



Industrial Thermal Printer

CL4NX

www.satoeurope.com

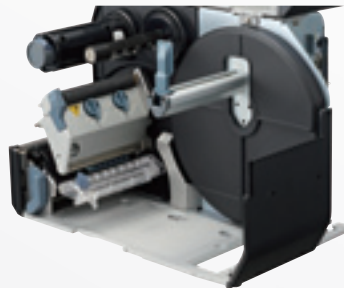
Run All-in-One functions anywhere at any time.

SATO, Beyond Expectations

SATO's First Truly UNIVERSAL Industrial Label Printer
Engineered for the Most Demanding Printing Needs.

Durable Design

- ▶ Metal Construction, Heavy Aluminum Durability
 - Built strong to withstand the demands of industrial printing applications and environments
 - Die-Cast Aluminum print head mechanism provides consistent label and ribbon movement, virtually eliminating label shift or ribbon wrinkling
 - Bass plate openings allow for securing printer to raised and uneven platforms and for under counter media feeding



Plug-and-Play



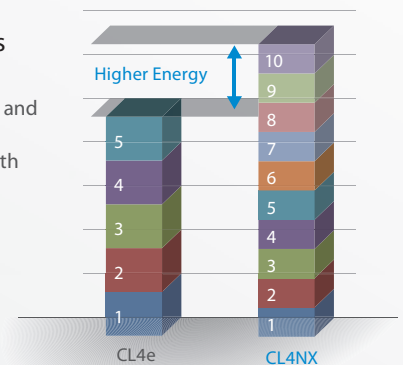
Support a Variety of Media Types

- ▶ Wound In or Out; Ribbon and Label
 - New mechanism allows to use a wide variety of media prepared for other popular industrial barcode printer
 - No additional accessories or setting change are required



Superior Print Accuracy and Quality

- ▶ New Darkness Range for Higher Energy Settings
 - New setting allow users to
 - * Print in most any environment and surrounding temperature
 - * Print at Higher Print Speeds with qualified medias



Space Saving Design

- ▶ Bi-fold Type Side Cover
 - Reduces overall area required for operation by 54%
 - Allow CL4NX to place closer to objects in above table applications and higher to operator level in under table applications



LTDS (Label Tension Damper System)

- Innovative LTDS allow users for the use of 10" O.D. label (optional setting required for 10" O.D. label roll)
- LTDS contributes to a controlled back-feed tension for demand label applications, providing a proper label track



Simple-to-Operate

All-in-One

User Friendly Operation

▶ Easy to Use

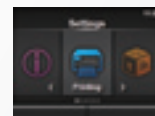
- User friendly Icon & multi national language support on Full Color Display
- Easy to access Power-on Button
- Password protection to avoid unintended setting reset

▶ Full Color Interactive LCD Display

- Tens of videos offer valuable information on the operation of the CL4NX and provides instructional value to newer operators
- When error occurs, not only comprehensive messages are shown in multi-national language, but video can show you how to recover from the error



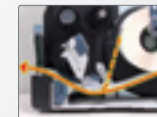
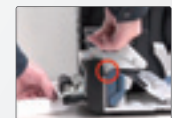
On-line



Setting



Error



Multiple On-board Interfaces Standards

▶ LAN Standard, No Upcharge

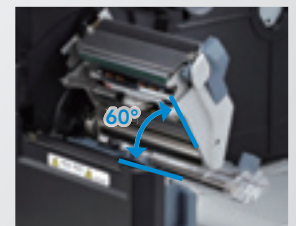
- New design allows for multiple communication port use on a single printer, and no need to purchase additional LAN interface board
- Support IPv6
- Simplifies the installation in legacy and new applications and the selection of a printer model
- USB port (front and rear) for downloading additional fonts, latest firmware, emulations, and copying printer setting



Easy Set-up and Maintenance

▶ Industries Best Design in High Lift PH Mechanism

- Best in class print head opening of 60 degrees for easy access, faster maintenance and quick media loading
- Tool-less print head and platen roller system makes replacements easy and quick



Standard Emulations Onboard

- Auto detect function allow users to Plug-and-Play operation when switching from SATO legacy models or other popular industrial barcode printers
- Support SBPL, SZPL, STCL, SDPL and SIPL

