Hitachi IJ Printer
PXR Series

Micro Characters

Larger Small-size Characters

Pigmented ink

High-Speed Printing

Hitachi IJ Printers for industrial use can be selected in accordance with varieties of printing needs.

PXR SERIES

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)
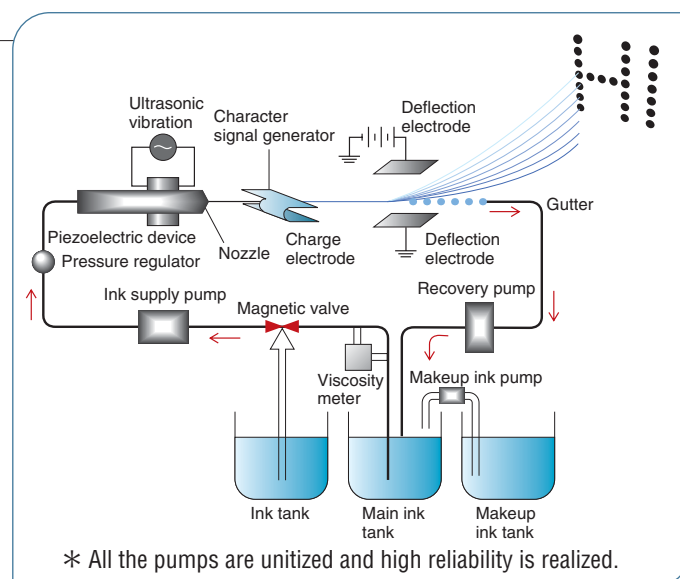
Viewing angle is drastically increased

Large Panel

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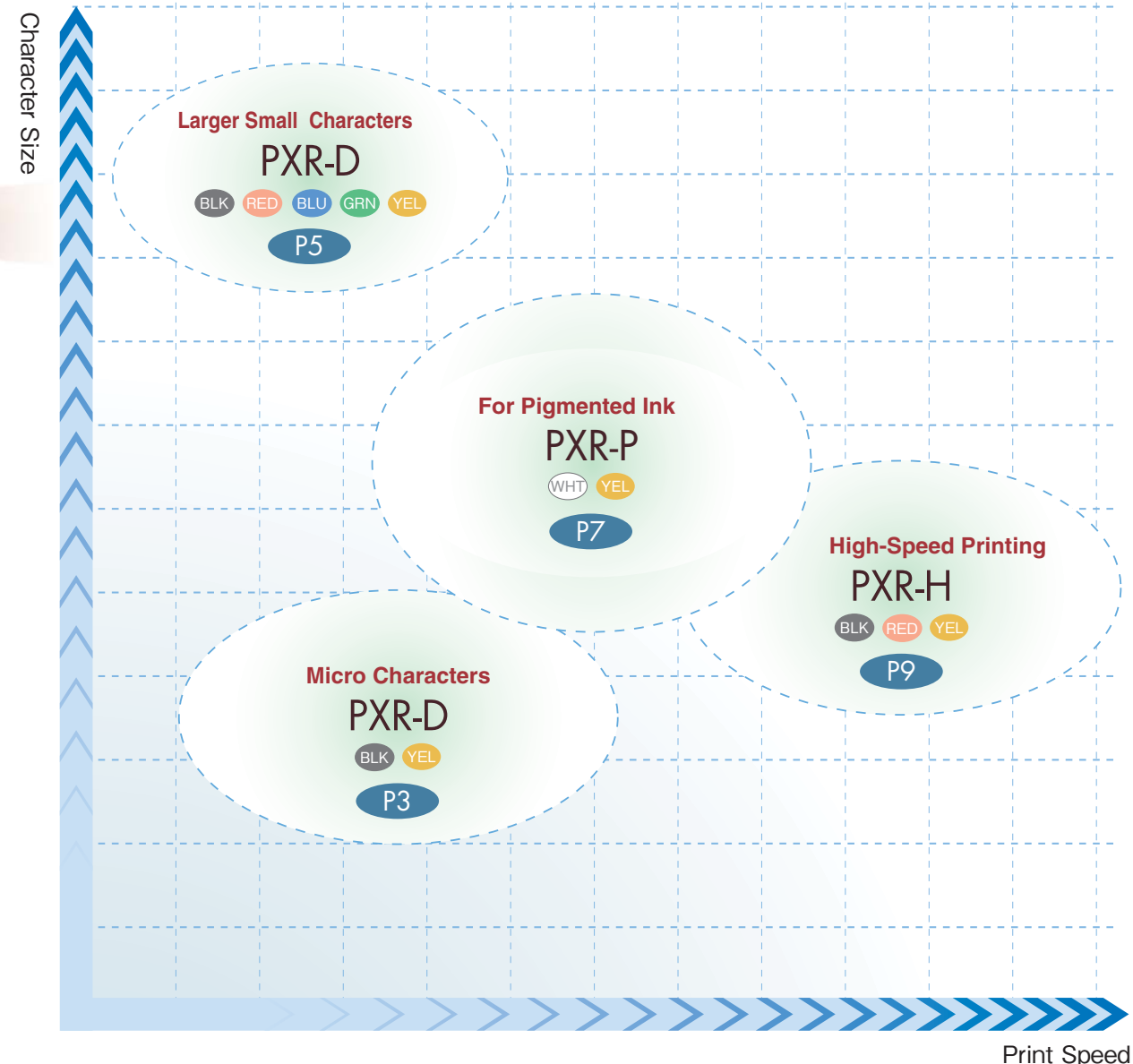● The menu select system offers users exceptional ease and simplicity of use.

