HITACHI
Inspire the Next

Coding & Marking Solutions

Inkjet Printer

UX Series

For over 40 years, Hitachi has developed and produced high-performance inkjet printers based on the well-proven Continuous Inkjet (CIJ) principle for industrial marking.

Hitachi Industrial IJ printers are high-speed printers adopting a non-contact printing method, ideal for a wide range of applications. They are capable of applying best before dates, logos, barcodes, lot numbers and data matrix codes, which makes the new UX-Series the perfect solution for both complex and standard applications.

High Reliability

Hitachi Products are renowned for being extremely reliable in harsh environments. All functionally critical parts are manufactured in-house. The use of Hitachi's own components reinforces the high quality levels, reliability and excellent value for money.

Cost-Effective

The new economical ink recovery technique achieves industry-leading levels of make-up consumption and the very low maintenance costs minimise the total cost of ownership.

Global Sales & Service Network

Are you looking for a proven global company that can work with you at a local level? Hitachi offers a global sales and service network when marking, coding and traceability challenges demand a coordinated answer. For each of your locations, and across your entire organization we will champion your goals by providing international consistency, global perspective, broad expertise and coordinated service with dedicated contacts. Our global team applies its worldwide technical expertise to your unique challenges in a consistent way. Tangible deliverables and proven solutions are results of our business analysis and project implementation. In addition, cross-border project management and coordination between suppliers, OEM's and end-users are part of our deliveries. You gain more visibility and save time and money.

About the UX Series

EFFICIENT INK RECOVERY

INTUITIVE PRINT CONTROL

INTELLIGENT FLUID CARTRIDGES

DURABLE PRINTHEAD

RELIABLE CIRCULATION SYSTEM

SIMPLE FLUID MANAGEMENT

The Hitachi UX Series is the clear leader for your non-contact printing needs

The UX Series improves the existing, reliable Hitachi continuous inkjet products and is versatile enough to provide industry-leading marking on food, beverage and dairy products, health and beauty products and a variety of containers from lip balm tubes to bag printing and oversized PVC piping.

Simplicity

Mess-free, Mistake-proof Fluid Refills

Intelligent fluid cartridges reduce the possibility of hazardous fluid spills during refill. Shaped differently, the ink and make-up cartridges are easily identifiable as well as sized to fit in each respective receptacle.

RFID Recognition**

Error reduction is key to increased uptime and that's why the UX Series now features RFID* recognition for ink and make-up replacement. A quick scan of each bottle allows the system to identify the fluid in question and instruct the operator based on compatibility.

* Radio-frequency identification
** Not available in some countries

Simple Economical Disposal

Ink and makeup cartridges are good to the last drop, and drain fully into their respective reservoirs. Complete fluid evacuation allows ink and makeup containers to be disposed of easily instead of incurring costly hazardous disposal expenses.

Stay informed

On-screen icons provide simple, visual feedback to an operator. Ink and makeup solution level gauges show the current fluid level and indicate when it's time to replace ink. This allows for more efficient ink usage, reduces waste and further contributes to cost reduction.
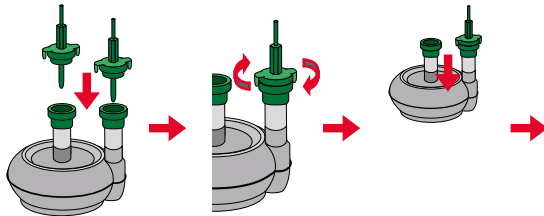
Tool-less Filter Replacement

Ink filters can be replaced without the use of tools or a technician, resulting in virtually zero downtime for easy maintenance. No more mandatory, timebased failure due to machine operation.

(Original Hitachi patent: EP 226 1037 A1 / EP 230 5470 A1)

IC Card with RFID Function

With the new Hitachi IC Card* any login information and print data can be managed fast, easy, and safely.

User Login
By scanning the IC Card, only the registered user can login quickly without entering a password. Each user operation can be limited to prevent human error.

Print data selection
By scanning the IC Card the print data can be quickly called up. Prevent calling up incorrect data which may happen with manual operation.

* Option

Intuitive Machine Interface

Intuitive User Interface

A 10.4-inch TFT LCD touch-panel screen provides a wide, easy-to-see viewing angle and intuitive operation. In addition, when changing print messages, a preview function allows the operator to verify on-screen what message will be changed to help avoid erroneous printing.

On-Screen Guidance

The UX Series features an integrated, easy to access troubleshooting guide, helping operators easily find answers to common issues and reducing downtime due to simple problems.
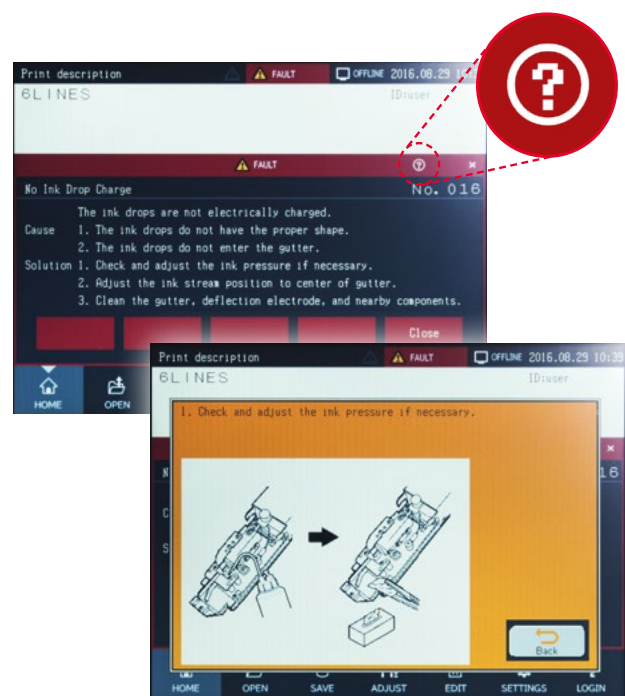
Keep and Collect your Message

Messages can be easily backed up onto a USB flash drive for convenient transferring to multiple printers.

