SATO CL4NX Series Printer Product Guide

Beyond Expectations

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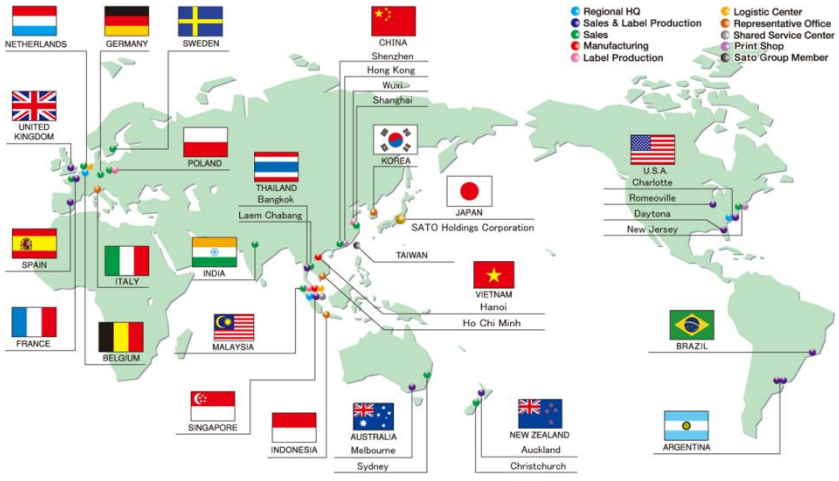
ABOUT SATO CORPORATION

SATO Corporation was founded in Japan in 1940 as a manufacturer of packaging machinery. In 1962 SATO invented the world's first hand-held labeler and began operations as an international supplier of labeling equipment. Today SATO has a global presence providing products to over 90 countries worldwide with operations in Argentina, Australia, Brazil, Belgium, China, France, Germany, India, Indonesia, Italy, Japan, Korea, Malaysia, Netherlands, New Zealand, Poland, Singapore, Spain, Sweden, Thailand, Vietnam, United Kingdom, and the United States.

In 1979 SATO developed the world's first thermal transfer barcode printer, Model 2311. Since that time SATO has continued to be an innovator of thermal printing technologies. Barcodes have proven to be an indispensable medium for recording information to satisfy all operational requirements, including high speed capture, data accuracy, and low costs. Barcodes use has proliferated in a variety business sectors and has become a ubiquitous technology in our everyday life. Recognizing this, SATO has created barcode solutions to meet the needs of the various markets and applications. Continuing the tradition of "Ceaseless Creativity" SATO has reinvented the popular CL legacy printer with the new CL4NX series, opening the doors to the next generation of AIDC products.

More information on SATO and our products can be found at www.satoworldwide.com



1 SATO CL4NX SERIES INTRODUCTION

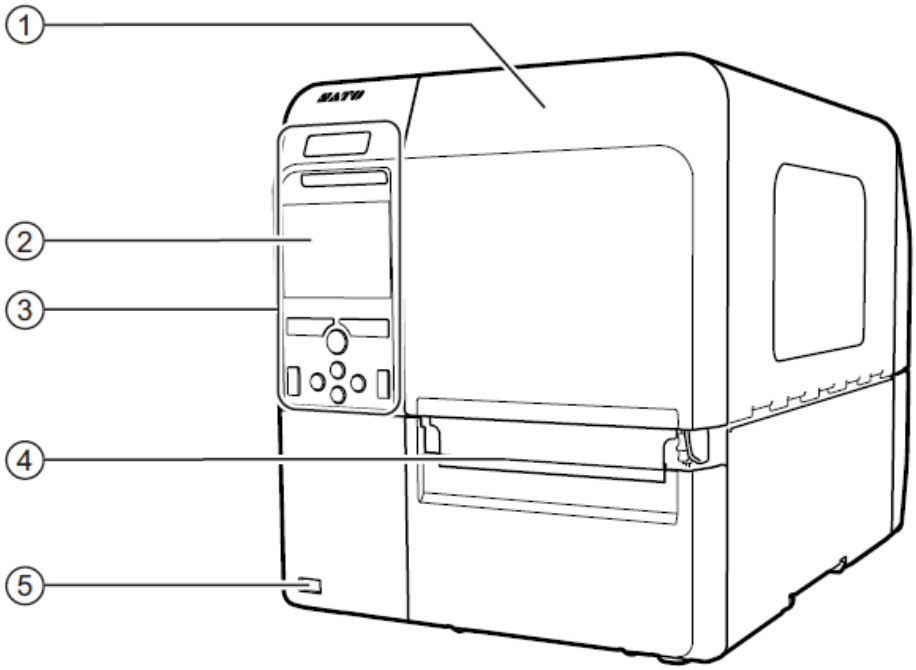
The CL4NX is the successor to SATO's popular CL Series which defined the mid-range genre for industrial barcode printers. Positioned as SATO's first truly universal label printer, the CL4NX has been engineered for the industry's most demanding printing needs. With technological innovations in service ergonomics that guarantee reduced downtime and maximum productivity. The product concept behind the CL4NX was to bring to market a printer that is ***plug-and-play*** and ***simple-to-operate***. Like the CL before it, which set the standard for reliability and performance, the CL4NX seeks to further SATO's brand reputation with an optimized industrial design, intuitive operations and more standard features than any other leading competitor. The CL4NX series is the product of SATO's industry experience and ceaseless creativity. It is the ***all-in-one*** printing solution that goes beyond expectations.

