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CT4-LX-HC

Striving for Better Healthcare with Innovative Solutions

satoeurope.com

CT4-LX-HC

A dedicated smart & intuitive 4" label printer for the healthcare sector

With digital transformation technologies reinventing how healthcare providers can meet evolving patient demands, smart solutions that prioritise accuracy, ease of use, and speed to market are key to ensuring patient care remains the top priority.

Hospitals, pharmacies, labs and pharma manufacturers striving to meet the needs of a growing and ageing population require solutions that not only deliver here and now, but also future-proof healthcare solutions going forward. Exceptionally versatile and functional, the CT4-LX-HC is designed to achieve next-level patient and consumer care.

Key Environments

Hospitals

An antimicrobial casing that improves patient safety and limits the spread of HAI

Pathogens often proliferate in hospitals, leading to high patient morbidity when transmitted. In response, recent technological advancements, like antimicrobial coatings on frequently touched surfaces, have proven effective in reducing hospital-acquired infections (HAI) by minimising the risk of post-cleaning recontamination. The CT4-LX-HC printer comes complete with an anti-microbial casing, making it suitable for disinfectant wipe-downs, which helps reduce the risk of infections and recontamination spread in hospital environments.



Pharmacies

Cost-effective labelling for patient prescriptions

Stringent medical legislation underlines how crucial it is for pharmacists to inform patients correctly via prescription labels, including safety and storage instructions.
The CT4-LX-HC expedites patient workflows for accurate pharmacy labelling with its one-touch media profile recall function. Simply register the label type as a 'media profile' by entering your preferred print method, speed and density. The printer will then leverage its onboard intelligence to quickly verify all data for cost-effective printing.



SATO AEP Application Enabled Printing

Simplify label printing and reduce costs with onboard printing intelligence

SOS SATO Online Services

Minimise downtime and stabilise operations with proactive and preventative maintenance

SOTI - Printer Management Made Easy

Helps businesses reduce the cost, complexity and downtime of business-critical mobile and IoT operations

PDF Direct Print

Directly print PDF data generated via other systems, reducing errors and any associated loss of time and resources



Labs

Rapid, accurate and effective labelling for specimen testing

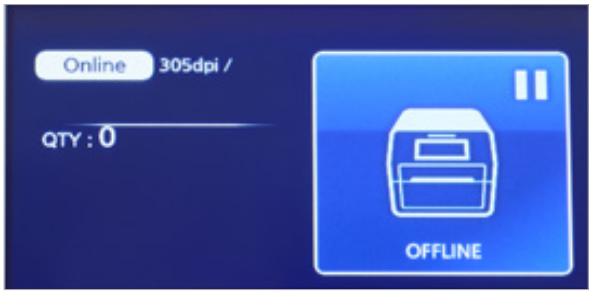
Accurate laboratory labelling is crucial to avoid patient misdiagnosis, testing delays or delivering incorrect treatment dosages. With the CT4-LX-HC, users can enjoy label printing speeds of up to 8 inches per second and ultra-accurate data with onboard intelligence from SATO AEP, which autonomously verifies labels against the printer's database before printing.



Pharmaceutical Manufacturers

Accelerating the speed to market with fast and precise product labelling

Amid ever-changing industry regulations, speed to market is crucial for pharmaceutical manufacturers to remain compliant with the latest guidance. And needless to say, safe, efficient and accurate labelling is non-negotiable. Designed for fast-paced environments, the CT4-LX-HC is a highly functional and user-friendly solution. With a 4.3-inch colour touchscreen and a single-touch media profile recall feature, it paves the way for faster, more accurate labelling with fewer user errors than ever before.



Key Features

Improved Safety



Hassle-free cleaning when time matters

The CT4-LX-HC frees up valuable time for hospital staff to improve patient care by eliminating the need for time-consuming deep cleaning. The antimicrobial casing is easy to disinfect and clean by wiping down, allowing staff to limit the spread of hospital-acquired infections and reducing the risk of pathogen transmission.



Functional Space-Saving Design

The CT4-LX-HC has a smaller installation footprint than other 4-inch models on the market

This is thanks to its compact dimensions and recessed ports on the printer's rear. For users, printer installation is more convenient due to its easily accessible cover, which opens by pushing a button on the front of the device.



Easy media & ribbon set up

The top cover opens extra-wide for easier label and ribbon loading. Similarly, the rear cover is designed to allow effortless loading of media (e.g. USB flash drives) for a stress-free setup when adding or replacing devices.