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.

Ultrasonic vibration
Character signal generator
Deflection electrode
Piezoelectric device
Pressure regulator
Nozzle
Charge electrode
Deflection electrode
Gutter
Ink supply pump
Magnetic valve
Recovery pump
Viscosity meter
Makeup ink pump
Ink tank
Main ink tank
Makeup ink tank

＊ All the pumps are unitized and high reliability is realized.

IJ Printer Selection Guide

Character Size

Larger Small Characters
PXR-D
BLK RED BLU GRN YEL
P5

For Pigmented Ink
PXR-P
WHT YEL
P7

High-Speed Printing
PXR-H
BLK RED YEL
P9

Micro Characters
PXR-D
BLK YEL
P3

Print Speed

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 | Ink Variation

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.
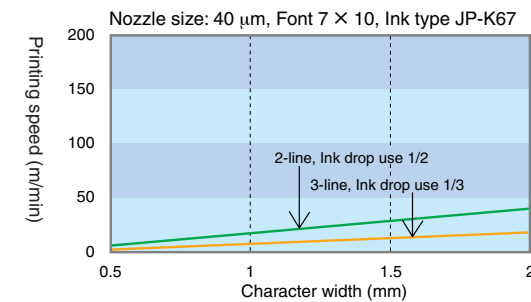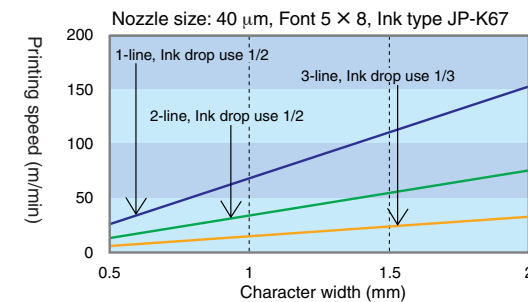
Main Features