Exclusive features of the CL4NX:

- Full color graphic display and intuitive navigation menus
- Durable all metal construction and reinforced internal parts
- Tool-less service parts replacement & field installable options
- Powerful processing capability using dual 800MHz CPUs
- Globally deployable with 30 languages and all major agency approvals
- Flexible print controls and Label Tension Damper System (LTDS) for superior print accuracy
- Competitive emulations selectable via the printer's LCD menu in addition to SATO's proprietary SBPL
- Standard serial, parallel, LAN(IPv4/IPv6), USB (2 USB Type A and 1 USB Type B), EXT I/O Port and Bluetooth (initially only available for North America and Europe) multi-port interface connectivity
- Standard media support for inside/outside wound media (ribbon/label) and increased darkness range settings to support a wider range of media types.

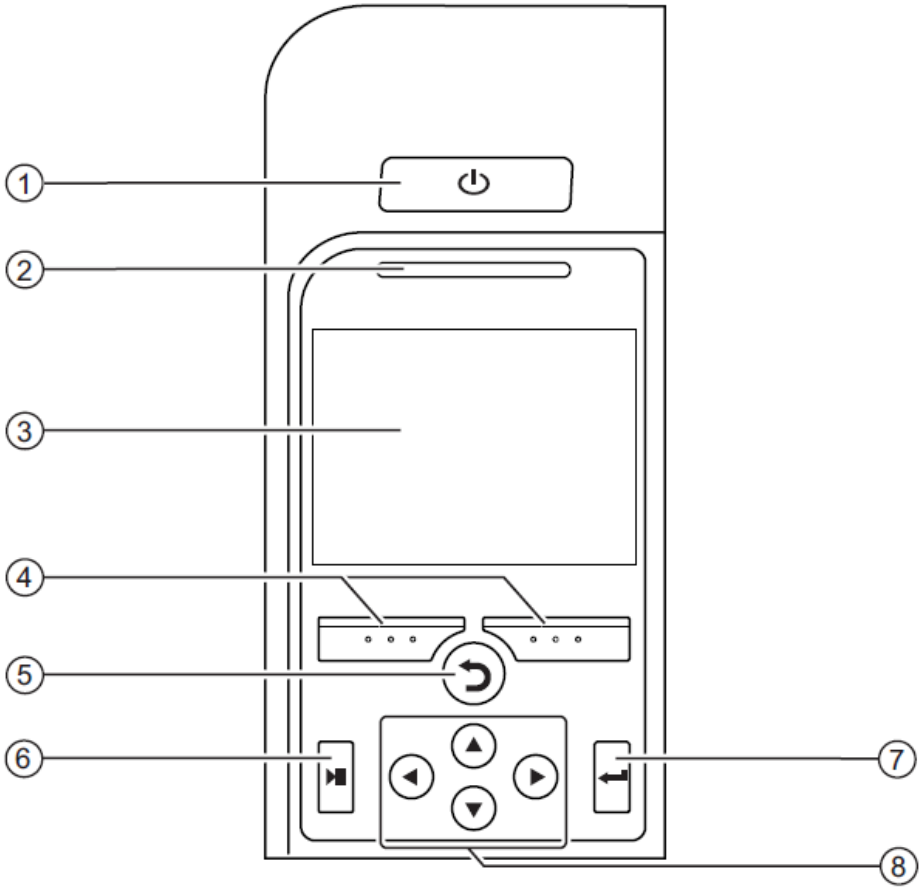
CL4NX Series Product Tour

Front View



① **Bi-fold cover**
② **Color LCD**
③ **Operator panel**
④ **Media discharge outlet**
⑤ **USB port (Type A)**
Enhanced troubleshooting, maintenance, and user memory options

Operator Panel



① **Power button**

Press the power button for more than a second to turn on the printer.

Press the power button for more than two seconds to turn off the printer.

② **LED indicator**

③ **Color LCD**

④ **Soft buttons**

The functions change depending on the screen. The functions of the buttons are indicated below the screen.

(For example: when in online mode, left soft button: CANCEL PRINT; right soft button: FEED)

⑤ **Back button**

Go back to the previous screen.

