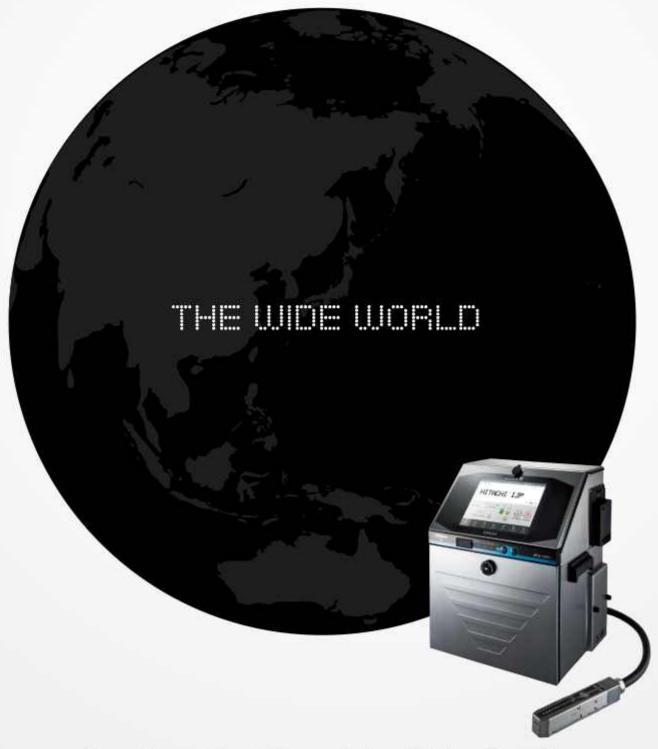
HITACHI Inspire the Next

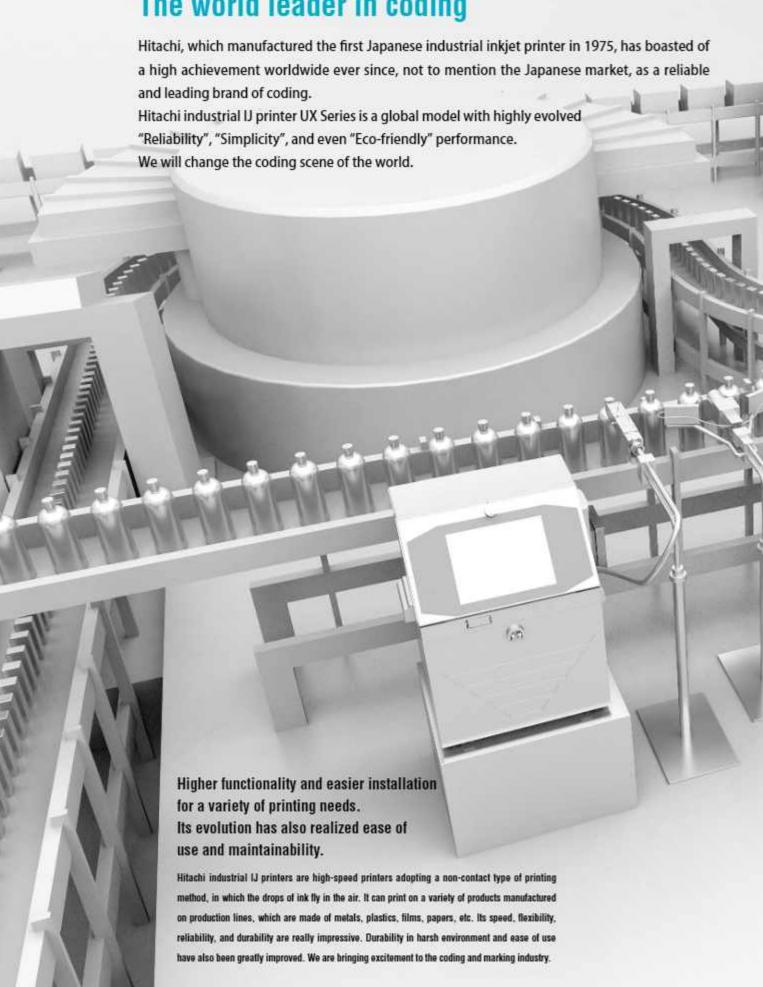
Ink Jet Printer

UX Series



http://www.hitachi-ies.co.jp/english/products/ijp







Feature [1]

ECOLOGY while realizing

Environmentally friendly while realizing a low running cost





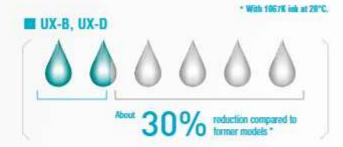
Hitachi original

"Makeup fluid consumption reduction system" has Significantly-reduced running cost.