- 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-D440W				
				PXR-D240W				
5×5	1 LINE	0123456789ABCDEFGHIJKL	2 LINE	0123456789ABCDEFGHIJ KLMNOPQRSTUVWXYZABCD	3 LINE	0123456789ABCDEFGH IJKLMNOPQRSTUVWXYZ 0123456789ABCDEFGH	4 LINE	0123456789ABCDEFGH IJKLMNOPQRSTUVWXYZ 0123456789ABCDEFGH IJKLMNOPQRSTUVWXYZ
5×7	1 LINE	0123456789ABCDEFGH	2 LINE	0123456789ABCDEFGH IJKLMNOPQRSTUVWXYZ	3 LINE	0123456789ABCEEFGH IJKLMNOPQRSTUVWXYZ 0123456789ABCDEFGH	4 LINE	0123456789ABCDEFGH IJKLMNOPQRSTUVWXYZ 0123456789ABCDEFGH IJKLMNOPQRSTUVWXYZ
7×10	1 LINE	0123456789ABCD	2 LINE	0123456789ABCD EFGHIJKLMNOPQR	3 LINE	012345678901234567890123456789 ABCDEFGHIJKLMNOPQRSTUVWXYZABCD ABCDEFGHIJKLMNOPQRSTUVWXYZABCD		
12×16	1 LINE	0123456789ABCDEFG					2 LINE	0123456789 ABCDEFGHIJ
18×24	1 LINE	0123456789ABCDE						
24×32	1 LINE	0123456789A						

Printing speed

Nozzle size: 40 μm, Font 5 × 8, Ink type JP-K67

1-line, Ink drop use 1/2
2-line, Ink drop use 1/2
3-line, Ink drop use 1/3

Printing speed (m/min): 0, 50, 100, 150, 200
Character width (mm): 0.5, 1, 1.5, 2

Nozzle size: 40 μm, Font 7 × 10, Ink type JP-K67

2-line, Ink drop use 1/2
3-line, Ink drop use 1/3

Printing speed (m/min): 0, 50, 100, 150, 200
Character width (mm): 0.5, 1, 1.5, 2

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)	**Printhead cable length**	4 m / 13.1 ft
Approval	CE, UL, cUL, C-Tick, FCC, ICES	**Overall size (width × depth × height)**	400×315×515 mm 15.7×12.4×20.3 inches
Cabinet	Stainless Steel / IP55	**Approximate weight**	25 kg / 55 lbs

Dimensions

Console	Printhead : PXR - D*40W
515mm 20.3" 400mm 15.7" 290mm 11.4" Printhead	40mm 1.57" 213mm 8.4" 40mm 1.57"

PXR-D for Larger Small-size Characters

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

Main Features

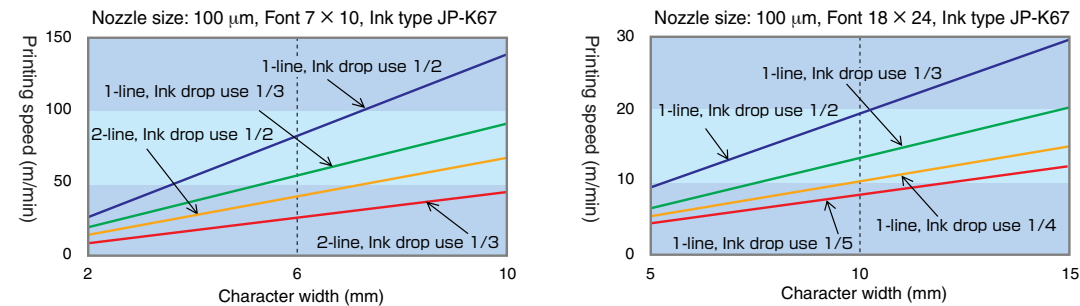- The largest printing characters and print distance can be made among PXR series.
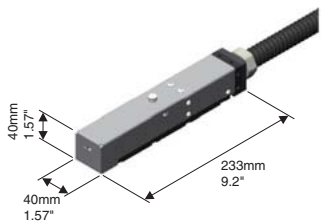- Fast dry and high adhesion inks can be used with this model.