⑥ **Line button**

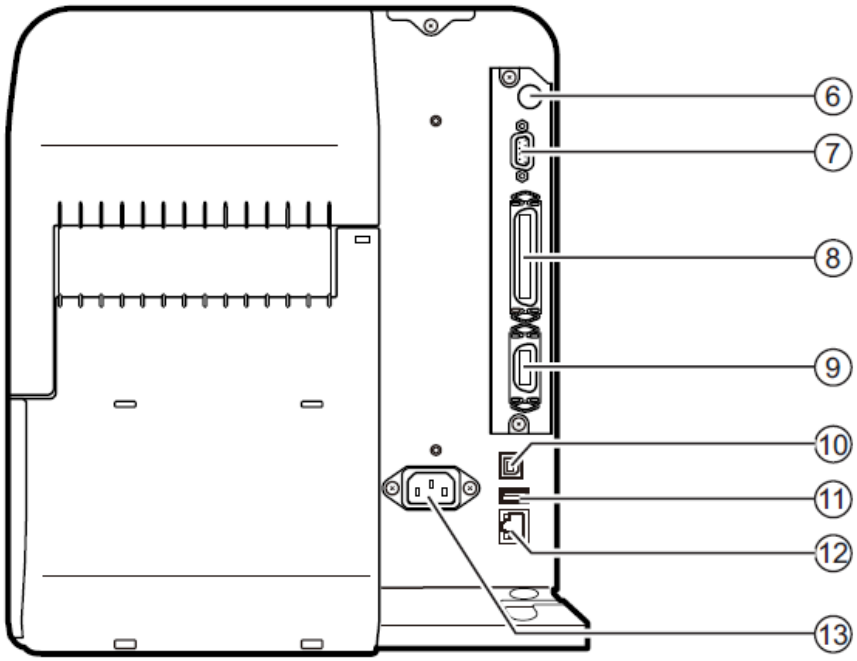
Toggle between online/offline mode or playback/pause the video.

⑦ **Enter button**

Confirm the selected item or the setting value.

⑧ **◄/►/▲/▼ Arrow buttons**

Rear View



⑥ **Wireless LAN (optional) antenna**
To install the optional wireless LAN antenna.

⑦ **RS-232C port**
To connect printer to the host computer using the RS-232C serial interface.

⑧ **IEEE1284 port**
To connect printer to the host computer using the IEEE1284 interface.

⑨ **EXT port (External signal interface)**
Interface connector for external signals.
Connect the optional applicator to this terminal.

⑩ **USB port (Type B)**
To connect printer to the host computer using the USB interface.

⑪ **USB port (Type A)**
For connecting to optional USB memory.

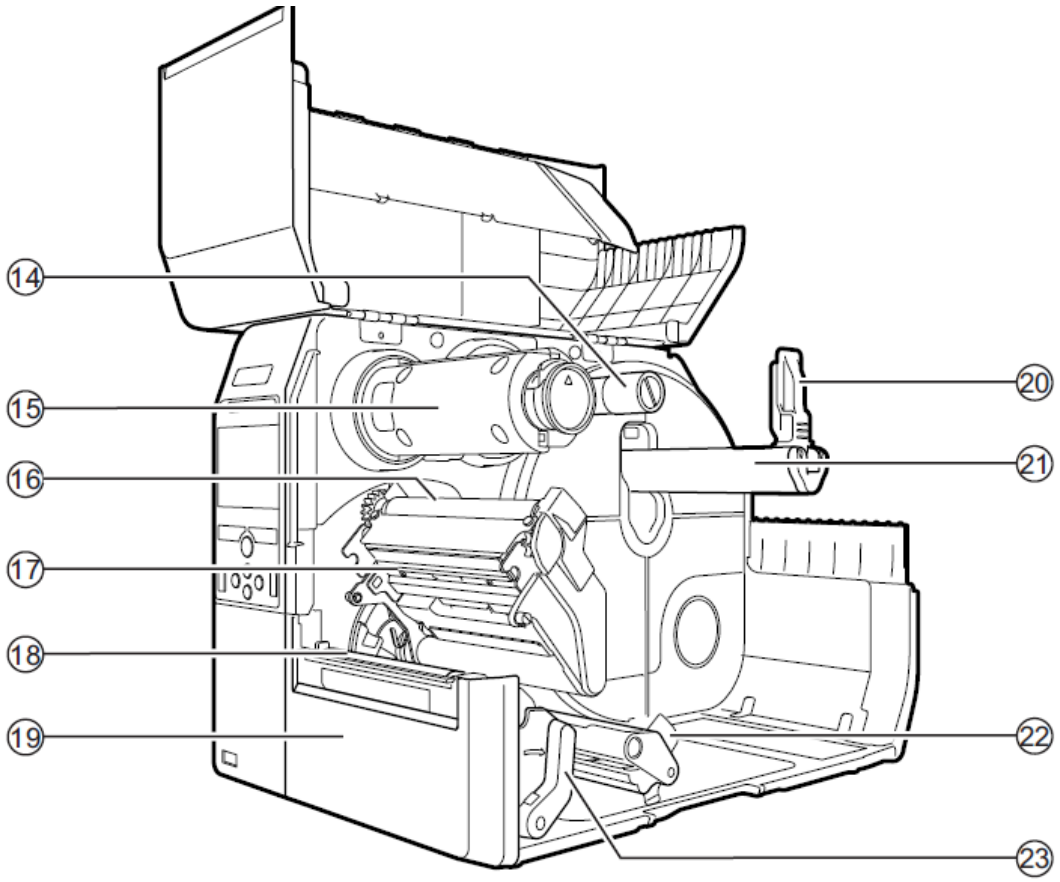
⑫ **LAN port**
To connect printer to the host computer using the LAN interface.

