

NEW

HITACHI

Marking & Coding Solutions

Inkjet Printer

UX2 Series



RELIABILITY

Highly reliable design and superior construction

EFFICIENCY

Environmentally friendly with low operational costs

EASE OF USE

Simple touchscreen operation with video-based guidance

Overview of UX2

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.

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)

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.

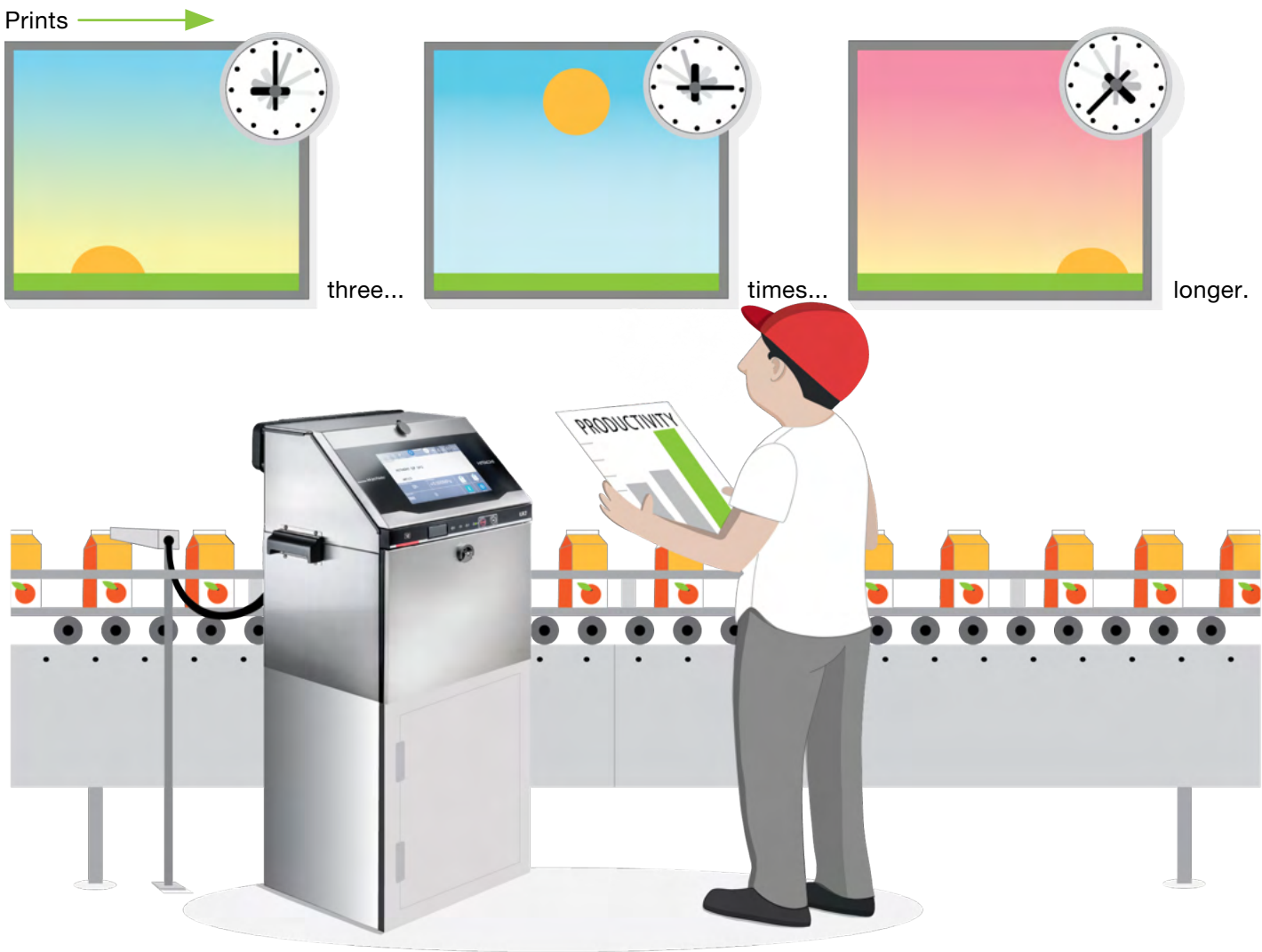
^{*1} Ink mist build-up may vary depending on operating conditions.

