NEW

HITACHI
Inspire the Next

Marking & Coding Solutions

Inkjet Printer

UX2 Series

DISTRIBUTED BY PAK TEC

RELIABILITY
Highly reliable design and superior construction

EFFICIENCY
Environmentally friendly with low operational costs

EASE OF USE
Simple touchscreen operation with video-based guidance

For over 45 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 UX2 Series the perfect solution** for both complex and standard applications.

Highly Reliable

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 solvent consumption and the **very low maintenance costs minimize the total cost of ownership.**

Global Sales & Service Network

Are you looking for a **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, a global perspective, broad expertise and coordinated services provided by dedicated contacts. Our **global team** applies its **worldwide technical expertise** to your **unique challenges** in a consistent way. Tangible deliverables and proven solutions are the results of our business analysis and project implementation. In addition, we offer **cross-border project management and coordination** between suppliers, OEMs and end-users. **You gain more visibility and save time and money.**

Overview of UX2

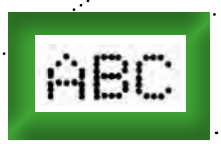
INTUITIVE HMI

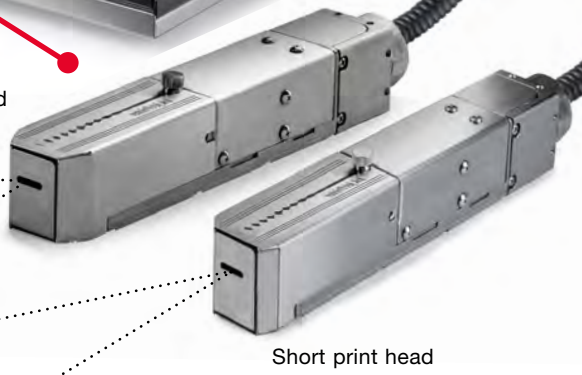
VIDEO GUIDANCE ONBOARD

SAFE-CLEAN STATION (OPTIONAL)

LESS PRINT HEAD CLEANING

IMPROVED PRINT QUALITY





Standard print head (up to 6 lines)

Short print head (up to 2 lines)

Prints 3 Times Longer

Newly designed to stay **cleaner, longer**

Conventional Printers

With **conventional print heads**, ink mists*1 are deposited onto components that control the inkjet. Over time, the build-up of ink can result in **downtime leading to lost production.**

*1 Ink mist build-up may vary depending on operating conditions.

Prints 3 Times Longer with Ink Guard

UX2 printers can print for **3 times longer** than previous generations*2 due to a **unique print head design**. The ink guard feature attracts the ink mist to a collection area away from the sensitive printing components. The result is **fewer print quality issues** and **less frequent print head cleaning.** Keeping your production running while maintaining a **clean production environment.**

*2 Results refer to the same test environment and test conditions compared with UX Standard.

Increased Production - Less Downtime

Clearer Codes

Clear, **Precise Codes** at the Most Demanding Speeds

Using improved **dot control algorithms**, our newly designed UX2 printer is capable of producing **clearly legible codes** at the **most demanding production speeds**.