Fanfold media loading from the rear

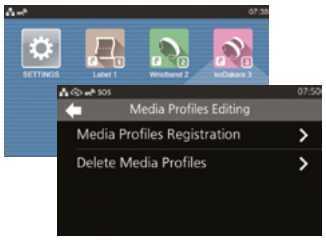


Wide opening of top cover for media loading

Efficient, Cost-effective

One-touch media profile recall & auto-clone

Register settings of commonly printed label types as Media Profiles to appear on the home screen for easy selection going forward. With the auto-clone feature, operators can also back up or duplicate printer settings via a USB flash drive.



Media profile selection and editing

Eco-friendly printing with zero label wastage

The label waste-prevention function auto-align the first label, allowing the user to print from the first label onwards.



Print from first label onwards

User-Friendly Operation

An intuitive user experience with a 4.3-inch colour touch screen

A full-colour display and easily visible icons make menus simple to navigate. Each menu is available in 31 languages, making it easy for companies with multilingual users to operate by simply reconfiguring the language settings.



Onboard guidance videos

Perfect in an era of YouTube solutions, the CT4-LX-HC comes with onboard guidance videos as standard. All videos are easily accessible when the printer encounters an error, for easy troubleshooting and minimal downtime.



Guidance video button on red error screen



Guidance video shows step-by-step label loading procedure

Ultimate flexibility

Enhanced connectivity

Whatever your peripherals, the multiple interfaces and usability of the CT4-LX-HC make it a breeze to connect to wide-ranging devices, including LAN, USB, NFC and WiFi (optional).

Wi Fi CERTIFIED · Made for iPhone | iPad | iPod



Suitable for global implementation

The CT4-LX-HC comes with 31 display languages and 47 print languages, making it ideal for operation across geographic regions. With support for Unicode™, this model is also designed to print in multiple languages.

Optional accessories

The CT4-LX-HC comes with optional accessories like a guillotine cutter and a real-time clock for even greater flexibility.



Cutter model



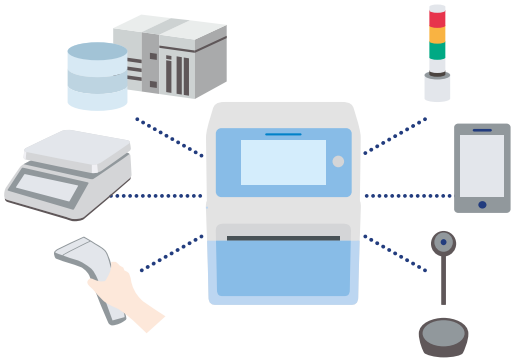
Tear-Off mode



SATO Application Enabled Printing

SATO AEP Application Enabled Printing

AEP is a powerful on-board intelligence which enables customisation of printer operations to significantly simplify labelling processes and reduce business costs.



Easy connectivity to peripheral devices

With easy connectivity of 1D & 2D barcode readers, indicator lights, web cameras and weight scales directly to CT4-LX-HC via Bluetooth or USB, user can perform a wider scope of label printing applications.

VIDEO

Application Examples:

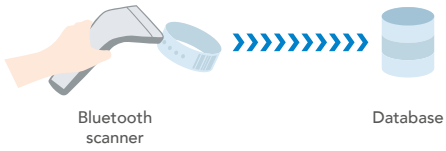
Admission / Entrance ticket printing

Visitor registers for an event online and receives a QR code. This QR code is scanned at the entrance and the organiser issues a ticket, printed by the CT4-LX-HC.



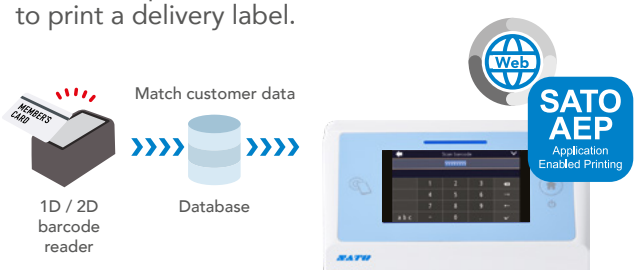
Bluetooth-powered wristband registration

By connecting seamlessly to a Bluetooth scanner, the CT4-LX-HC enables healthcare providers to register and monitor patients' location, medication and treatment status when wearing wristbands it has issued.



Delivery label printing

To self-arrange delivery service for items purchased at a retail store, the customer scans their membership card for the CT4-LX-HC to print a delivery label.