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



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* →



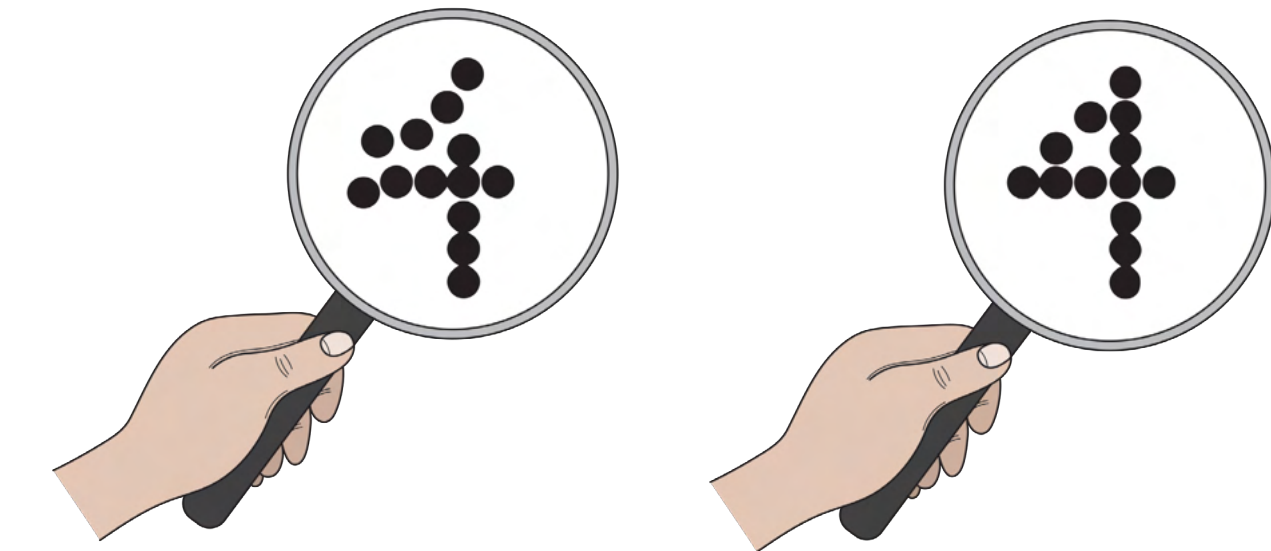
Three-Line Printing

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

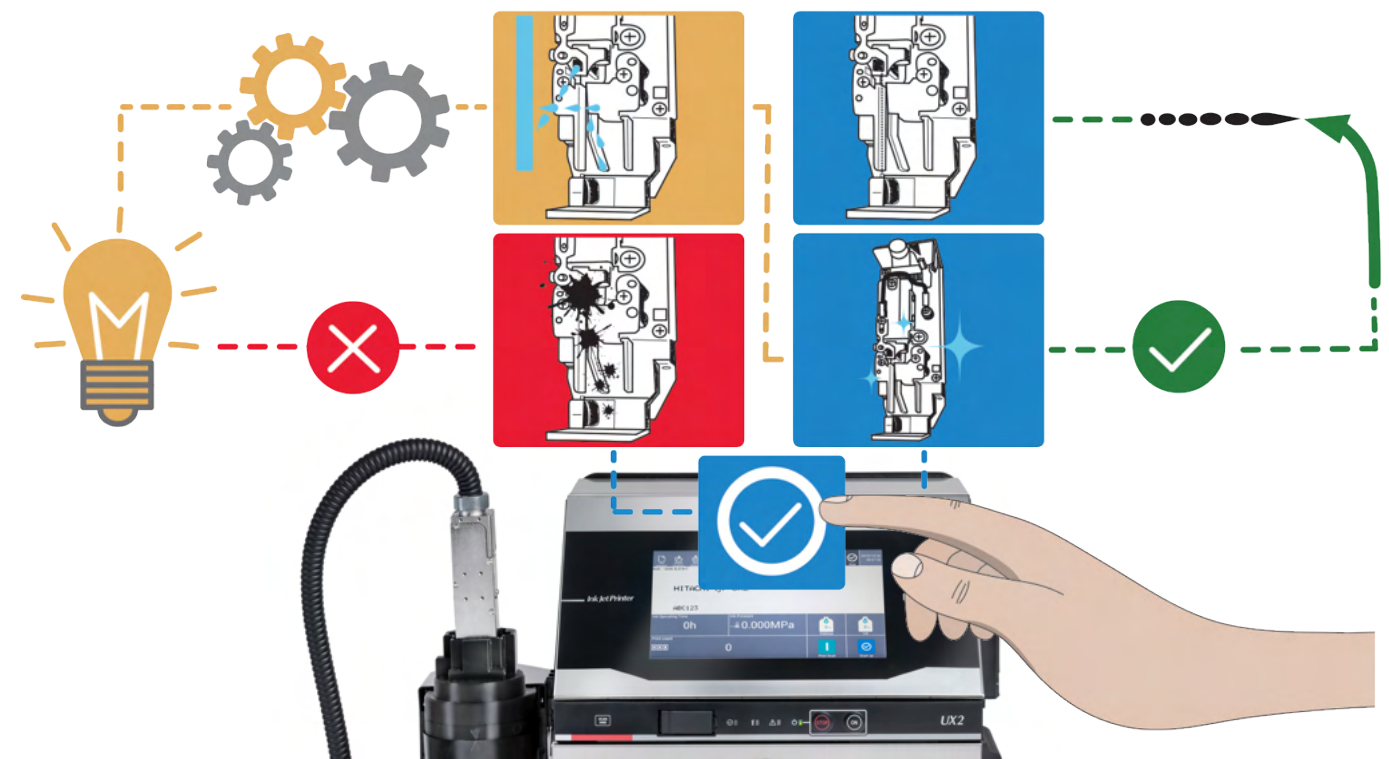
Added Convenience and Safety