Dual Line Printing

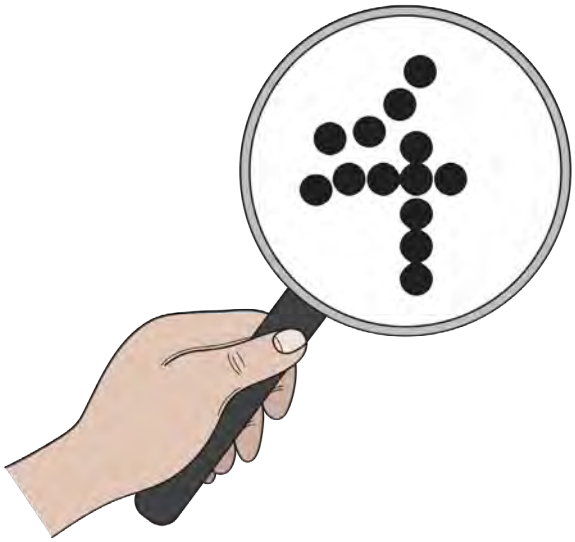
Now 40% FASTER*

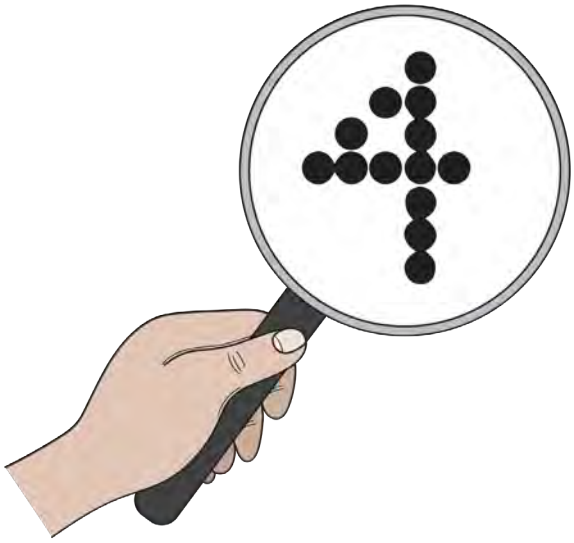
Three-Line Printing

Now 45% FASTER*

Available with Two Head Sizes to Optimize Print Quality

Our standard head produces crisp code quality from 1 to 6 lines of print. A field configurable “short” print head option focuses on the most demanding print speed applications that require 1 or 2 lines of print.**