Convenient Remote Management

Ethernet is a standard feature on UX machines.* In addition, open network is supported, allowing easier system integration. Collective management via a host system enables two or more devices to be easily networked.

*UX-B excluded

Network

UX *Series*   UX *Series*   UX *Series*
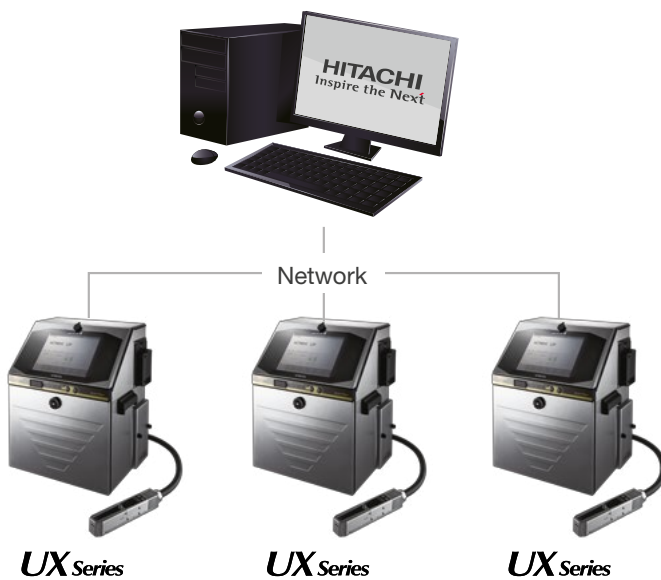
Print Error Recognition

The Hitachi Vision System has been optimised to work with inkjet typical dot matrix characters. It verifies the content of each printed message instantaneously while allowing for typical CIJ character variations, assuring an optimal level of print quality.

Dictionary

Matching

Size variations
Density variations
Readable distortions

Misreadable distortions
Typo
no print

✔ Examples of pass patterns   ✘ Examples of error patterns
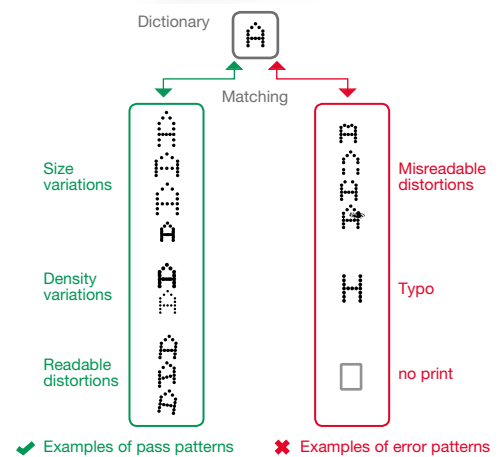
Versatile Durable Print Head

High Quality Components

HQ The UX Series printhead is built to last, keeping your marking and coding up and running. Open up the printhead and you'll see high-quality Hitachi parts that stand up to the harsh environments your printer runs in reducing your downtime and increasing your printer's efficiency.

Durable Ni-Cr Printhead

Ni-Cr The UX Series printhead is ready to work wherever you need it most. The UX Series features a new nickel-chrome* finish, giving it exceptional corrosion resistance and increasing the printhead's lifespan in demanding environments including wash-downs and exposure to caustic chemicals.
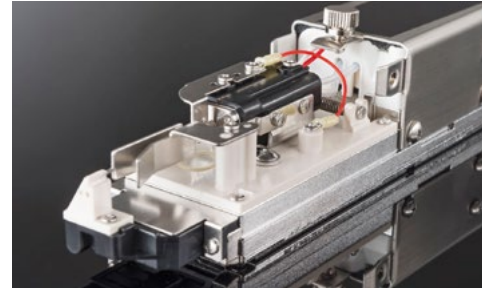
* partly Ni-Cr

Versatile Tapered Print Head

Getting the printhead as close as possible to the product it is marking is the name of the game in non-contact printing and the UX series' tapered printhead design allows it to get millimeters away from products - helping it achieve a higher quality print than ever before.

Flexible Six-line Print

A single UX printhead can now print up to six lines of text by employing an innovative print control system. Also available in the UX Series is Hitachi's industry-first interlaced drop control system, resulting in the highest quality code available regardless of print height.
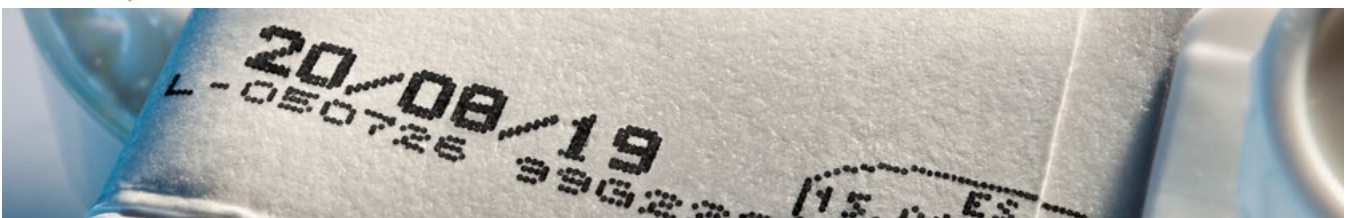
Reliability

Ink Circulation Unit

At the heart of the UX Series inkjet printer is a diaphragm based circulation system. Unique to Hitachi, the UX's diaphragm system dramatically improves reliability, leading to a reduction in total cost of ownership.

A dedicated viscometer gives a true measure of the ink's viscosity further increasing reliability and uptime.

Reduced Make-up Consumption and Running Cost

Motor Speed Control Function suppresses make-up evaporation and offers industry-leading level of make-up consumption.
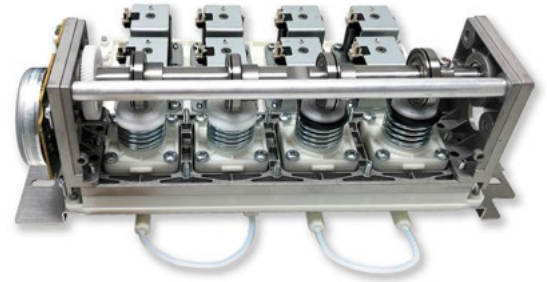
The premium model UX-E achieves a consumption of only 2.5 ml/h thanks to Hitachi's latest patented Fluid Consumption Reduction System.