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.



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.



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**

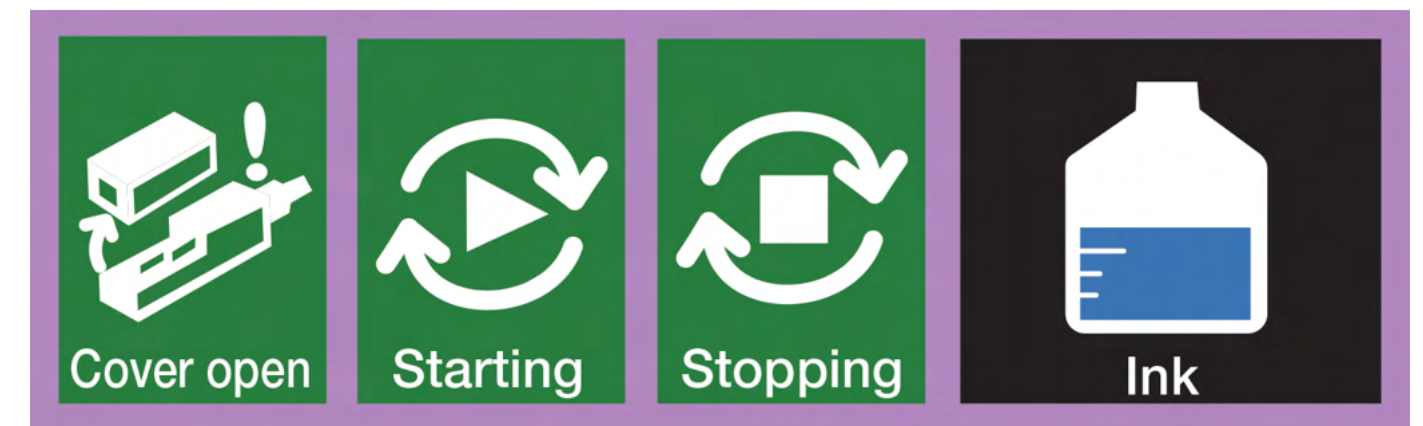
Flexibility to Meet Your Needs

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.