Label printing with operational guidance

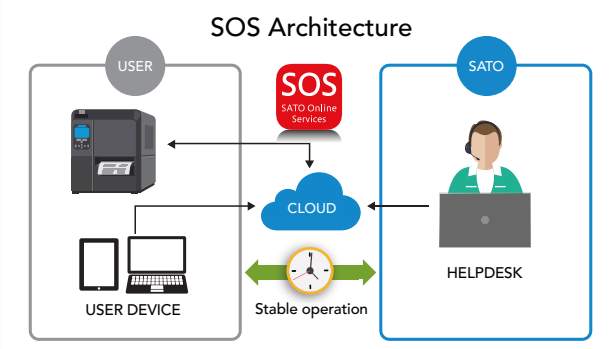
Enhance operation speed and accuracy by displaying instructions on the CT4-LX-HC colour screen to guide the user to apply a printed label on the correct area of the box.



IoT Services for Smart Print Management

Cloud-based IoT solution to keep your operations running & visible

SOS is a service that makes use of IoT to monitor SATO printers at customer sites 24/7 and enable proactive servicing before issues become critical.



- Minimise downtime through proactive preventative maintenance
- Keep all printers visible on dashboard to achieve efficiency
- Use SOS to manage all your IT assets on site

CUT PRINTER DOWNTIME BY **86%**

*Based on survey conducted by SATO in Japan

VIDEO

Cloud-based data management service

SATO App Storage* solves customer challenges with managing label printing applications to achieve higher productivity. Enjoy peace of mind and efficiency with up-to-date data anytime, anywhere.



- Keep label data accurate for printing
- Control users with different authority levels
- Track downloads of label printing applications and more!

* For availability in your market, please contact your local SATO office.

VIDEO

RFID



Bring efficiency and productivity to the next level with CT4-LX RFID model

RFID models are available for users across various sectors to boost the efficiency of their operations and productivity of their workers.

UHF RFID model : Supports ISO/IEC 18000-63
HF RFID model : Supports ISO/IEC 15693, ISO/IEC 14443 Type A/FeliCa Lite



* For availability in your market, please contact your local SATO office.

Achieve greater stability and time savings in RFID printing and encoding with new SATO RF Analyze function

- CT4-LX RFID model can read and encode RFID labels in UHF and HF bands.
- In order to write labels stably with a printer, individual configuration settings are typically required for each type of RFID label.
- Now with the CT4-LX RFID, SATO RF Analyze enables the printer to read and encode UHF RFID labels automatically for fast, stable encoding.