2.5 ml/h*

*Hitachi Ink 1069k at 20 °C

Worry-free Integration — Designed for harsh Environments

The UX model printer is IP-65, so it can be integrated into a variety of production environments without modifying current production processes such as wash-down procedures. The UX can operate in temperatures as low as 0° C and up to temperatures as high as 45° C which means that the UX model is able to tolerate marking in a wide variety of environments - making it an ideal choice for most facilities.

High temperature up to 45 °C

Wash-down

Low temperature down to 0 °C

Dusty environment
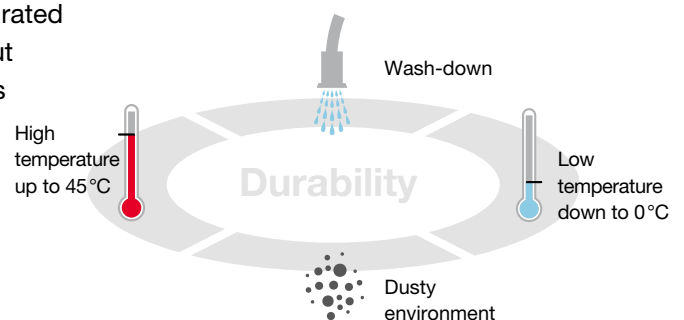
Durability

Software Defined Controller

In effect SDC adds a new, intuitive way for our customers to communicate with our printer. SDC has the ability to build a bridge directly to your corporate ERP or other business management system. In traditional production environments, connecting the IT business systems with the factory floor poses many challenges. This often results in a complicated mix of proprietary systems with significant performance and support issues. However now with SDC, Hitachi is providing a direct bridge between the IT layer and the factory floor operation.

Examples of this: An IT professional could easily mine data necessary for business management from printers located on the factory floo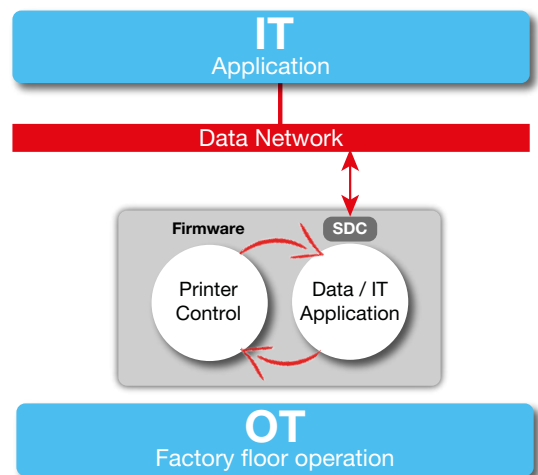r without having intimate knowledge of the printers internal processes. In short, SDC can be used to seamlessly implement business logic.

Modern Communication Protocols

By employing modern open protocols such as OPC-UA, Hitachi's printers are ready for the upcoming Industry 4.0/IoT revolution. This open style data connectivity enables our printer to be compatible with virtually any networked platform regardless of OS. In addition, the latest UX printers* come equipped with Ethernet/IP, OPC-UA, Modbus, and Serial RS-232. Hitachi is currently the first CIJ manufacturer to gain ODVA approval for Ethernet/IP.

ODVA is a trade and standards development organization, Michigan USA

Immediate HMI Response

Upgraded processing power allows the printer* to react to operator inputs instantly, giving the user a lightning fast experience. The intuitive guided interface will feel familiar from the first use.

*Available for UX-D (D161W, D151W) and UX-P (UX-P161W)
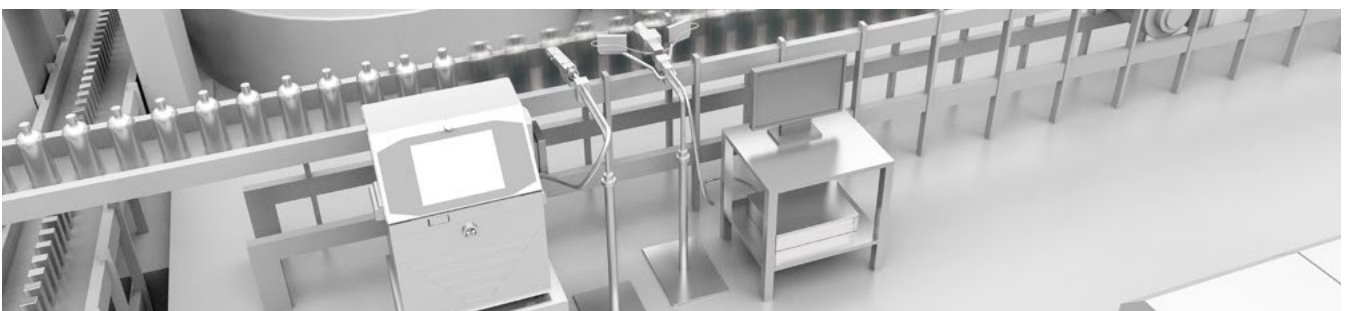
Pigmented - High Performance for High Contrast

UX-P for Pigmented Inks

The UX Printer is designed for high contrast marking on dark surfaces with pigmented inks at highest quality. Typical application areas include automotive parts, cables, plastic piping and electronic components.