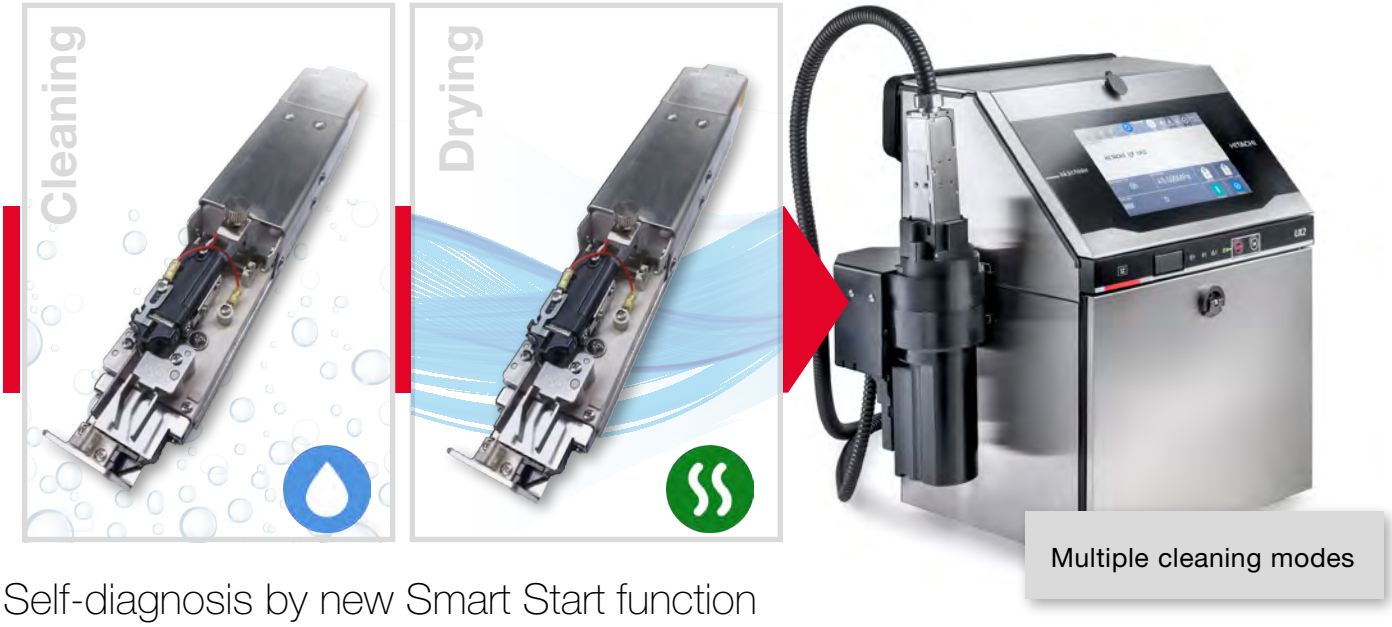
* with high frequency compatible inks

** only 2-line printing possible

Safe-Cleaning Printhead

Added **Convenience and Safety**

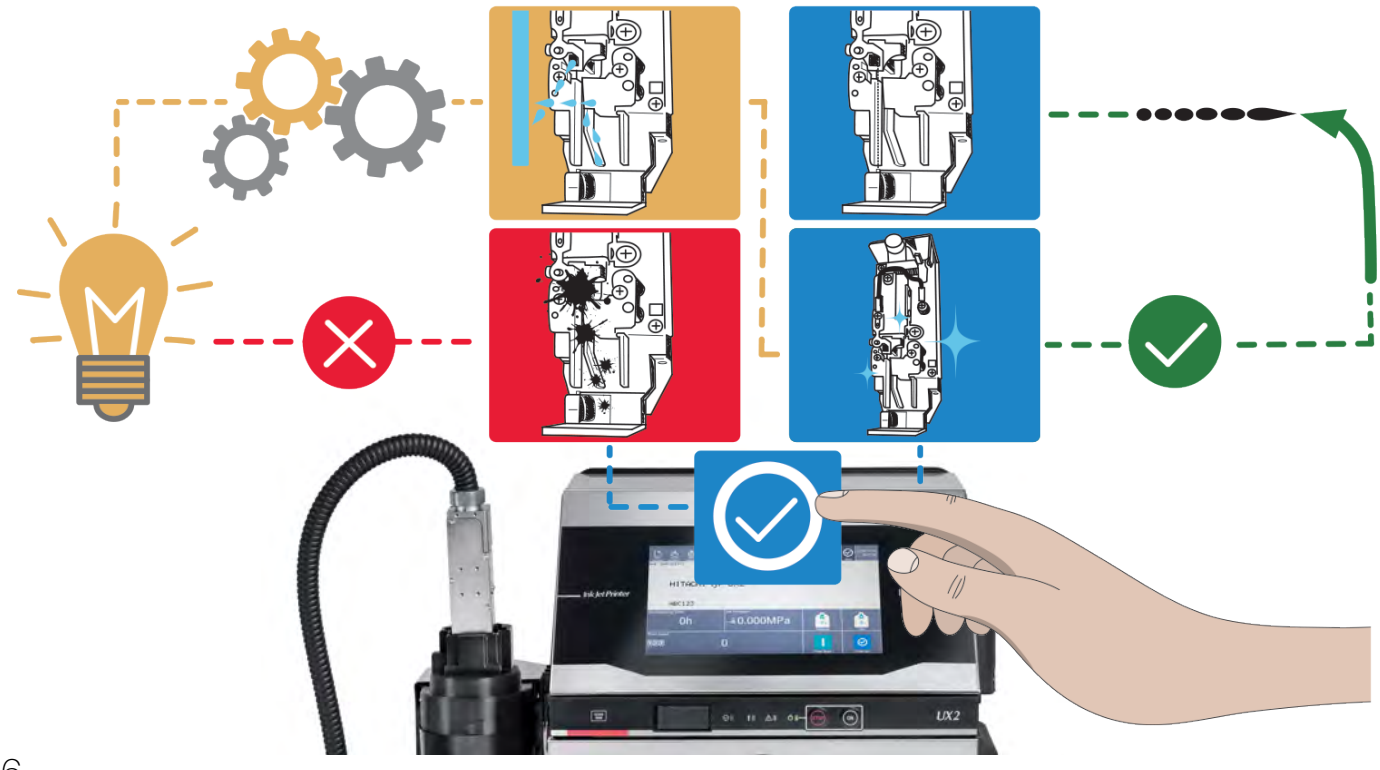
The sealed Safe-Clean Station thoroughly cleans and dries in one simple operation. Eliminate the need for open solvents when cleaning the print head. As the solvent volatilized during drying is sucked out by the air pump and discharged through the exhaust duct, the operator is not exposed to the solvent gas.
All used make-up cleaning solvent is captured in a sealed reservoir - for safe disposal.



Multiple cleaning modes

Self-diagnosis by new Smart Start function

Most of the downtime associated with inkjet printers is a result of a dirty nozzle. The self-diagnosis start-up with Safe clean station can be used to automatically clean the nozzle by reversing the flow of solvent when necessary, which helps ensure that IJP restarts smoothly.



