifying completion of signal input

This function reflects print contents that have previously been transmitted and then temporarily held in printing when external signal is input.

When an external signal is input, this function allows operator to recall previously registered print contents and print format, and set them as current print data.

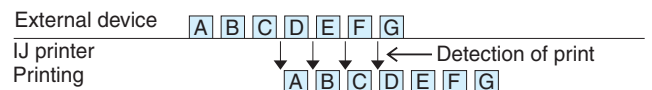
When IJ printer is in printable status and print contents are updated by internal calendar, a signal will be output to the optional terminal board.

When receiving external signal for count, resetting, switching of print contents or data calling, a signal will be output to the optional terminal board.

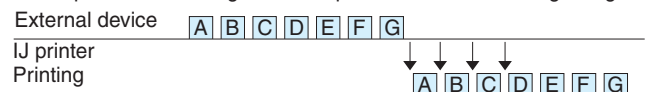
## Communication Buffer [SOP-16-03]

The print contents that are temporarily stored in the buffer are retrieved and printed one by one after the print ready status is set. The buffer capacity is 100 print items.

[Example of transmitting print contents constantly during printing]

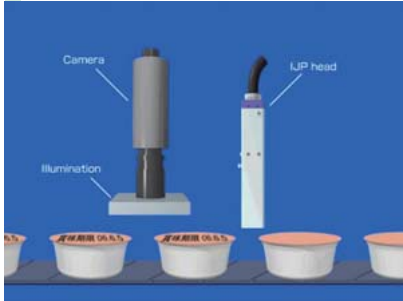


[Example of transmitting collective print contents at the beginning]

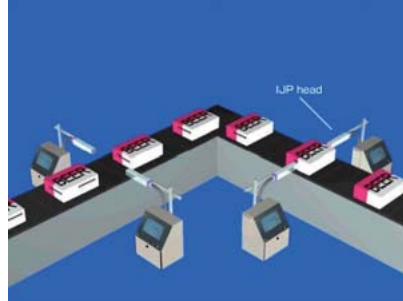


## IJ Printer is Applied for Large Varieties of Printing.

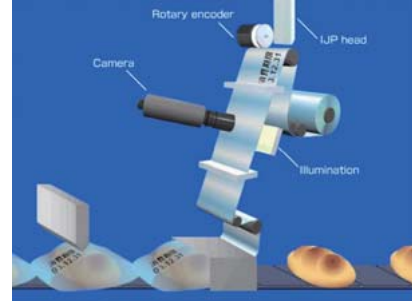
Cap label print inspection



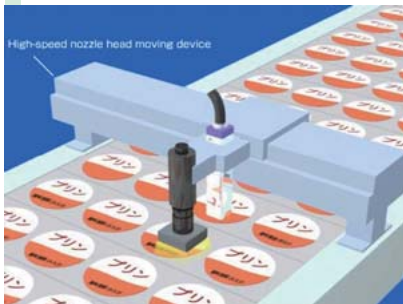
Paper-pack print inspection



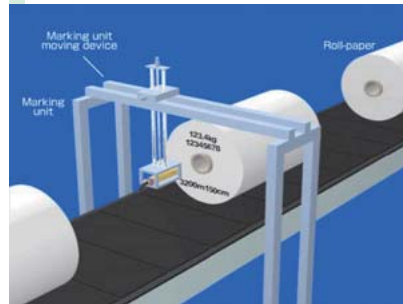
Film package print inspection



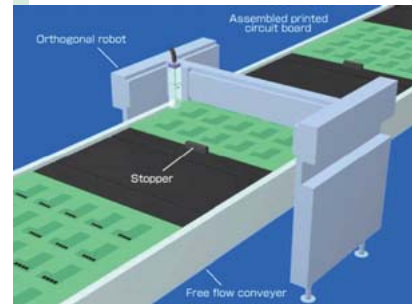
Traversing head automatic cup marking



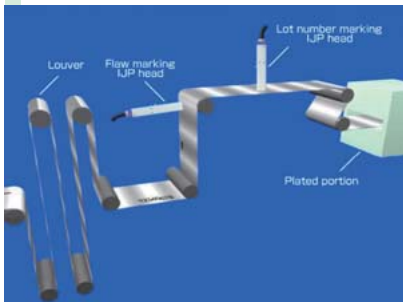
Roll-paper automatic marking



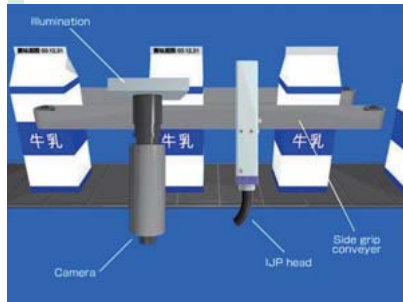
Assembled parts automatic marking



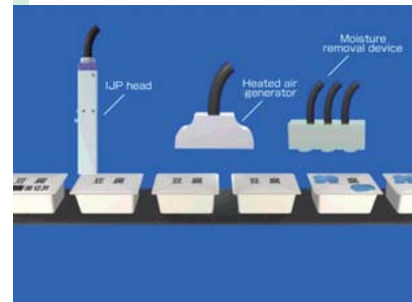
Steel-plate pitch print marking



Carton printing



Moisture/condensation removable printing



PXR-D 40 μm

PXR-D 100 μm

PXR-P 65 μm

PXR-H 55 μm

Software Options  
Application Examples







A series of horizontal blue lines spanning the width of the page, providing a template for writing or drawing.

# Network

Hitachi Industrial Equipment Systems Co., Ltd. meets customers' needs through the total network which can supply speedy design, production, sales, service and engineering for industrial equipment and systems.

## Global Sales Network



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Information in this brochure is subject to change without notice.

## Hitachi Industrial Equipment Systems Co., Ltd.

For further information, please contact your nearest sales representative.



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Registration date: April 1, 2005

The Energy Saving Systems Division (Taga Division) of Hitachi Industrial Equipment Systems Co., Ltd. obtained ISO 14001 certification, an international standard for environmental management systems.

The Energy Saving Systems Division (Taga Division) of Hitachi Industrial Equipment Systems Co., Ltd. obtained international standard ISO 9001 certification for the quality assurance of the hoist motor block contained in this brochure.