


PRINTING SPECIFICATION				
Model Name	CL4NX Plus			
Printing Method	Direct Thermal/ Thermal transfer			
Print Mode	Continuous			
Print Resolution	12dots/mm(305dpi)	24dots/mm(609dpi)		
Max. Print Area	14ips(355mm/sec)	6ips(152mm/sec)		
Max. Printing Area	Width, mm (inches)	104mm(4.09")		
	Length, mm (inches)	1500mm(59.05")		
Processor	Dual CPU & Dual OS: CPU1: 800MHz for Linux OS, CPU2: 800MHz for ITRON OS			
Printer Memory	CPU1: 2GB ROM, 256MB RAM, CPU2: 4MB ROM, 64MB RAM			
OPERATING CHARACTERISTICS				
Power Requirements	Universal power supply: AC100V-AC240V±10%,50/60 Hz, Energy Star			
Environment	Operating	0-40°C/30-80% RH(without condensation)		
	Operating Linerless	5-35°C/30-75% RH(without condensation)		
	Storage	-20-60°C/30-90% RH(without condensation)		
Dimensions	271mm(10.67")x457mm(18.00")x321mm(12.64")			
Weight	15.1Kg(33.28 lbs)			
Display Panel	TFT Full Color LCD,3.5"(320x240 RGB)			
Other Parameters				
Standards & Certifications	IEC 60950, CE Marking, EN 60950-1, EN 55032 Class A, EN 55024,RE, NEMKO-GS, cMETus, UL60950-1/CSA C22.2 No. 60950-1, FCC 15 (SUB B, C), ICES-003, NMB-003, BIS, RCM, CCC, SR,RC, KC,CNC, SIRIM, IMDA, PTQC, NBTC			
Functions - Useful features	Micro label printing, AEP, SOS, 18 User Guidance Videos on LCD, Space for Customized Videos, LCD display with 31 languages, Energy Saving, large LCD screen, Multi-Port Plug-and-Play, USB storage, Status Return, Alarm Sound			
Function - Self Diagnosis Checking	Print head opening detection, Paper end detection, Ribbon end detection, Test print, Head lift detection.			
Detection performance ^{※1}				
Software Version	Standard Edition	Professional Edition	AFS Special Edition	UDI Special Edition
Version Features	Easy to use	Enhanced configuration, third-party interface	Color anti-counterfeiting	UDI consistency test
Number of detection areas	1 position + 14 custom areas			
Character recognition (OCR)	Language	English uppercase, English lowercase, numbers, some symbols, some Chinese characters.		
	Font	Learnable		
	Size	6 pt or more		
Template comparison	Single area height 6-40mm, minimum detection 5 pixels			
Barcode reading type	Code128, code39, QRcode, Datamatrix, etc. (UDI special edition support, GS1-128, GS1-Datamatrix)			
Minimum barcode size that can be read	1D:0.126mm, 2D:0.242mm			
Barcode detection	Readable	Readable, 1D code defect	Readable	Readable, one-dimensional and two-dimensional code level judgment
Function	Database comparison, fixed content comparison, serial number comparison, duplicate code detection, time comparison			
Optional				
Accessories	Visual industrial control (Intel 6 generation core i5 memory 8G dual network ports), alarm light, rewinder			

※1The test performance will be continuously updated. Please consult sales for details. It is subject to change without further notice.


After-sales Guarantee **Reliable after-sales support system**
 ☎ +84 (28) 3910-1350

For any issues with SATO products, please contact us. We will quickly dispatch SATO engineers or authorized technicians to assist you. Regular inspections and warranty services are also available to ensure the proper functioning of your systems.



Authentic Product **Ensure the system operates well**

SATO designs and manufactures a range of labels, ribbons, tags, and consumables, delivering high-quality products tailored to specific purposes and environments.



SATO Offices in Vietnam



SATO Label Printing Quality Inspection System


Label Checking System

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INDUSTRY APPLICATIONS



Medical

✓ UDI Compliance Verification ※1

✓ Barcode level detection ※2

※1 The manual reading matches the barcode content.

※2 One-dimensional code is in accordance with ISO/IEC 15416 standard or national standard GB/T 18348;

DM code is in accordance with ISO/IEC 15415 standard or national standard GB/T 23704.

The quality level of the barcode is expressed in numbers, 4 represents the best and 0 represents the worst.



Manufacturing

✓ Continuous number inspection

✓ Barcode readability inspection



Apparel

✓ Ribbon wrinkle detection

✓ Print head broken needle detection



Automotive

✓ QR code readable

✓ Text OCR



Food

✓ Text OCR

✓ Barcode readable



Key Features



Video



✓ Printing speed is unaffected

✓ Use additional space

✓ Detection while printing:

Readability of barcodes and QR codes; visual integrity, including missing text; consistency between manual readings and barcode content.

Barcode reading

Read multiple barcodes simultaneously to check for defect and compare with database

Template comparison

Suitable for defect comparison of fixed content including text and graphics

OCR function

Reading of numbers, letters and Chinese characters; comparison of date serial number database

RFID comparison

Comparison of the consistency between the printed content on the label and the internal data of the RFID

System Configuration

Barcode Printer



- ±0.7mm printing accuracy
- Printing speed up to 14ips
- Upgraded with micro label printing mode

Label Ribbon



- High-quality original consumables
- Tested for label ribbon matching, reduces printer wear
- Provides a variety of special consumables such as scratch-resistant, heat-resistant, super durable

Printing Software



Support NiceLabel, Bartender, Multi LABELIST V5, SLPC and other mainstream software

Labeling Machine



Non-standard customization can be performed on-site as needed for different applications.

Visual Industrial Control



Speed up detection and enhance detection stability

CLNX Plus Series Value-Added Features



SATO Online Services IoT Preventive Maintenance

SOS is a service that uses IoT to monitor SATO printers at customer sites 24 hours a day. By continuously monitoring the printer status, SOS notifies operators when consumable parts need to be replaced and provides timely and effective problem solutions, greatly reducing downtime.



SATO AEP (Standalone Printing) Support custom printing.

AEP is a robust onboard printing intelligence that enables direct connections between the printer and external devices like barcode scanners, electronic scales, and keyboards via Bluetooth or USB, streamlining the printing process. With AEP, computers are unnecessary, as the printer can connect directly to the database for printing, lowering equipment investment and maintenance costs.

For more information and function introduction, please contact your local SATO sales office.