Printing speed

Nozzle size: 100 μm, Font 7 × 10, Ink type JP-K67

Printing speed (m/min) vs Character width (mm)
- 1-line, Ink drop use 1/3
- 1-line, Ink drop use 1/2
- 2-line, Ink drop use 1/2
- 2-line, Ink drop use 1/3

Nozzle size: 100 μm, Font 18 × 24, Ink type JP-K67

Printing speed (m/min) vs Character width (mm)
- 1-line, Ink drop use 1/3
- 1-line, Ink drop use 1/2
- 1-line, Ink drop use 1/5
- 1-line, Ink drop use 1/4

Printing Samples (Full Scale)

Font	PXR-D410W	
	Standard	Bold
7×10	0123456789ABCDE / 0123456789ABCDE	0123456789ABCDE / 0123456789ABCDE
12×16	01234ABCD / 012ABC	01234ABCD / 012ABC
18×24	012ABCD / 012ABC	012ABCD / 012ABC
24×32	012AB / 012AB	012AB / 012AB

Standard Specifications

Printing specifications	
Model	PXR-D410W
Nozzle size	100 μm
Max. print line number	Up to 4 Lines
Maximum number of print characters (each 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	0.12 – 0.59 inches / 3 – 15 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 468
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)	Printhead cable length	4 m / 13.1 ft
Approval	CE, UL, cUL, C-Tick, FCC, ICES	Overall size (width × depth × height)	400×315×515 mm 15.7×12.4×20.3 inches
Cabinet	Stainless Steel / IP55	Approximate weight	25 kg / 55 lbs

Dimensions	
Console	Printhead
515mm 20.3" / 400mm 15.7" / 290mm 11.4" Printhead	40mm 1.57" / 233mm 9.2" / 40mm 1.57"

PXR-P for Pigmented Ink

PXR SERIES

The model is suitable for various dark color surfaces.
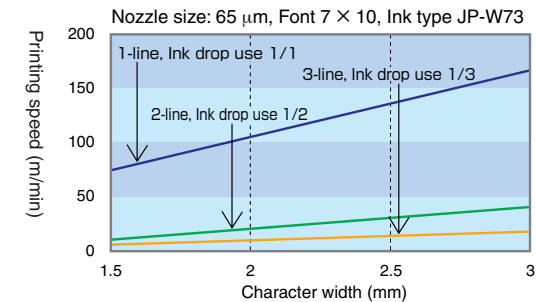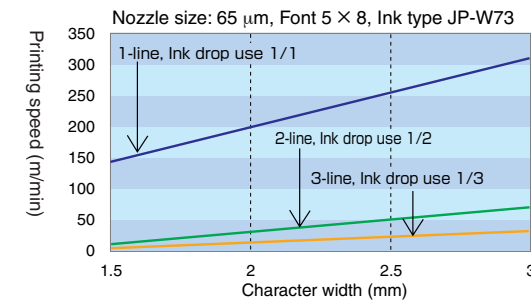
Main Features

- 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
5×5	1 LINE · 2 LINE · 3 LINE · 4 LINE
5×7	1 LINE · 2 LINE · 3 LINE · 4 LINE
7×10	1 LINE · 2 LINE · 3 LINE
12×16	1 LINE · 2 LINE
18×24	1 LINE
24×32	1 LINE

Printing speed

Nozzle size: 65 μm, Font 5 × 8, Ink type JP-W73

Printing speed (m/min): 350 300 250 200 150 100 50 0

1-line, Ink drop use 1/1
2-line, Ink drop use 1/2
3-line, Ink drop use 1/3

Character width (mm): 1.5 2 2.5 3

Nozzle size: 65 μm, Font 7 × 10, Ink type JP-W73

Printing speed (m/min): 200 150 100 50 0

1-line, Ink drop use 1/1
3-line, Ink drop use 1/3
2-line, Ink drop use 1/2

Character width (mm): 1.5 2 2.5 3

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	4m / 13.1 ft
Approval	CE, UK, cUL, C-Tick, FCC, ICES	Overall size (width × depth × height)	400 × 315 × 515 mm 15.7×12.4×20.3 inches
Air supply	0.2–0.4 MPa		
Cabinet	Stainless Steel / IP55	Approximate weight	25 kg / 55 lbs