Worry-Free Standby Circulation

The UX Series Pigmented inkjet printer also incorporates an ink circulation control method that allows ink to circulate even in standby mode. This helps to prevent ink fixing, increasing operational efficiency and further reducing potential downtime.
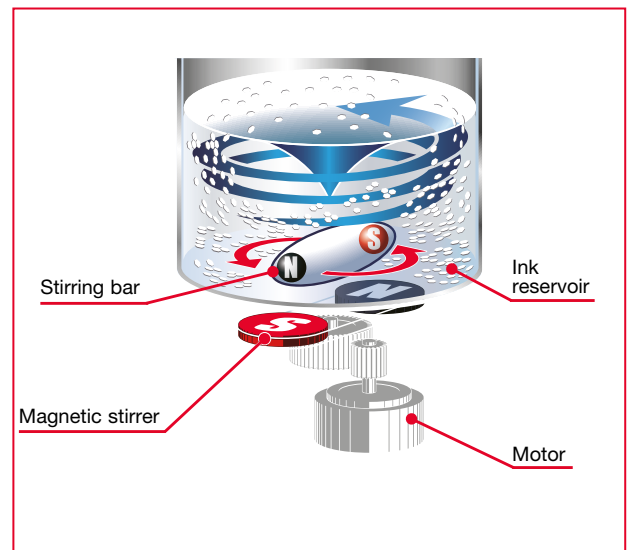
Airless Stirring System

Most pigmented inkjet systems require air to prevent settling and agglomeration, but the UX-P inkjet printer relies on a simple, yet highly effective Magitate system. This system reduces filter and nozzle clogging and eliminates the need for costly modifications to your compressed air system.

Stirring bar

Ink reservoir

Magnetic stirrer

Motor

Electric stirrer

Magnet + A**gi**tate = Magitate
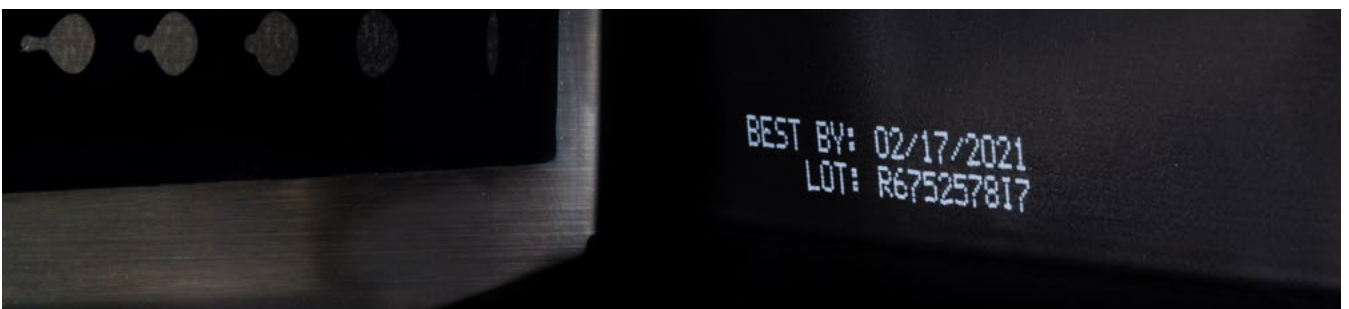
Twin Nozzle Model

Flexible Eight-line Print

The UX twin print head now offers the ability to produce 8 lines of text by combining two individual nozzles into one, compact design. In additon, by utilizing Hitachi's first on the market "interlaced" print control technique, multiple line messages are printed clearly and legibly, further reducing coding errors due to misprint.

High-speed Printing

Two nozzles at one print head realizes double-speed printing, which can track even on a high-speed production line, resulting in high-quality printing regardless of the number of print lines.

Versatile 64-Dot

Hitachi's innovative design now produces 64 vertical dots of print, resulting in large, bold characters. This makes the UX twin-nozzle printer ideally suited to mark company logos, UL marks, or any other pattern previously unachievable with traditional print heads.

Character Stitch Capability

A unique option in the new twin-nozzle printer is the ability to stitch both nozzles together. This results in characters that are bigger and bolder than ever, compared to those printed by individual nozzles. This is particularly useful when character recognition is needed at a distance from the product.
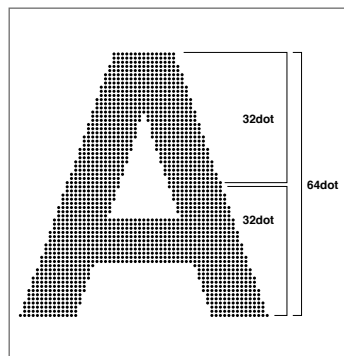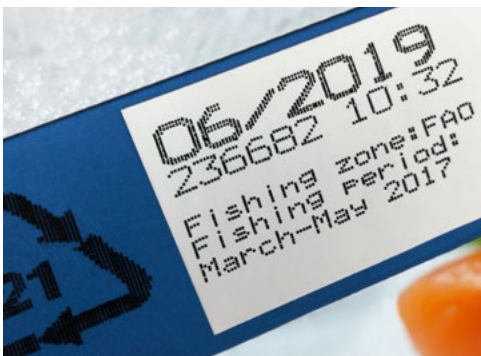
Image is for illustration purposes

Standard
Print Samples
&
Standard
Specifications

UX-B Model / UX-D Model / UX-E Model
65μm (Basic / Standard / Premium)

Font (Horizontal x Vertical)	UX-E160W (Premium)			UX-D161W (Standard)
	UX Series			
5 x 5	1 LINE: 0123456789ABCDEFGH / 012345678	2 LINE: 012345678 ABCDEFGHI	3 LINE: 012345678 ABCDEFGHI JKLMNOPQR	6 LINE / 4 LINE (character sample)
5 x 7	1 LINE: 0123456789ABC / 0123456	2 LINE: 012345678 ABCDEFGHI	3 LINE: 012345678 ABCDEFGHI JKLMNOPQR	4 LINE: 012345678 ABCDEFGHI JKLMNOPQR STUVWXYZA
7 x10	1 LINE: 0123456789 / 012345	2 LINE: 01234567 ABCDEFGH	3 LINE: 0123456789013456 ABCDEFGHIJKLNOPQ TUVWXYZABCDEGHIJ	
10 x 12	1 LINE: 0123456789ABC / 0123456789	2 LINE: 01234567890 ABCDEFGHIJK		
12 x 16	1 LINE: 0123456789ABC / 0123456 01 ▨	2 LINE: 012 ABC ▨		
18 x 24	1 LINE: 0123456789 / 0123456ABC			
24 x 32	1 LINE: 012345ABCD ▣			
30 x 40	1 LINE: 012345ABCDEF			
36 x 48	1 LINE: 012345ABCD			