UX2-Dynamic



Part Number: UX2-D160W-E

The printhead is built with a 65-micron nozzle that is engineered with 1-6 line printing, ideal for low to medium duty application.

UX2-Dynamic with L-Shaped Printhead



Part Number: UX2-D160W-L-E

Save valuable floor space without sacrificing print quality. The UX2-Dynamic specialized right-angled printhead printer option is tailored for compact environments.

UX2-Dynamic with 6 Meter Cord



Part Number: UX2-D160W-6M-E

Maximize convenience and adaptability with the UX2-Dynamic's optional 6-meter printhead cord. Effortlessly navigates production lines and optimizes printhead placement for precise printing.

UX2-High Speed



Part Number: UX2-D150W-E

The printhead is built with a 55-micron nozzle that is precision-engineered for high-speed 1-4 line printing, ideal for industries with fast-paced production lines where print quality is crucial.

UX2-Micro



Part Number: UX2-D140W-E

The printhead is built with a 40-micron nozzle that is precision-engineered for 1-4 line printing, ideal for discrete and small markings in compliance-driven industries while maintaining product aesthetics.

UX2-Safe-Clean Station



Part Number: SF-CLEAN-STATION

Sealed system that cleans and dries printheads, diagnoses dirty nozzles, performs nozzle cleanings, improves ink viscosity, and serves as a long-term docking station to prevent clogged printers. Choose from Eco, Standard, or Deep Clean Mode for tailored cleaning. Plus, set up a scheduled ink recirculation before long downtimes, preventing any clogged ink paths.

UX2-Short Printhead Kit



Part Number: SHORT-HEAD-KIT

Seamlessly integrating with Hitachi's Enhanced Dot Control Algorithm, the Short Printhead ensures further superior printing quality at accelerated speeds. Ideal for up to 2 lines of prints.

MC-20 Vision Inspection System



Inquire for More Information

Designed to mimic human-like assessment. This innovative system adapts to changes in the size and line thickness of dot fonts, ensuring accurate, legible and consistent code verification for optimal quality control.

Hitachi Coding Software Suite (HCSS)



Inquire for More Information

A comprehensive printer controls software solution that enables facilities to manage and monitor the printer's status in real-time, all through a web-based browser accessible on remote devices. Try free for 30-days.

Smart Bottle Cartridge Inks & Solvents



Inquire for More Information

A wide range of continuous inkjet printer inks—including general performance, fast-drying, eco-friendly, retort-resistant, and other specialty formulations—designed for high performance and global compliance across diverse applications.