Dimensions	
Console	Printhead

Console: 515mm 20.3", 400mm 15.7", 290mm 11.4", Printhead

Printhead: 40mm 1.57", 40mm 1.57", 228mm 90"

Side tabs: 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.
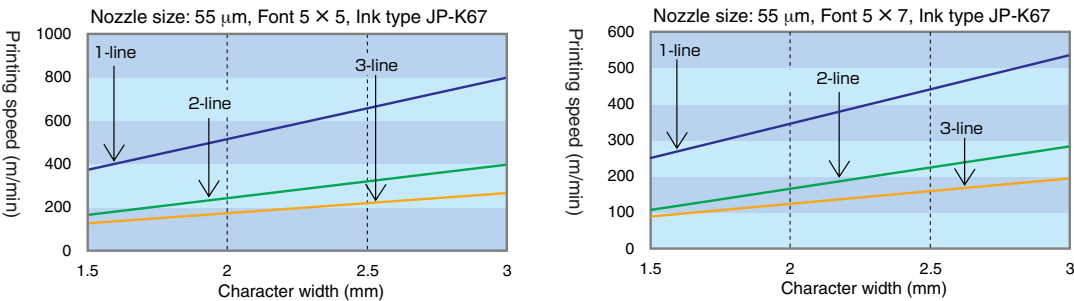
Main Features

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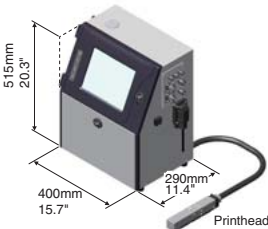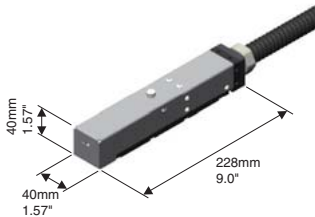- The world top class high-speed printing is possible

Printing Samples (Full Scale)

Font		PXR-H450W
5×5	1 LINE	0123456789ABCDEFGHIJKLMN
	2 LINE	0123456789ABCDEFGHIJKLMN ABCDEFGHIJKLMNOPQRSTUVWX
	3 LINE	0123456789ABCDEFGHIJKLMN ABCDEFGHIJKLMNOPQRSTUVWX 0123456789ABCDEFGHIJKLMN
5×7	1 LINE	0123456789ABCDEFGHIJKLMN
	2 LINE	0123456789ABCDEFGHIJKLMN ABCDEFGHIJKLMNOPQRSTUVWX
	3 LINE	0123456789ABCDEFGHIJKLMN ABCDEFGHIJKLMNOPQRSTUVWX 0123456789ABCDEFGHIJKLMN
	4 LINE	0123456789ABCDEFGHIJKLMN ABCDEFGHIJKLMNOPQRSTUVWX 0123456789ABCDEFGHIJKLMN ABCDEFGHIJKLMNOPQRSTUVWX
12×16	1 LINE	0123456789

Printing speed

Nozzle size: 55 μm, Font 5 × 5, Ink type JP-K67

Nozzle size: 55 μm, Font 5 × 7, Ink type JP-K67

Standard Specifications

Printing specifications	
Model	PXR-H450W
Nozzle size	55 μm
Max. print line number	Up to 4 Lines
Maximum number of print characters (each 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: 5×8 (or 5×7), 9×8 (or 9×7) 1–3 Line:5×5 1–2 Line:7×10 1 Line: 12×16
Character height	0.08 – 0.26 inches / 2 – 6.5 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 3,173
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), 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	32–104 °F / 0–40 °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)	Printhead cable length	4 m / 13.1 ft
Approval	CE, UL, cUL, C-Tick, FCC, ICES	Overall size (width × depth × height)	400×315×515 mm 15.7×12.4×20.3 inches
Cabinet	Stainless Steel / IP55	Approximate weight	25 kg / 55 lbs