Standard Specifications

Item		UX-B160W (Basic)	Model UX-D161W (Standard)	UX-E160W (Premium)
Nozzle Size		65µm		
Maximum number of print lines		Up to 3 lines	Up to 6 lines	
Maximum number of print characters		Up to 240 characters	Up to 240 characters (Option: Up to 1,000 characters)	Up to 1,000 characters
Font (Horizontal x Vertical)	4 x 5	-	✓	✓
	5 x 5	✓	✓	✓
	5 x 7(8), 9 x 7(8)	✓	✓	✓
	7 x 10	✓	✓	✓
	11 x 11	✓ (Chinese only)	✓ (Chinese only)	✓ (Chinese only)
	10 x 12	✓	✓	✓
	12 x 16	✓	✓	✓
	18 x 24	✓	✓	✓
	24 x 32	-	✓	✓
	30 x 40	-	✓	✓
	36 x 48	-	✓	✓
Character height		2 - 10 mm		
Display & input device		WYSIWYG design display: TFT LCD (10.4" color), backlight provided input device: Touch panel, input sound provided		
Screen language (2 languages selectable)		English, Chinese, Korean, Thai, Vietnamese, German, French, Dutch, Italian, Spanish, Portuguese, Swedish, Danish, Greek, Russian, Czech, Polish, Arabic, Serbian, Turkish, Hungarian, Bulgarian, Catalan, Romanian, Finnish, Norwegian, Slovenian		
Maximum print rate (Character per second) (Font 5x5, space 1, 1 line)		Up to 1,148	Up to 1,148 (Option: Up to 2,296)	Up to 2,296
Standard characters		Alphanumeric (A-Z, a-z, 0-9), symbols (27) and space: Total 90		
User patterns		50 patterns each for dot matrix	200 patterns each for dot matrix (50 patterns for 30x40 and 36x48 fonts)	
Print functions		Calendar, Count, Font mixture, Password		
Barcode printing		-	code39, ITF, NW-7, EAN-13, EAN-8, UPC-A, UPC-E, code128/EAN-128, GS-1 DataBar	
2D printing		-	Data Matrix (Alphabet: 49 characters/Numbers: 98 characters), QR Code, Micro QR code	
Message storage capacity		150 Messages	300 Messages [Option: Up to 2,000 Messages (depends on data content)]	2,000 Messages (Depends on data content)
Input signal		Print target detection, Rotary encoder pulse, (NPN/PNP Selectable))	Print target detection, Printing stop, Rotary encoder pulse, Reciprocative printing, Remote control (Run, Stop, High-voltage ON/OFF, Reset), (NPN/PNP Selectable)	
Output signal		Print ready, Fault, Warning (NPN Only)	Print in progress or Print complete, Online (NPN/PNP Selectable), Print ready, Fault, Warning (NPN Only)	
Data interface		Option (RS-232C at baud rates selectable up to 115,200bps)	RS-232C at baud rates selectable up to 115,200bps	
Ethernet (Modbus/TCP, EtherNet/IP, OPC-UA)		-	IEEE802.3, 100BASE-T	
External memory		USB for user data storage		
Printhead cable length / angle		4m (in-line/90 degrees)	4m (in-line/90 degrees; Option: 6m)	4m (in-line/90 degrees)
Operating temperature range		0-45°C (1069K Ink)*		
Operating humidity range		30-90% RH (no condensation)		
Power supply (Automatic voltage selection)		AC100-120/220-240V±10% 50/60Hz 120 VA		
Approval		CE, UL, cUL, C-Tick, FCC, ICES		CE, C-Tick
Dimensions (Width x Depth x Height)		400 x 320 x 527 mm		
International protection		IP55	IP65	
Approximate weight		27kg		

* Ink types and temperature are limited.

Note: Main unit dimensions do not include any projections.

LCD Touch Panel
Power Switch
527
Print Head Cable 4,000
320
400
Print Head
40
235
40

UX-D Model
55μm (High Speed) / 40μm (Small Characters)

Standard Print Samples — 55μm (High Speed)

Matrix	1 LINE	2 LINE	3 LINE	4 LINE
5 x 5	0123456789ABCDEFGH 012345678	012345678 ABCDEFGHI	012345678 ABCDEFGHI JKLMNOPQR	
5 x 7	0123456789ABC 0123456	012345678 ABCDEFGHI	012345678 ABCDEFGHI JKLMNOPQR	012345678 ABCDEFGHI JKLMNOPQR STUVWXYZA
7 x10	0123456789 012345	01234567 ABCDEFGH	01234567890123456 ABCDEFGHIJKLMNOPQR TUVWXYZABCDEFGHIJK	
12 x 16	0123456789ABC 012345 01 ▣			01234 ABCDE (2 LINE)
18 x 24	0123456789 ‖‖‖‖‖‖‖‖ 0123456^ABC			

Standard Print Samples — 40μm (Small Characters)

Matrix	1 LINE	2 LINE	3 LINE	4 LINE
5 x 5	0123456789. 123456789	0123456789 KLMNOPQRST ABCDEFGHIJ	0123456789 IJKLMNOPQR 0123456789	0123456789 IJKLMNOPQR 0123456789 IJKLMNOPQR
5 x 7	12345679ABCDEFGH 123456789R	1234567890123 ABCDEFGHIJKLM	123456790123456 ABCDEFGHIJKLMNO abcdefghijklmno	
7 x10	1234567890 123456789	1234567890123 ABCDEFGHIJKLM	1234567890123456789012345678 ABCDEFGHIJKLMNOPQRSTUVWXYZAB OPQRSTUVWXYZ123456789012345	
12 x 16	01234ABCDE 123456789ABC ▣			0123456789 ABCDEFGHIJ (2 LINE)
18 x 24	1234567ABCDEF			
24 x 32	1234567ABCDEF			