Multi-National Language Support

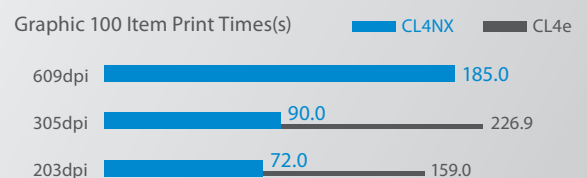
▶ 30 Display & 47 Print Languages Support

- All major world languages covered
- Remote maintenance capabilities allow users to control and monitor printers anywhere in the world regardless language setting

High Speed Processing and Throughput

▶ Industry Leading Throughput

- 100MB user accessible memory allows for storage of formats, large graphics, custom fonts and other downloads allowing for faster throughput



TECHNICAL INFORMATION

PRINTING SPECIFICATION		CL4NX		
Printing Method		Direct Thermal / Thermal Transfer		
Print Resolution		8 dots / mm (203 dpi)	12 dots / mm (305 dpi)	24 dots / mm (609 dpi)
Max. Print Speed		10 ips (254 mm/sec)	8 ips (203 mm/sec)	6ips (152 mm/sec)
Max. Print Area	Width, mm (inch)	104mm(4.1")		
	Length, mm (inch)	2500mm(98.43")	1500mm(59.1")	400mm(15.7")
Processor		Dual CPU & Dual OS: CPU 1: 2GB ROM, 256MB RAM for Linux OS, CPU 2: 4MB ROM, 64 MB RAM for ITRON OS		
Printer Memory		2GB ROM, 256MB RAM		

CONSUMABLES SPECIFICATION (Recommended to use printer supplies manufactured or certified 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		
Media Thickness		0.06 - 0.26mm (0.002" to 0.01")		
Label Shape	Diameter	Maximum 220mm (8.6") on 76mm (3") internal core diameter Core diameter: Ø 76mm (3.0"), Ø 101mm (4.0")		
	Wind Direction	Face In / Face Out. No Setting Change Required		
Label Size	Continuous	Width	22 to 128mm (0.87" to 5.0")	22 to 128mm (0.87" to 5.0")
		Length	6 to 2497mm (0.24" to 98.3")	6 to 1497mm (0.24" to 58.9")
	Tear-Off	Width	22 to 128mm (0.87" to 5.0")	22 to 128mm (0.87" to 5.0")
		Length	17 to 2497mm (0.24" to 98.3")	17 to 1497mm (0.24" to 58.9")
	Cutter	Width	22 to 128mm (0.87" to 5.0")	22 to 128mm (0.87" to 5.0")
		Length	17 to 2497mm (0.24" to 98.3")	17 to 1497mm (0.24" to 58.9")
	Dispenser	Width	22 to 128mm (0.87" to 5.0")	22 to 128mm (0.87" to 5.0")
		Length	27 to 397mm (0.67" to 15.6")	27 to 397mm (0.67" to 15.6")
	Linerless	Width	32 to 128mm (1.3" to 5.0")	32 to 128mm (1.3" to 5.0")
		Length	30 to 120mm (1.2" to 4.9")	30 to 120mm (1.2" to 4.9")
Ribbon	Size	Max. Length: 600m(1969') Max. Length will be 450m (1476') when ribbon width is 39.5mm. Max. Roll Diameter: 90mm(3.5"), Ribbon width : 39.5mm(1.55") to 128mm(5.04")		
	Other	Core diameter: Ø 25.4mm (1"), Wind direction : Face In/ Face Out, No Setting Change Required		