Printer Specifications

		UX2-Dynamic (UX2-D160W-E)	UX2-High Speed (UX2-D150W-E)	UX2-Micro (UX2-D140W-E)
Nozzle size		65µm	55µm	40µm
Max. number of print lines		6 lines	4 lines	4 lines
Max. number of print characters		240 (option: up to 1,000)		
Font (Horizontal × Vertical)	4x5	1 to 6 lines	1 to 4 lines	1 to 4 lines
	5x5	1 to 6 lines	1 to 4 lines	1 to 4 lines
	5x8 or 5x7	1 to 4 lines	1 to 4 lines	1 to 4 lines
	9x8 or 9x7	1 to 4 lines	1 to 4 lines	1 to 4 lines
	7x10	1 to 3 lines	1 to 2 lines	1 to 3 lines
	10x12	1 to 2 lines	-	1 to 2 lines
	12x16	1 to 2 lines	1 line	1 to 2 lines
	18x24	1 line	-	1 line
	24x32	1 line	-	1 line
	30x40	1 line	-	-
36x48	1 line	-	-	
Character height		2-10mm	1.5-10mm	1.5-10mm
Maximum print rate (character per second) (space 1 dot, 1 line)		3,076 (4x5, 76.9 kHz)	3,173 (5x5, 95.2 kHz)	3,030 (5x5, 90.9 kHz)
Display		10.1" color TFT LCD, WSVGA (1024×600)		
Input device		Touch panel, input sound provided		
Languages		English, Italian, Dutch, Spanish, German, French, Swedish, Russian, Greece, Czech, Danish, Portuguese, Polish, Serbian, Turkish, Hungarian, Bulgarian, Catalan, Rumanian, Finnish, Norwegian, Slovenian, Croatian, Hebrew, Ukrainian, Thai, Arabic, Vietnamese, Burmese, Bengali, Korean, Special Kanji (Simplified Chinese), Traditional		
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, EAN-13, EAN-8, Code128/EAN128 (GS1-128), UPC-A, UPC-E, GS-1 Databar, EAN-13 Add-on 5		
2D code printing		Data Matrix (GS1-DM, Alphabet: 49 characters/Numericals: 98 characters), QR code (GS1-QR, Alphabetical characters only: 90, Numbers only: 149), Micro-QR code (Alphabetical characters only: 11, Numbers only: 18), DotCode		
Print functions		Calendar, Count, (Option: Shift code)		
Message storage capacity		300 messages (option: up to 2000 messages)	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 Customizable screen		Print in progress or Print complete, Online (NPN/PNP selectable), Print ready, Fault, Warning (NPN only)		
Customizable screen		✓		
On-Screen animated 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		
Printhead cable length		4m (Optional: 6m)	4m	
Printhead angle		in-line, 90 degrees		
Operating temperature range (Based on 1411K Ink)		0~50°C	0~40°C	0~35°C
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	0123456789ABCDEF GH	2 LINE	012345678 ABCDEFGHI	3 LINE	012345678 ABCDEFGHI JKLMNOPQR	6 LINE	0123456789 ABCDEFGHIJKL MNOPQRST UVWXYZ
		012345678						
5 x 7	1 LINE	0123456789ABC	2 LINE	012345678 ABCDEFGHI	3 LINE	012345678 ABCDEFGHI JKLMNOPQR	4 LINE	0123456789 ABCDEFGHIJKL MNOPQRST UVWXYZ
		0123456						
7 x10	1 LINE	0123456789	2 LINE	01234567 ABCDEFGH	3 LINE	0123456789013456 ABCDEFGHIJKLNO PQ TUVWXYZABCDEFGHIJ		
		012345						
10 x 12	1 LINE	0123456789ABC	2 LINE	01234567890 ABCDEFGHIJK		01234567890 ABCDEFGHIJK		
		0123456789						
12 x 16	1 LINE	0123456789ABC	2 LINE	01234567890 ABCDEFGHIJK		01234567890 ABCDEFGHIJK		
		0123456		01234567890 ABCDEFGHIJK		01234567890 ABCDEFGHIJK		
18 x 24	1 LINE	0123456789		01234567890 ABCDEFGHIJK		01234567890 ABCDEFGHIJK		
		0123456ABC		01234567890 ABCDEFGHIJK		01234567890 ABCDEFGHIJK		
24 x 32	1 LINE	012345ABCD		01234567890 ABCDEFGHIJK		01234567890 ABCDEFGHIJK		
				01234567890 ABCDEFGHIJK		01234567890 ABCDEFGHIJK		01234567890 ABCDEFGHIJK
30 x 40	1 LINE	012345ABCDEF		01234567890 ABCDEFGHIJK		01234567890 ABCDEFGHIJK		
				01234567890 ABCDEFGHIJK		01234567890 ABCDEFGHIJK		01234567890 ABCDEFGHIJK
36 x 48	1 LINE	012345ABCD		01234567890 ABCDEFGHIJK		01234567890 ABCDEFGHIJK		
				01234567890 ABCDEFGHIJK		01234567890 ABCDEFGHIJK		01234567890 ABCDEFGHIJK



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