The ink recovery control and device temperature control provided by the new technology of "Makeup fluid consumption reduction system" suppress the amount of makeup vapored and achieve industry-leading levels of makeup consumption.

Reduction of makeup fluid consumption





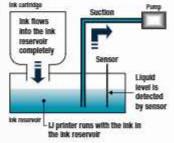


Eco-friendly because the ink and the makeup fluid in the cartridge can be consumed right up to the last drop.

It is not necessary to stop the production line to replace the cartridges.

An eco-system of a simple cartridge-type bottle can be replaced after the ink or makeup fluid is completely consumed and is also easily disposed of.

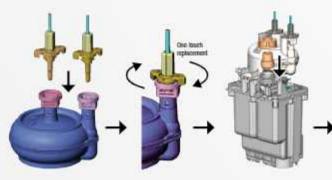






Each part can be replaced separately, and filter replacement is also easy.

The IJ printer is so designed that the minimal part or module can be replaced rather than replacing the whole unit. The ink filter can also be removed and replaced easily without any tools just by rotating the joint. It's a one-touch operation.





RELIABILITY High reliability, and reassured maintenance

and service networks





RFID function to prevent installing the wrong cartridge

IC tags are adopted for the ink and makeup fluid cartridges. Installation of the wrong cartridge can be prevented by simply passing the cartridges over the main unit which is equipped with RFID* (Radio Frequency Identification) function. A message appears on the screen if the wrong cartridge is scanned. * Some geographic areas are excluded.

Hitachi Industrial Equipment Systems Co., Ltd. declares that the IC tag reader is in compliance with the essential requirements and other relevant provisions of the FCC Part15 subpart C, EN 301 489-1/-3, EN 300 330-1/-2.





Designed for harsh environments

The stainless steel cabinet offers IP65 and allows a wash-down with pressured water and industrial detergent, to meet any environment and hygiene requests. The UX Series with IP65 protection is the ideal choice for applications in the meat and dairy sectors.



Automatic cleaning starts by one press of a button and there is no need to wait for its completion since the power turns off automatically when it is finished. Even if the nozzle gets clogged, it can be easily recovered by the nozzle backwash function that is opposite of the normal ink ejection, in which the fluid is sucked through the nozzle.

■Automatic nozzle cleaning





Automatic cleaning starts and then the power turns off automatically when cleaning completes.



■Operation screen of nozzle backwash







Made in Japan

Hitachi industrial IJ printers are manufactured with the know-how and technology that have been accumulated since 1975 in Hitachi City where Hitachi was first founded

After production, all printers have to pass Hitachi's strict quality management before shipment. We provide quality products to our customers worldwide.



Feature [3]

USABILITY

Simple touch panel operation and maintainability





Totally-new user interface!

Intuitive operations with a new readily-understandable screen design is now adopted. Most of the operations can be completed on one screen with a simplified and well-arranged design. Complicated operations are not required to obtain the necessary information thereby improving usability.



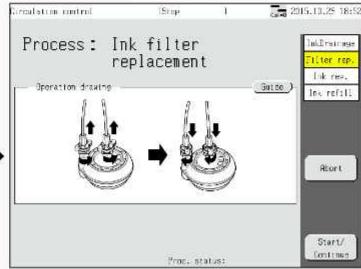


Troubleshooting and maintenance guides using plain illustrations

The necessary operations will be displayed on the screen using illustrations when the ink filter needs replacement or when troubleshooting or maintenance is needed.

Comprehensive illustrations help to maintain the quality.







IC Card* with RFID function

With IC cards, login information and print data can be managed. * Optional

User login

By scanning IC card, only the registered user can log-in and each user operation can also be limited. It prevents any incorrect operation

Print data selection

By scanning IC card, the registered print data can be accurately called up. It prevents the incorrect data from being called up which may happen with manual operation.



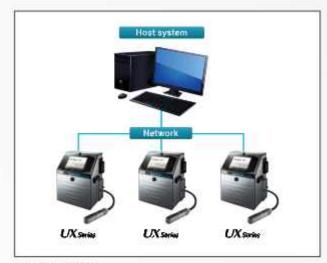




Enhanced network functionality by improving compatibility with the host system

Configuration of an IoT* system can be smoothly realized using simple wiring because of the standard Ethernet feature and open network compatibility. By collectively managing multiple devices from the host system, the information gathering and operations become more efficient.