Standard Specifications

Item		Model	
		UX-D151W	**UX-D140W**
Nozzle Size		55µm	40µm
Maximum number of print lines		Up to 4 lines	Up to 4 lines
Maximum number of print characters		Up to 1,000 characters	Up to 1,000 characters
Font (Horizontal x Vertical)	4 x 5	✓	✓
	5 x 5	✓	✓
	5 x 7(8), 9 x 7(8)	✓	✓
	7 x 10	✓	✓
	11 x 11	✓ (Chinese only)	✓ (Chinese only)
	10 x 12	-	-
	12 x 16	✓	✓
	18 x 24	✓**	✓
	24 x 32	-	✓
	30 x 40	-	-
	36 x 48	-	-
Character height		2 - 7 mm	1 - 3,5 mm
Display & input device		WYSIWYG design display: TFT LCD (10.4" color), backlight provided input device: Touch panel, input sound provided	
Screen language (2 languages selectable)		English, Chinese, Korean, Thai, Vietnamese, German, French, Dutch, Italian, Spanish, Portuguese, Swedish, Danish, Greek, Russian, Czech, Polish, Arabic, Serbian, Turkish, Hungarian, Bulgarian, Catalan, Romanian, Finnish, Norwegian, Slovenian	
Maximum print rate (Character per second) (Font 5x5, space 1, 1 line)		Up to 3,173	Up to 3,030
Standard characters		Alphanumeric (A-Z, a-z, 0-9), symbols (27) and space: Total 90	
User patterns		200 patterns each for dot matrix	
Print functions		Calendar, Count, Font mixture, Password	
Barcode printing		code39, ITF, NW-7, EAN-13, EAN-8, UPC-A, UPC-E, code128/EAN-128, GS-1 DataBar	
2D printing		Data Matrix (Alphabet: 49 characters/Numbers: 98 characters), QR Code, Micro QR code	
Message storage capacity		300 Messages [Option: Up to 2,000 Messages (depends on data content)]	
Input signal		Print target detection, Printing stop, Rotary encoder pulse, Reciprocative printing, Remote control (Run, Stop, High-voltage ON/OFF, Reset), (NPN/PNP Selectable)	
Output signal		Print in progress or Print complete, Online (NPN/PNP Selectable), Print ready, Fault, Warning (NPN Only)	
Data interface		RS-232C at baud rates selectable up to 115,200bps	
Ethernet		Modbus/TCP, Ethernet/IP, OPC-UA, IEEE802.3, 100BASE-T	Modbus/TCP, IEEE802.3, 100BASE-T
External memory		USB for user data storage	
Printhead cable length / angle		4m (in-line/90 degrees)	
Operating temperature range		0-40°C (1069K Ink)*	0-35°C (1069K Ink)*
Operating humidity range		30-90% RH (no condensation)	
Power supply (Automatic voltage selection)		AC100-120/220-240V±10% 50/60Hz 120 VA	
Approval		CE, UL, cUL, C-Tick, FCC, ICES	
Dimensions (Width x Depth x Height)		400 x 320 x 527 mm	
International protection		IP65	
Approximate weight		27kg	

* Ink types and temperature are limited.
** Please consult your sales representative for further upgrade options.

LCD Touch Panel

Power Switch

527

Print Head Cable 4,000

320

400

40

Print Head

40

235

Note: Main unit dimensions do not include any projections.

UX-D Model
100µm (Large Characters)

Standard Print Samples

4 x 5	1 LINE	01234567	2 LINE	01234567 ABCDEFGH	3 LINE	01234567 ABCDEFGH IJKLMNOP	4 LINE	01234567 ABCDEFGH IJKLMNOP 89012345
5 x 5	1 LINE	01234567	2 LINE	0123456 ABCDEFG	3 LINE	12345678 ABCDEFGH 89012345	4 LINE	12345678 ABCDEFGH 89012345 IJKLMNOP
5 x 7	1 LINE	12345678	2 LINE	12345678 ABCDEFGH	3 LINE	12345678 ABCDEFGH 90123456	4 LINE	12345678 ABCDEFGH 90123456 IJKLMNOP
9 x 7	1 LINE	12345678	2 LINE	12345678 ABCDEFGH	3 LINE	123456789 ABCDEFGHI 012345678	4 LINE	123456789 ABCDEFGHI 012345678 JKLMNOPQR
7 x10	1 LINE	1234567	2 LINE	123456 ABCDEF	3 LINE	123456789 ABCDEFGHI 012345678		
12 x 16	1 LINE	123456789					2 LINE	12345 ABCDE
18 x 24	1 LINE	123456789						
24 x 32	1 LINE	123456789						

Standard Specifications

Item		Model
		UX-D110W
Nozzle Size		100μm
Maximum number of print lines		Up to 4 lines
Maximum number of print characters		Up to 1,000 characters
Font (Horizontal x Vertical)	4 x 5	✓
	5 x 5	✓
	5 x 7(8), 9 x 7(8)	✓
	7 x 10	✓
	11 x 11	-
	10 x 12	-
	12 x 16	✓
	18 x 24	✓
	24 x 32	✓
	30 x 40	-
	36 x 48	-
Character height		2 - 20 mm
Display & input device		WYSIWYG design display: TFT LCD (10.4" color), backlight provided input device: Touch panel, input sound provided
Screen language (2 languages selectable)		English, Chinese, Korean, Thai, Vietnamese, German, French, Dutch, Italian, Spanish, Portuguese, Swedish, Danish, Greek, Russian, Czech, Polish, Arabic, Serbian, Turkish, Hungarian, Bulgarian, Catalan, Romanian, Finnish, Norwegian, Slovenian
Maximum print rate (Character per second) (Font 5x5, space 1, 1 line)		Up to 468
Standard characters		Alphanumeric (A-Z, a-z, 0-9), symbols (27) and space: Total 90
User patterns		200 patterns each for dot matrix
Print functions		Calendar, Count, Font mixture, Password
Barcode printing		code39, ITF, NW-7, EAN-13, EAN-8, UPC-A, UPC-E, code128/EAN-128, GS-1 DataBar
2D printing		Data Matrix (Alphabet: 49 characters/Numbers: 98 characters), QR Code, Micro QR code
Message storage capacity		300 Messages [Option: Up to 2,000 Messages (depends on data content)]
Input signal		Print target detection, Printing stop, Rotary encoder pulse, Reciprocative printing, Remote control (Run, Stop, High-voltage ON/OFF, Reset), (NPN/PNP Selectable)
Output signal		Print in progress or Print complete, Online (NPN/PNP Selectable), Print ready, Fault, Warning (NPN Only)
Data interface		RS-232C at baud rates selectable up to 115,200bps
Ethernet		Modbus/TCP IEEE802.3, 100BASE-T
External memory		USB for user data storage
Printhead cable length / angle		4m (in-line/90 degrees)
Operating temperature range		0-35°C (1069K Ink)*
Operating humidity range		30-90% RH (no condensation)
Power supply (Automatic voltage selection)		AC100-120/220-240V±10% 50/60Hz 120 VA
Approval		CE, UL, cUL, C-Tick, FCC, ICES
Dimensions (Width x Depth x Height)		400 x 320 x 527 mm
International protection		IP65
Approximate weight		27kg