FONTS / SYMBOLOGIES

Internal Fonts	Standard Bitmap	U, S, M, WB, WL, XS, XU, XM, XB, XL, OCR-A, OCR-B
	TTF Fonts	CG Times, CG Triumvirate, Sato Gamma (Bold, Italic, Bold Italic), Sato Vica (Bold, Italic, Bold Italic), Sato Folio Bold, Sato Vica Light Condensed, Sato Alpha Bold Condensed, Sato 0 Bold Condensed, Sato Futura Medium Condensed, Sato OCR-B, Sato Symbol Set, Sato Wingbats, Sato Sans(Bold), Sato Serif(Bold), HGMLAG, Sato Beta Bold Italic, Helvetica, Universal, Universal Condensed Bold, AR Hebe Sans, AR SilverS erif, AR Hebe Sans Farsi, Other Asian True Type fonts, Optional Downloaded TrueType fonts, scalable from 8 to 72 points
	Encoding	UPC-A/E, JAN/EAN-8/13, Code 39, Code 128, GS1-128 (UCC /EAN128), Codabar (NW-7), Industrial 2 of 5, Bookland
Barcode	Linear	Code 39, Code 93, Code 128, CODABAR (NW7), EAN8/13, GS1-DatabarTM, GS1-128(UCC/EAN128), Interleaved 2/5, Industrial 2/5, JAN8/13, Matrix 2/5, MS1, Bookland, PostnetTM, UPC-A/E
	2D Symbolologies	PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, QR Code, Micro QR Code and Composite Symbolologies
Print Direction		Barcode rotation: 0°, 90°, 180°, 270°
User Downloadable Fonts, Graphics or Formats		Maximum 100MB

INTERFACE CHARACTERISTICS AND INTEGRATION

Interfaces	RS232	RS232C Standard (XON/XOFF, RTS/CTS)
	USB	USB Device type B connector 2.0 High Speed, USB Device type A (2 ports)
	LAN	Ethernet 10/100 Mbps / DHCP(ipv4 / ipv6), TCP/IP
	Bluetooth	Version 3.0 + EDR Class 2
	EXT	Amphenol D-Sub 14pin female
Optional Interface	Wireless LAN (WiFi and CCX Certified), IEEE 802.11a/b/g/n, Dual band (2.4GHz, 5GHz)	
Remote Maintenance	SNMP Ver. 3, HTTPs	
Supported printer protocols	Standard: SBPL (SATO Barcode Printer Language) Emulation Language: Auto detect - SZPL, SDPL,SIPL or STCL	

OPERATING CHARACTERISTICS

Power Requirements		AC100V~AC240V±10%, 50/60 Hz, Auto-ranging Power Supply, Energy Star – Compliant,
Dimensions		0 – 40 °C / 30 – 80 % RH (without condensation)
Weight		-20 – 60 °C / 30 – 90 % RH (without condensation)
Environment	Operating	271 mm (10.6") x 457mm (17.9") x 321mm (12.6")
	Storage	15Kg (33 lbs)
Display Panel		TFT Full Color LCD, 3.5"(320 (RGB) *240)

MISCELLANEOUS

Certifications	CE, UL, TUV, cMETus (USA/Canada), CCC(China), KC (Korea), C-Tick (New Zealand/Australia), S-Mark (Argentina), ROHS compliant
Regulatory Approvals	Noise: Emission –EN55022 Class A, EN55024
Functions – Useful features	Guidance Video on LCD, Multi Language support LCD message (30 Languages), Energy Saving, Large Status LED, Multiple Interfaces-Auto-switching, USB Memory for data copy, Status return, Alarm Sound
Functions – Self Diagnosis Checking	Thermal head check, Paper end detection, Ribbon end detection, Test print, Head Lift detection

OPTIONS

Accessories	Cutter, Dispenser with Internal Backing Paper Rewinder, Linerless kit, Real-Time Clock, UHF RFID, SATO Label Gallery™
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RFID SPECIFICATION (optional)

UHF	Standard	ISO18000-6 Type C
	Frequency	868 – 920MHz
	Protocols	EPC Gen 2 Class 1, NXP
	RFID Features	Fully integrated UHF RFID Reader / Encoder Module, RFID calibration function for optimal transponder performance, Void marking of damaged or unreadable transponders, RFID data verification after programming, Multiple RFID power settings allow users to use individual Transponder sizes, DIP (Direct Inlay Printing) allows to use short pitch labels down 4 mm, PWP function allows flexible inlay positions, TID reading and printing as text and barcode
	Gen2 Memory	Expanded EPC (496bit), User Memory (512bit), TID (96bit), Access password, Kill password, Lock



For further information on supplies, printers, maintenance and software please contact:

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