Always ready to print

Even after long periods of inactivity, the cleaning station eliminates build-up of dried ink by periodically running an automatic nozzle-rinse according to a pre-programmed schedule. This means that the printer is always ready to print and will not need any manual cleaning at start of production.

Built-In Troubleshooting

Video on Board, for Preventative Maintenance and Recovery

An **interactive video** on the printer screen guides users to carry out **routine tasks, preventative maintenance activities** and even **recover the printer from a fault condition**. It's so intuitive, even untrained users can **easily follow** the **on board video guidance**.

As a result, daily interaction with the UX2 is **instinctive with no surprises**. When needed, users will be guided by the **video to clean the print head and add fluids**.

- Interactive video guide
- High-resolution video
- Guides the user to carry out **routine tasks, preventative maintenance** and **recovery from faults**

Intuitive Display & Simplified Printer Setup

Flexibility to **Meet Your Needs**

The printer screen is designed with **flexibility in mind**. With a **configurable home screen**, you can choose what information is critical to display to operators.

- Choose the information critical to your **production needs**.

Icon-Based Display

An **intuitive screen** with icon based indicators allowing users to quickly identify machine status, and ink levels.

Familiar **tablet-style** touch screen allows swipe functionality similar to smartphones and tablets.

Printer Specifications

		UX2 UX2-D160W
Nozzle size		65μm
Max. number of print lines		up to 6 lines
Max. number of print characters		240 characters (option: up to 1,000 characters)
Font (Horizontal × Vertical)	4x5	1 to 6 lines (Short printhead option : up to 2 lines)
	5x5	1 to 6 lines (Short printhead option : up to 2 lines)
	5x8 or 5x7	1 to 4 lines (Short printhead option : up to 2 lines)
	9x8 or 9x7	1 to 4 lines (Short printhead option : up to 2 lines)
	7x10	1 to 3 lines (Short printhead option : 1 line)
	10x12	1 to 2 lines (Short printhead option : 1 line)
	12x16	1 to 2 lines (Short printhead option : 1 line)
	18x24	1 line
	24x32	1 line
	30x40	1 line
	36x48	1 line
Character height		2-10mm (optional short print head: 2.0-6.5mm)
Input device & display		WYSWYG design Display: 10.1“ color TFT LCD, WSVGA(1024×600) Input device: Touch panel, input sound provided
Maximum print rate (character per second) (Font 4×5, space 1 dot, 1 line, 76.9kHz)		Up to 1,538 (option: up to 3,076)
Standard characters		Alphanumeric(A~Z, a-z,0~9), symbols(27) and space: Total 90
User pattern		200 patterns each for dot matrix (50 patterns for Free size)
Barcode print		code39, ITF, NW-7, JAN-13, JAN-8, code128/EAN128, UPC-A, UPC-E, GS-1 Databar
2D code printing		Data Matrix (Alphabet: 49 characters/Numericals: 98 characters), QR code (Alphabetical characters only: 61, Numbers only: 101), Micro-QR code (Alphabetical characters only: 11, Numbers only: 18)
Print functions		Calendar, Count, (Option: Shift code)
Message storage capacity		300 messages (option: up to 2000 messages)
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)
Customizable screen		✓
Animation guidance		✓
Safe-Clean-Station		Optional
Data interface		USB/RS-232 Converters at baud rates selectable up to 115,200bps
Ethernet communication		Modbus, EtherNet/IP, OPC-UA
Print head cable length / angle		4m (in-line/90 degrees)
Operating temperature range		0~50°C (1067K Ink)
Operating humidity range		30~90%RH (no condensation)
International protection		IP65
Power supply (Automatic voltage selection)		AC100~120/200~240V±10%, 50/60Hz
Dimension		460×425×534mm (Width×Depth×Height)
Approximate weight		27 kg (60 lbs)

Font (horizontal x vertical)								
5 x 5	1 LINE	0123456789ABCDEFGH 0123456789	2 LINE	0123456789 ABCDEFGHI	3 LINE	0123456789 ABCDEFGHI JKLMNOPQR	6 LINE	0123456789 ABCDEFGHI JKLMNOPQR STUVWXYZ
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 ABCDEFGHIJKLMNOPQ TUVWXYZABCDEGHIJ		
10 x 12	1 LINE	0123456789ABC 01234567890	2 LINE	0123456789 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						

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