CT4-LX-HC Technical Specification

PRINTING SPECIFICATION				
Printing Method			Direct Thermal / Thermal Transfer	
Print Mode			Continuous, Tear-off, Cutter	
Print Resolution			8 dots/mm (203dpi)	12 dots/mm (305dpi)
Max. Print Speed			8ips (203mm/s)	6ips (152mm/s)
Max. Print Area	Width		104mm (4.1")	
	Length		2500mm (98.4")	1500mm (59.1")
Processor			32-bit Processor 1GHz	
Printer Memory			4GB ROM, 1GB RAM	
CONSUMABLE SPECIFICATION (Recommended to use consumables manufactured or supplied by SATO)				
Sensor Type			I-mark Sensor (Reflective), Label Gap Sensor (Transmissive)	
Media Type			Roll or fan-fold die cut labels, plain paper face stock, synthetics and continuous stock, center alligned, face-in and face-out.	
Media Thickness			0.08 - 0.19 mm (80 – 190 µm) (0,031" - 0,075")	
Label Shape	Roll Diameter		Max. ø 128mm (5.0") on 40mm (1.5") core; Max. ø 115mm (4.5")	
	Wind Direction		Face Out / Face In	
Label Size (Without Liner)	Continuous	Width	22 – 115mm (0.87" – 4.53"), Including Liner 25 – 118mm (0.98" – 4.65")	
		Length	7 – 397mm (0.28" – 15.63"), Including Liner 10 – 400mm (0.39" – 15.75")	
	Tear-Off	Width	22 – 115mm (0.87"– 4.53"), Including Liner 25 – 118mm (0.98" – 4.65")	
		Length	22 – 397mm (0.87" – 15.63"), Including Liner 25 – 400mm (0.98" – 15.75")	
	Cutter	Width	22 – 115mm (0.87" – 4.53"), Including Liner 25 – 118mm (0.98" – 4.65")	
		Length	20 – 397 mm (0.87" – 15.63"), Including Liner 23 – 400mm (0.91" – 15.75")	
Ribbon	Size		Max. Length: 100m (3937"), Max. Roll Diameter: 39mm (1.54"), Ribbon Width: 45 – 111 mm (1.77" – 4.37"), Core Diameter: 12.7mm (0.5"), Wind Direction: Face Out	
FONTS / SYMBOLOGIES				
Internal Fonts	Standard Bitmap		U, S, M, WB, WL, XS, XU, XM, XB, XL, OCR-A, OCR-B, Japanese Kanji, Simplified/Traditional Chinese, Korean	
	Scalable Fonts		40 Scalable Fonts, Multi-National Language Support (47 Languages), Single and Double Byte Fonts (Korean, Chinese, Japanese)	
	Encoding		Major Latin and Pan-European Code Pages (WGL4 Compatible), GB18030 (Simplified), KSX1001 (Korean), BIG5 (Traditional), JIS, SHIFTJIS, UTF- 8 / UTF-16BE, Unicode	
Barcode	Linear		UPC-A, UPC-E, Code 39, Code 93, Code 128, GS1-128 (UCC / EAN128), CODABAR (NW-7), ITF, Industrial 2 of 5, NEC Matrix 2 of 5, Matrix 2 of 5, MSI, Customer Barcode, POSTNET, UPC Add-on Code, BOOKLAND, USPS Code, GS1-DataBar Omnidirectional, GS1 DataBar Truncated, GS1 DataBar Stacked , GS1 DataBar Stacked Omnidirectional, GS1 DataBar Limited, GS1 DataBar Expanded, GS1 DataBar Expanded Stacked	
	2D Symbologies		PDF417 Including Micro PDF, Maxi Code, GS1 Data Matrix, Datamatrix (ECC200), QR Code including Micro QR , Aztec code	
	Composite Symbologies		EAN-8/13 Composite, UPC-A/E Composite, GS1 DataBar (Composite, Truncated Composite, Stacked Composite, Expanded Stacked Composite, Expanded Composite, Stacked Omnidirectional Composite, Limited Composite), GS1-128 Composite, GS1 DataBar Limited Composite (CC-A / CC-B), GS1-128 Composite (CC-A / CC-B / CC-C)	
Print Direction			Character Data and Barcode Rotation: 0°, 90°, 180°, 270°	
User Downloadable Fonts, Graphics or Formats			Max. 1 GB. Expandable memory (USB dongle) 4 GB.	
INTERFACE CHARACTERISTICS AND INTEGRATION				
Interfaces	Standard Interfaces		USB 2.0 High Speed (Type A x 2 / B x 1), LAN (10BASE-T / 100BASE-TX / 1000BASE-T), NFC,	
	Optional Interfaces		RTC, WLAN (WiFi certified, IEEE802.11a/b/g/n/ac), DHCP Option 81 and Bluetooth Ver 4.1	
Display Panel			4.3 TFT Full Colour (480 x 272), Resistive Touch Display	
Large Status LED			Blue / Red	
Multi-national Language Support			47 Languages and Scalable Print Fonts, 31 Languages for LCD Menu	
Remote Maintainence			SNMP Ver. 3, HTTPs	
Supported Printer Protocols			SBPL (SATO Barcode Printer Language), SZPL, SDPL, SIPL, STCL, SEPL	
OPERATING CHARACTERISTICS				
Power Requirements			Input: AC100V~AC240V±10%, 50/60 Hz, (AC adapter) Output: DC24V ±5.0% 2.7A	
Environment	Operating		0 – 40 °C / 30 –80 % RH (Non Condensing)	
	Storage		-10 – 60 °C / 15 – 90 % RH (Non Condensing)	
Dimensions			Width 178 mm x Depth 238 mm x Height 214 mm (7.0" x 9.4" x 8.42")	
Weight			3,4kg (7.5 lbs) (TT Model)	
MISCELLANEOUS				
Standards & Agency Approvals			IEC 60950, CE Marking, EN 60950-1, EN55032, EN 55024, RE, Nemko-GS , cMETus, UL60950-1/CSA C22.2 No. 60950-1, FCC 15 (SUB B, C, E), ICES-003, BIS, RCM, CCC, SRRC, KC, SIRIM, IMDA, PTQC, NBTC, DGPT, BSMI, NCC, NTC, EAC, IRAM, ENACOM, ANATEL, NOM, IFT	
Functions – Useful features			Label Waste Prevention, Media Profile, Auto Clone, SATO Online Services (SOS), 21 Preset Printer Maintenance Videos, 1GB Available Space for Storage of Customised Videos (Sound Playable with Onboard Speaker)	
Functions – Self Diagnosis Checking			Thermal Head Check, Label End Sensor, Ribbon Near-End and End Sensor, Test Print, Cover Open Detection	
OPTIONS				
Accessories			Cutter, Real-Time Clock, Wireless LAN + Bluetooth Kit	

Bluetooth Wi Fi CERTIFIED RoHS COMPLIANT

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