Internet of Things

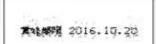


Note: UX-B is excluded.



Ink conditioning management to maintain print quality

By monitoring both the ink viscosity and the ink consumption, the ink viscosity is always kept in the best condition.



實味期限 2016,10,20

Print sample without ink conditioning

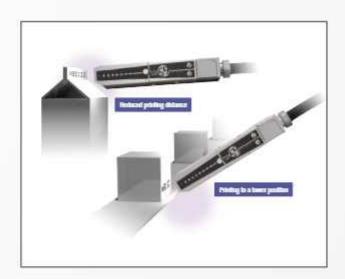
Print sample with ink conditioning



Excellent printhead shape

Tapered shape at the tip of the printhead reduces the distance between the work and the printhead. Printing to the lower position is now made possible. The printhead with anti-corrosion plating keeps working in severe environment.

* Corresponding models: For small characters and high-speed printing



New printing technology,

"6-line print" compatible for a wider variety of needs

6-line print from one printhead is made possible.

Even with multiple print lines, Hitachi original interlaced-print-control system makes each printed character appear clearly.

For single-line high-speed printing, its print quality is improved with the new print control system.

* Corresponding models: For small characters



Standard print samples (Approx. full scale)

■ Small characters (65µm)

Font (Horizontal a W	erica)		UX-B160W		UX-E160W UX-D160W
	5×5	0123456769ABCDEFGH 012345678	012345678 ABCDEFGHI	012345678 ABCDEFGHI JKLMNOPGR	957069 957069 71489 71489 74897 48687 707633 80072 707638 90072 90763
	5×7	0123456789ABCD 0123456	012345678 ABCDEFGHI	012345678 ABCDEFGHI JKLMNOPOR	012345678 ABCOMERGAR JKLMNOPOR JKLWNOY2A
ш	7x10	0123456789 012345	01234567 ABCDEFGH	0123456789 ABCDEFGHI TUUUXYZABO	9012345678 JKLMNOPORS ODEFGHIJKL
UX-B160W	10×12	0123456 01234	789ABCD 56789	Q1234F	567890 GHIJK
	12×16	01234567	89ABC77911 156	オカキクケコ	ABC ®
	18×24 E		56789		
		0123	3456	ABC	I O A 器
	_	01234	45678	9ABCD	EF
	24×32	012	345		
012345ABCD				EF	
	36×48 M	012	2345	5ABC	CD

■ Print samples









■ High-speed printing (55µm)

Font Glortrontal ×Vertical)	UX-D150W
	0123456789ABCDEFGHIJKLMH
Ev7	0123456789ABCDEFGHIJKLMH ABCDEFGHIJKLMNOPORSTUVOX
5.7	0123456789ABCDEFGHIJKLMH ABCDEFGHIJKLMHOPORSTUVUX 0123456789ABCDEFGHIJKLMH
	G123456789ABCDEFGH1JKLNH ABCDEFGH1JKLMNOPORSTUVWX G123456789ABCDEFGH1JKLMN ABCDEFGH1JKLMNOPGRSTUVWX

■ Print samples





■ Larger Small-size characters (100µm)

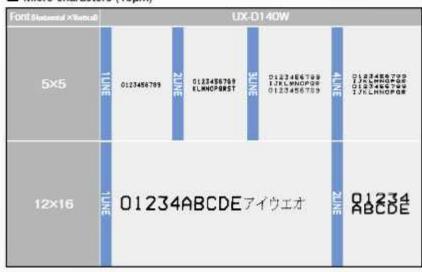
Forst (National a World at)		110W
18×24	01A 01A	01A 01A
24×32	01A 01A	01A 01A

Print samples





■ Micro characters (40µm)