Dimensions	
Console	Printhead

515mm 20.3"
400mm 15.7"
290mm 11.4"
Printhead

40mm 1.57"
40mm 1.57"
228mm 9.0"

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)

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

Special Communication Function A [SOP-04]

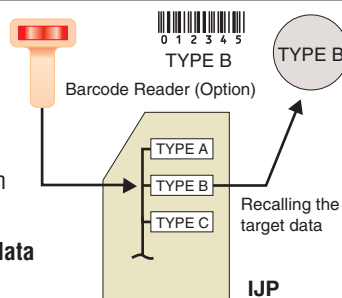| Function	Content
Output of print contents	Print content will be transmitted by serial communication when the printing is completed or on request.
Output of print completion code	Print completion code will be transmitted when the printing is completed.
Status output	The printer status will be output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

External Signal Function A [SOP-05]

External signal count — The input of a external signal will update the count.

0000 → 0001 → 0001 → 0002 → 0002
Count signal   Count signal

External signal reset — The input of a external signal will change the print contents at count digit to a preset value (reset value), and simultaneously reset the ongoing count figures to zero.

0123 → 0124 → 0125 → 0000 → 0001
Updating count for each printing   Reset signal   (When the reset value is 0000)

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

Calling up print data using external signal
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.

Output during calendar updating
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.

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

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.
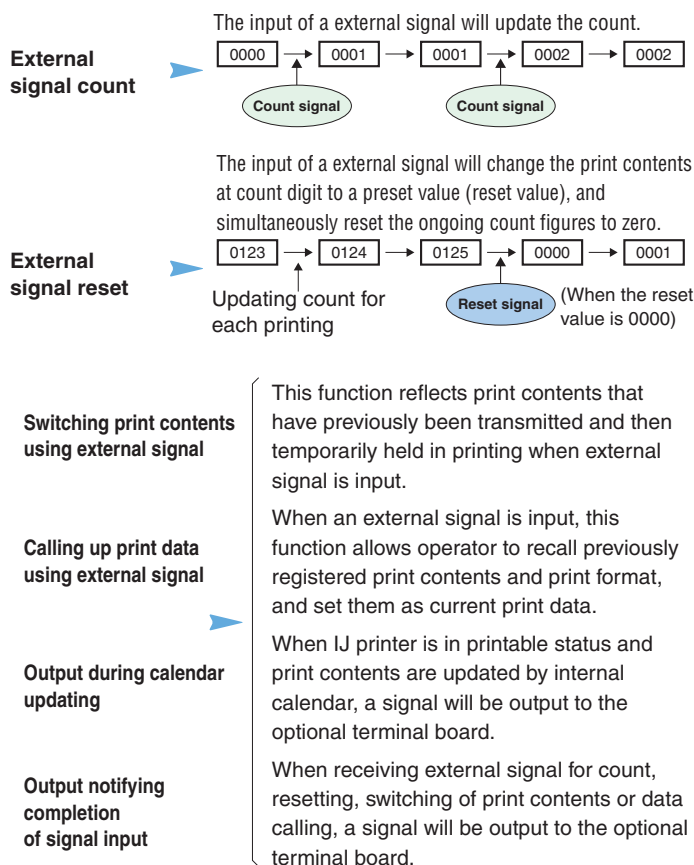
TYPE B
012345
TYPE B
Barcode Reader (Option)
TYPE A
TYPE B
TYPE C
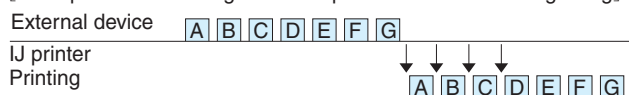Recalling the target data
IJP

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]

External device   A B C D E F G
IJ printer
Printing   A B C D E F G ← Detection of print
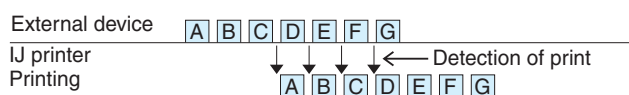
[Example of transmitting collective print contents at the beginning]