* Ink types and temperature are limited.

Note: Main unit dimensions do not include any projections.

Standard Print Samples

5 x 5	1 LINE: 0123456789ABCDEFGH / 0123456789	2 LINE: 012345678 ABCDEFGHI	3 LINE: 012345678 ABCDEFGHI JKLMNOPQR 6 LINE
5 x 7	1 LINE: 0123456789ABCD / 0123456	2 LINE: 012345678 ABCDEFGHI	3 LINE: 0123456789 ABCDEFGHI JKLMNOPQR 4 LINE
7 x 10	1 LINE: 0123456789 / 012345	2 LINE: 01234567 ABCDEFGH	3 LINE: 012345678901234567 8 ABCDEFGHIJKLMNOPQRS TUVWXYZABCDEFGHIJKL
10 x 12	1 LINE: 0123456789ABCD / 0123456789	2 LINE: 01234567890 ABCDEFGHIJK	
12 x 16	1 LINE: 0123456789ABCアイウエオカキクケコ / 0123456 01	2 LINE: 01234 ABCDE	
18 x 24	1 LINE: 0123456789 / 0123456ABC		
24 x 32	1 LINE: 0123456789ABCDEF / 012345		
30 x 40	1 LINE: 012345ABCDEF		
36 x 48	1 LINE: 012345ABCD		

Logo	JIS mark	CE mark	UL mark	DIN printing	Chimney printing
	JIS	CE	UL	ABC	012345

Standard Specifications

Item	Model UX-P161W		
Nozzle Size	65μm		
Maximum number of print lines	Up to 6 lines		
Maximum number of print characters	Up to 1,000 characters		
Font (Horizontal x Vertical)	4 x 5	✓	
	5 x 5	✓	
	5 x 7(8), 9 x 7(8)	✓	
	7 x 10	✓	
	11 x 11	✓ (Chinese only)	
	10 x 12	✓	
	12 x 16	✓	
	18 x 24	✓	
	24 x 32	✓	
	30 x 40	✓	
	36 x 48	✓	
Character height	2 - 10 mm		
Display & input device	WYSIWYG design Display: TFT LCD (10.4'' color), backlight provided Input device: Touch panel, input sound provided		
Screen language (2 languages selectable)	English, Chinese, Korean, Thai, Vietnamese, German, French, Dutch, Italian, Spanish, Portuguese, Swedish, Danish, Greek, Russian, Czech, Polish, Arabic, Serbian, Turkish, Hungarian, Bulgarian, Catalan, Romanian, Finnish, Norwegian, Slovenian		
Maximum print rate (Character per second) (Font 5x5, space 1, 1 line)	Up to 2,083 (JP-W89 Ink)		
Standard characters	Alphanumeric (A-Z, a-z, 0-9) , symbols (27) and space: Total 90		
User patterns	200 patterns each for dot matrix		
Print functions	Calendar, Count, Font mixture		
Barcode printing	code39, ITF, NW-7, EAN-13, EAN-8, UPC-A, UPC-E, code128/EAN-128, GS-1 DataBar		
2D printing	Data Matrix (Alphabet: 49 characters/Numerals: 98 characters), QR, Micro QR code		
Message storage capacity	Up to 2,000 Messages (Depends on data content)		
Input signal	Print target detection, Printing stop, Rotary encoder pulse, Reciprocative printing, Remote control (Run, Stop, High-voltage ON/OFF, Reset), (NPN/PNP Selectable)		
Output signal	Print in progress or Print complete, Online (NPN/PNP Selectable), Print ready, Fault, Warning (NPN Only)		
Data interface	RS-232C at baud rates selectable up to 115,200bps		
Ethernet	Modbus/TCP, EtherNet/IP, OPC-UA, IEEE802.3, 100BASE-T		
External memory	USB for user data storage		
Printhead cable length / angle	4m (in-line/90 degrees)		
Operating temperature range	0-40°C (JP-W89 Ink)*		
Operating humidity range	30-90% RH (no condensation)		
Power supply (Automatic voltage selection)	AC100-120/220-240V±10% 50/60Hz 120 VA		
Approval	CE, UL, cUL, RCM, FCC, ICES		
Dimensions (Width x Depth x Height)	400 x 320 x 527 mm		
International protection	IP65		
Approximate weight	27kg		

* Ink types and temperature are limited.

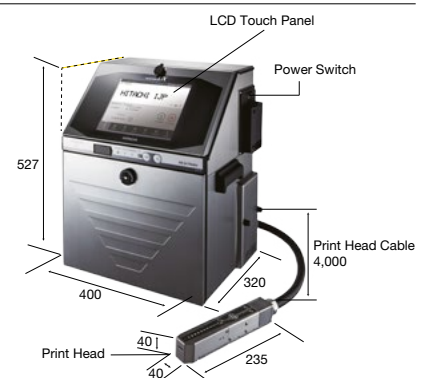Note: Main unit dimensions do not include any projections.