Print samples



Standard Specification

ltem		Small characters				
		UX-B160W	UX-D160W	UX-E160W		
Nozzle size			65µm			
Max print ine number		Up to 3 lines	Up to 6 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		
	4×5	1		· /		
	5×5	/	/	1		
	5×7(8), 9×7(8)	7	,	1		
	7×10	9	,	1		
	11×11	√ (Chinese only)	∠ (Chinese only)	√ (Chinese only)		
ont	10×12			, , , , , , , , , , , , , , , , , , , ,		
larizontal × Vertical)	12×16	3	,	7		
	18×24	Š.	,			
	24 × 32	Ĭ	,	, i		
	30×40			· · · · · ·		
	District Chief	_	,	· · ·		
	35×48	=		~		
huracter height			2 - 10 mm			
Display & input divices		WYS/WYG 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, Wethamese, German, French, Dutch, Italian, Spanish Portuguese, Swedish, Danish, Greek, Russian, Czech, Polish, Arabic, Serbian, Turkish, Hungarian, Bulgarian, Catalan, Romanian, Firmish, Norwegian, Slovenian				
Maximum print rate (Characters per second) (Fost SrS, space 1, 1 line)		Up to 1,148 (Option: Up to 1,281 * i)	Up to 1,148 (Option: Up to 2,563 · i)	Up to 2,296 (Option: Up to 2,563 ។		
Standard characters		Alphanu	meric (A-Z, a-z, 0-9), symbols (27) and space: 1	otal 90		
User patiern		50 patterns each for dot matrix	200 patterns each for dot matrix (50 p	attems for 30×40 and 36×48 fonts)		
Print functions			Calendar, Count, Font mixture, Pasaword			
larcade printing		-	code09, ITF, NW-7, EAN-13, EAN-8, UPC-A, UPC-E, code128/EAN-128, GS-1 DataBar			
20 code printing		-	Data Matrix (Alphabet: 49 characters/Numerals: 98 characters), QR, Micro QR code			
Minage strage capacity	i	150 messages	300 messages [Option: Up to 2,000 messages (Depends on data content)]	2,000 messages (Depends on data content)		
iqui signal		Print target detection Rotary encoder pulse (NPWPNP 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			
Shemet (Mixibus commu	nication)	Section and Security	WEEE802.3 ,	100BASE-T		
sternal memory			USB for user data storage			
rinthrad cable length / a	nyle :	4m (in-line/90 degrees)				
Operating temperature range		0-50°C (1067X lnk)				
perating humidity range			30-90% RH (no condensation)			
Power supply (Automatic voltage selection)		AC100-120/220-240V±10% 50/60Hz 120VA				
минен акрупу учасаная: чисады эколлиц Арриона		CE, UL, OU., C-Tick, FCC, ICES CE, C-Tick				
Timereiono (Width x Dept	n y Heidel	364,364,034,07	400 x 320 x 527 mm	34,00		
mienežina protection		P55	400 X 320 X 327 IIIII	E .		
		11'00				
Approximate weight			27kg			

^{*1} lnk types and temperature are limited.





UX-0160W

UX-E168W

item Kuzie size		High-speed printing	Larger Small-size Characters	Micro Characters UX-0140W 40um			
		UX-D150W	UX-D110W				
		55pm	100µm				
Max print fine number			Up to 4 lines				
Maximum number of print	f characters		Up to 1,000 characters				
20,00	4x5		4				
	5×5		4				
	5×7(8), 9×7(8)	₹					
Ford	7×10	✓					
Forst (Harizontal x Vertical)	ff×ff		=	√ (Chinese only)			
	12×16		2				
	18×24	17	7				
	24 × 32	-	1				
Character height		2-8mm	3-15mm	1-5mm			
Display & input device		WYS/WYG design Display: TFT LCD (10.4" color), backlight provided Input device: louch panel, input sound provided					
Screen language (2 languages selectable))	English, Chinese, Korean, Thai, Vietnamese, German, French, Dutch, Italian, Spanish, Portuguese, Swedish, Danish, Greek, Rassian, Czeci Polish, Arabic, Serbian, Turkish, Hungarian, Bulgarian, Catalan, Romanian, Finnish, Norwegian, Slovenian					
Maximum print rate (Characters per second) (Font SaS, space 1, 1 line)		Up to 3,173	Up to 468	Up to 3,030			
Stanfard characters		Alph	anumeric (A-Z, a-z, 0-9), symbols (27) and space: Total	90			
Dur patien			200 patterns each for dot matrix				
Print functions		Calendar, Count, Fort mixture, Password					
Barcode printing	_	code39, TF, NW-7, EAN-13, EAN-8, UPC-A, UPC-E, code128/EAN-128, GS-1 DataBar					
20 code printing		Data Matrix (Alphabet: 49 characters/Numerals: 98 characters), QR code*2, Micro QR code					
Massage storage capacit	7	.300 messages (Option : Up to 2,000 messages (Depends on data content))					
hput signal		Print target detection, Printing stop, Rotary encoder pulse, Reciprocative printing, Remote control (Run, Stop, High-voltage ON/OFF, Reset), (NPN/PMP 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 commo	mication)	EEEB02.3., 100BASE-T					
External memory		USB for user data sturage					
Printhend cable length / a	ngle	4m (in-line/90 degrees)					
Operating temperature range		0-40°C (1067K ink) 0-35°C (1067K ink)					
Operating burnicity range		30-90% RH (no condensation)					
Power supply (Automatic voltage selection)		AC100-120/220-240V±10% 50/60Hz 120VA					
Арриона		CE, UL, cUL, C-Trick, FCC, ICES					
Cimenaions (Width x Depth x Height)		400 x 320 x 527 mm					
International protection		P65					
Approximate weight		2Na					