External device   A B C D E F G
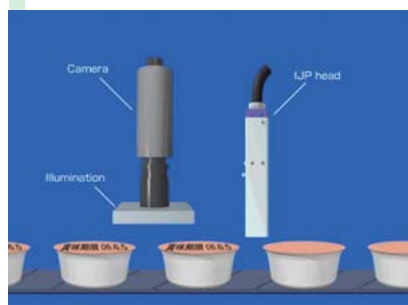IJ printer
Printing   A B C D E F G

Samples of Application
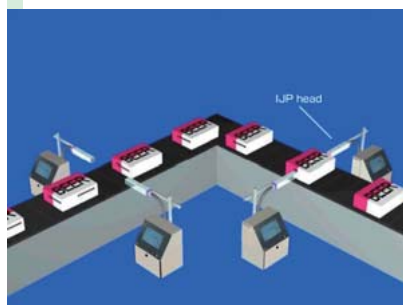
PXR SERIES

IJ Printer is Applied for Large Varieties of Printing.

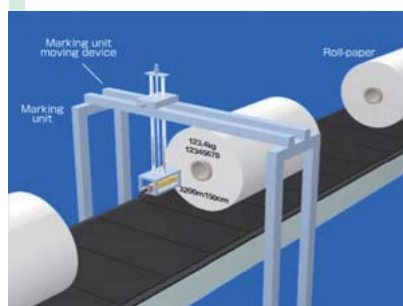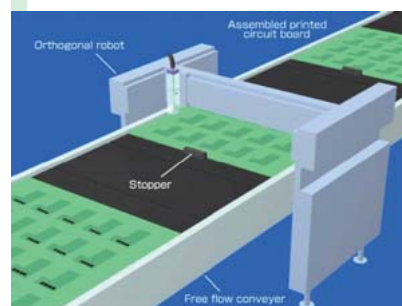| Cap label print inspection	Paper-pack print inspection	Film package print inspection
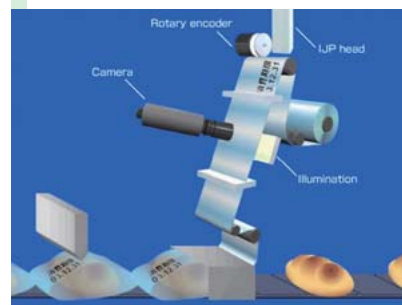
Traversing head automatic cup marking	Roll-paper automatic marking	Assembled parts automatic marking

Steel-plate pitch print marking	Carton printing	Moisture/condensation removable printing
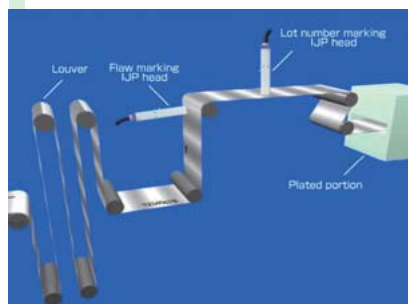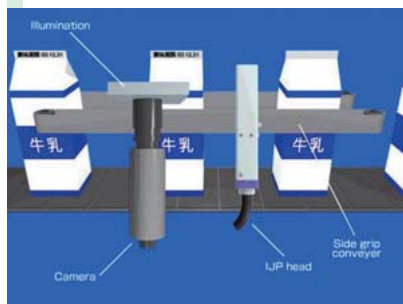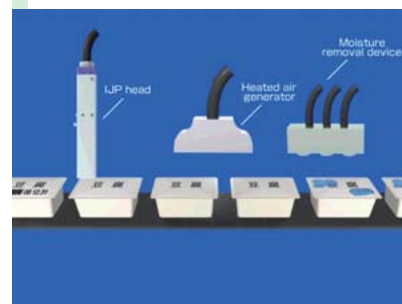
MEMO

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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.

Registration number: JACO-EC99J2009
Registration date: July 22, 1996

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.

Registration number: JQA-QMA12087
Registration date: April 1, 2005

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.