Standard Specifications

High-speed printing	2 LINE — Nozzle 2: `01234567` / Nozzle 1: `ABCDEFGH` — 160m/min, Font: 5x7		2 LINE — Nozzle 2: `01234567` / Nozzle 1: `ABCDEFGH` — 200m/min, Font: 5x7
2,3-line printing	2 LINE — Nozzle 2: `01234567890` / Nozzle 1: `ABCDEFGHIJK` — Font: 7x10		3 LINE — Nozzle 2: `01234567890` / Nozzle 1: `ABCDEFGHIJK TWINNOZZLE8` — Font: 7x10
Multi-line printing (4line, 8line)	4 LINE — Nozzle 2 (2 line English): `05/08/18 ABCD` `05/02/19 1234` / Nozzle 1 (2 line Arabic): `٠٥/٠٨/١٨ ABCD` `٠٥/٠٢/١٩ ١٢٣٤` — Font: 5x8		8 LINE — Nozzle 2 (4 line): `SELL BY AUG 8` `MANUFACTURED BY HIES 11:37:17` `BEST BY 05 FEB(FEB)2020` `LOV 8929 0417 6557` / Nozzle 1 (4 line): `HITACHI INDUSTRIAL EQUIPMENT` `MADE IN JAPAN` `TEL:+81-4345-6077` `IOS 9001` — Font: 5x7

Dot mixture

Nozzle 2: `ABCD BEST BY` `HIES UX` `017H04` `S28N02`
Nozzle 1: `05FEB(FEB)2019` — Font: 5x8, 12x6

Nozzle 2: `UXTWIN TOKYO EXPO PACKAGING TECHNICAL AREA CODING 860`
Nozzle 1: `HITACHI INDUSTRIAL EQUIPMENT SYSTEMS` — Font: 5x7, 12x6

Logos*

Nozzle 2 / Nozzle 1: CE — 40 dots
Nozzle 2 / Nozzle 1: JIS — 48 dots
Nozzle 2 / Nozzle 1: A — 64 dots
Nozzle 2 / Nozzle 1: (wave image) — 64 dots

Bold characters

Nozzle 2: `5x7 BOLD 2 LINE S` `5x7 BOLD 2 LINE B`
Nozzle 1: `5x7 BOLD 2 LINE S` `5x7 BOLD 2 LINE B` — Font: 5x7

Chimney characters

Nozzle 2: `7x5 CHIMNEY PRINT`
Nozzle 1: `7x5 CHIMNEY PRINT` — Font: 5x7

Nozzle 2: `7x5 CHIMNEY PPP...`
Nozzle 1: `7x5 CHIMNEY PPP...` — Font: 5x7

Inverted characters (DIN printing)

Nozzle 2: `12X16 DIN PRINT`
Nozzle 1: `7x5 DIN CHIMNEY PRINT` — Font: 12x6, 7x5

Barcodes, QR Codes & Datamatrix

Nozzle 2 / Nozzle 1: (barcode) `6 11942 03936 4` `4400 4" X 10'` — Font: 24x32, 5x7
Nozzle 2 / Nozzle 1: (Micro QR) `Micro QR Code` — Font: 15x15, 5x7
Nozzle 2 / Nozzle 1: (Datamatrix) `Our Web Here` — Font: 16x36, 5x7

* When printing logos, please make sure the image is acceptable to the association or the organization.

Standard Specifications

Item		Model
		UX-D860W
Nozzle Size		65µm
Maximum number of print lines		Up to 8 lines
Maximum number of print characters		Up to 1,000 characters
Font (Horizontal x Vertical)	4 x 5	✓
	5 x 5	✓
	5 x 7(8), 9 x 7(8)	✓
	7 x 10	✓
	11 x 11	✓ (Chinese only)
	10 x 12	✓
	12 x 16	✓
	18 x 24	✓
	24 x 32	✓
	30 x 40	✓
	36 x 48	✓
	48 x 64	✓
Character height		2 - 21 mm
Display & input device		WYSIWYG design; Display: TFT LCD (10.4" color), backlight provided Input device: Touch panel, input sound provided
Screen language (2 languages selectable)		English, Chinese, Korean, Thai, Vietnamese, German, French, Dutch, Italian, Spanish, Portuguese, Swedish, Danish, Greek, Russian, Czech, Polish, Arabic, Serbian, Turkish, Hungarian, Bulgarian, Catalan, Romanian, Finnish, Norwegian, Slovenian
Maximum print rate (Character per second) (Font 5x5, space 1, 1 line/nozzle)		Up to 2,296 per nozzle
Standard characters		Alphanumeric (A-Z, a-z, 0-9), symbols (27) and space: Total 90
User patterns		200 patterns each for dot matrix (50 patterns for 30x40, 36x48, 48x64 fonts)
Print functions		Calendar, Count, Font mixture, Shift Code
Barcode printing		code39, ITF, NW-7, EAN-13, EAN-8, UPC-A, UPC-E, code128/EAN-128, GS-1 DataBar
2D code printing		Data Matrix (Alphabet: 49 characters/Numerals: 98 characters), QR Code, Micro QR code
Message storage capacity		Up to 2,000 messages (Depends on data content)
Input signal		Print target detection, Printing stop, Rotary encoder pulse, Reciprocative printing, Remote control (Run, Stop, High-voltage ON / OFF, Reset), (NPN / PNP Selectable)
Output signal		Print in progress or Print complete, Online (NPN / PNP Selectable), Print ready, Fault, Warning (NPN Only)
Data interface		RS-232C at baud rates selectable up to 115,200bps
Ethernet (Modbus communication)		IEEE802.3 , 100BASE-T
External memory		USB for user data storage
Printhead cable length / angle		4m (in-line/90 degrees)
Operating temperature range		0-40° (1072K Ink)*
Operating humidity range		30-90% RH (no condensation)
Power supply (Automatic voltage selection)		AC100-120/220-240V±10% 50/60Hz 150VA
Approval		CE, UL, cUL, RCM, FCC, ICES
Dimensions (Width x Depth x Height)		400 x 395 x 527 mm
International protection		IP55
Approximate weight		34kg

* Ink types and temperature are limited.

Note: Main unit dimensions do not include any projections.

LCD Touch Panel
Power Switch
527
Print Head Cable 4,000
395
400
Print Head
56
280
45

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