Please consult your nearest sales representative when "18×24 fort" or "QR code" is required with UX-0 for High-speed printing.







UX-D140W

ink lineup

Specialty printing is possible with wide array of ink types.

Highly adhesive

Ethanol ink

Metal Paper

Suitable for containers made from PP (polypropylene) or PE, or two-piece can, three-piece can in the industries of food, medicine, cosmetics, etc.



Suitable for applications where MEK-based ink is not acceptable such as food, pharmaceutical and cosmetics.



1072K, 1028K, 1088K, 1114K

Quick-drying

Film

Suitable for tood packaging film and applications where quick-drying is required such as pillow packaging machines.

Timo [s]	2080K	Former model
03	19,12,16	19.12.16
0.5	19.12.16	19.12.16
t.n	19.12.16	19.12.16

Solvent resistant

1087K

Suitable for food packaging and processing in which containers are cleaned by ethanol. This ink is resistant to wiping with ethanol in the sterilization process.

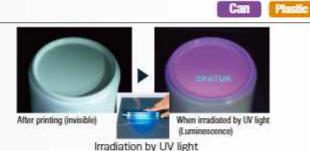
Status	1007K	Former rocated		
Flight after printing	2019.9.18 ors	2019.8.18 0PS		
Weing with attached	v =	V		
After being with alcohol	2019.8.18 ors	-0(508,14) (09		

2086K

Ultraviolet luminescence

Suitable for manufacturing control, etc.

This ink emits blue light when irradiated by UV light.



1092F, 1063F

UV curing

1065K

Electronic parts

Suitable for PCB and electronic parts. Curing by UV light makes the printed ink resistant to oils and solvents.



Color ink

Suitable to identify the work printed.

1085B

10276

1027R

1027R, 1085B, 1095B, 1027G

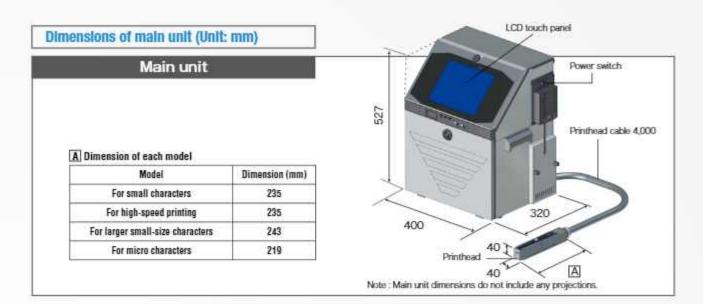
Alkali-soluble	Metal	Paper	Glass 1026K		Transfer-resistant	Plastic	Steel plate 1033K
Rexibility	Plastic	1061K	Condensation-resistant	Film	Glass	1062K	

[&]quot;I Regarding ink for each model, please contact your nearest sales representative.



Download SDS from here

^{*2} For SDS, please download it from our website or contact your nearest sales representative.



Software options

IJ printer features can be extended with a range of software options.

Linking with Vision system

- Inspection item on Vision system changes corresponding to the print item on the IJ printer.
- · Vision system corresponds to the change of LI printer-printed characters.
- · Clocks can be synchronized.
- . Vision system receives the print content output each time when the IJ printer completes printing, which can be set as Vision system's inspection characters.



Barcode reader connection function

Setting print content

Rercode content read by the barcode reader is transmitted as "Character strings" and set as print content.

Calling up print data

Barcode content read by the barcode reader is treated as "Call up code" and the print data corresponding to the "Call up code" will be called up.

■ Special communication functions and External signal functions

Function	Detail	Function	Detail
Print content output	Outputs "Print content" to an external device via sexial communication when the printer receives an "Inquiry about print content" from an external device or right after	Print content switching	Print content, which is sent via communication and stored temporarily, will be printed at the time of external signal input.
	completion of priming.	Output on calendar update	Outputs signal when the print content is updated by the calendar.
Print completion code output	Outputs "Print completion code" to an external device right after completion of printing.	External	Print content of the count digit is set to a reset value at the input of an external signal.
Status output	Outputs IJ printer status to an external device when operation status changes or an "Inquiry about status"	signal reset	Count update at each printing (Mono the result in (Mono) the result in (
	Irom an external device is received. Update count according to the external signal.	Calling up print data	Callo up registered print data by external signal.
External signal count	Count signal Count signal	Output notifying completion of signal imput	When an external signal of the count, reset, print content switching or print data call up is input, signal will be output.

Related products

Vision system

Good partner to improve printing reliability

Instantly checks for print errors of date, serial number, etc. Hitachi original cross check inspection method (Adjustable matching method) is adopted so that the recognition close to the human eyes is made possible.



Europe

Germany, Switzerland, Austria,
France, UK, Italy, Spain, Portugal,
Netherlands, Belgium, Luxembourg,
Sweden, Czech Republic,
Slovak Republic, Ukraine, Greece,
Turkey, Cyprus, Poland, Bulgaria,
Moldova, Serbia, Montenegro,
Hungary, Belarus, Estonia, Latvia,
Lithuania, Romania, Russia,
Macedonia, etc.

7

7 Hitachi Europe GmbH Dusseldorf

China/Taiwan

- 5 Hitachi Industrial Equipment Systems (China) Co., Ltd.
- 6 Taiwan Hitachi Asia Pacific Co., Ltd. Taipei, Taiwan

Africa

Nigeria, Cameroon, Congo, etc.

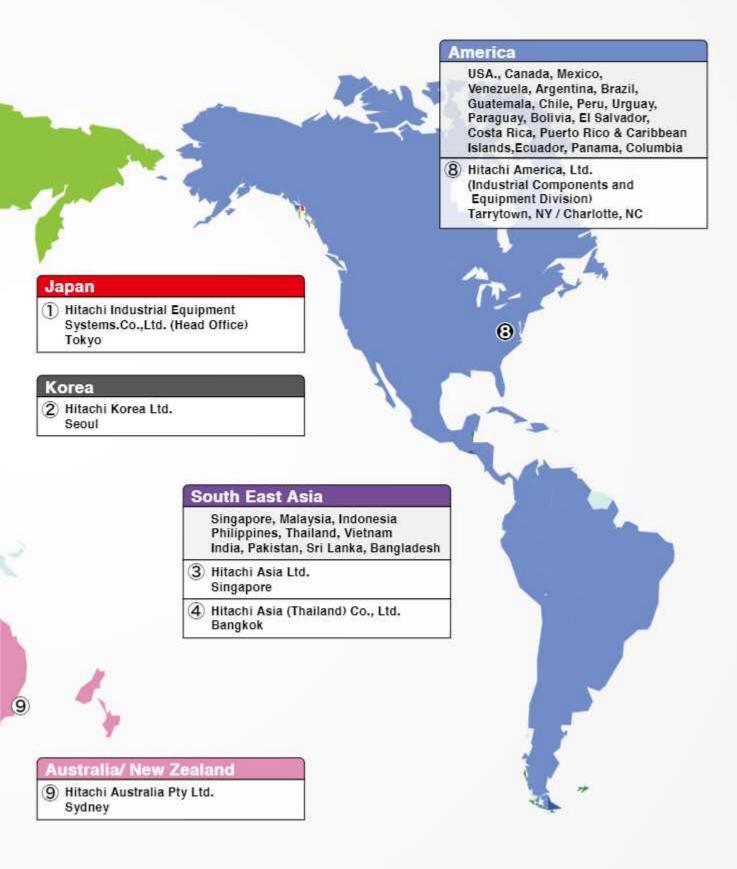
(For other areas, please contact to Hitachi Europe)

Mitachi Europe GmbH Dusseldorf

Egypt/ Middle East

Egypt, Syria, Lebanon, Saudi Arabia UAE, Oman, Qatar, Kuwait, Bahrain

3 Hitachi Asia Ltd. Singapore



Information in this brochure is subject to change without notice. For further information, please contact your nearest sales representative. Registration number: JQA-QMA12087 Registration date: April 1, 2005 The Marking Systems and Holst Systems Division (Taga Division) of Hitachi Industrial Equipment

Systems Co., Ltd. obtained international standard ISO 9001 certification for the quality assurance of

the ink Jet Printer contained in this brochure.

QUALITY SYSTEM