⑬ **Power connector**
Supplies power to the printer through the inserted power cord.

Before connection, make sure that the AC voltage of your region is within the range of AC 100 to 240V, 50~60 Hz.

*Some models are not equipped with ⑥ ~ ⑨.

Internal View



⑭ **Ribbon supply spindle**

⑮ **Ribbon rewind spindle**

⑯ **Ribbon roller**

⑰ **Print head (Consumables)**
The part to print on the media. Do the maintenance regularly.

⑱ **Platen roller (Consumables)**

⑲ **Front cover**

⑳ **Media holder guide**
Used to hold the media.

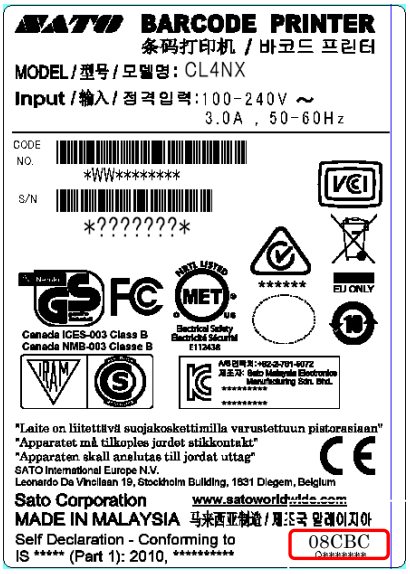
㉑ **Media holder**

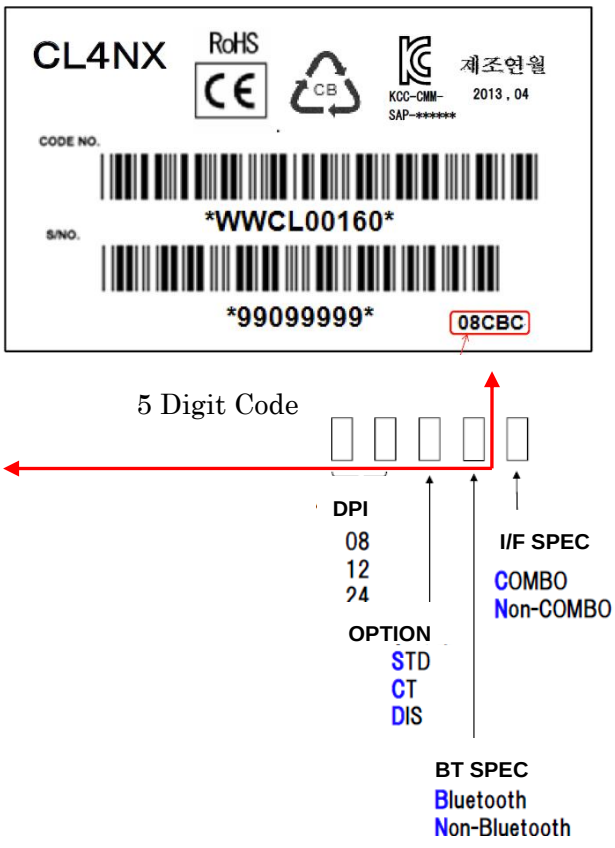
㉒ **Media guide**

㉓ **Head lock lever**
Used to release the print head assembly.

Global Acceptance

The CL4NX is a globally accepted printer series which has been certified for sale around the globe. With few exceptions the power cable is the only change required to conform to local power/plug. To facilitate distribution of all models under the single CL4NX marque, several changes have been made to product identification labels. On the product nameplate model specific data has been removed and replaced with a 5 digit code to distinguish head resolution, options, and interface. The 5 digit code is also used in the inventory control label used on carton boxes. This 5 digit coding system was devised to improve product certification and regulation requirements by allowing all CL4NX models regardless of specification to exist under the single series name. Refer to images below.





2 UNIQUE SELLING POINTS

User-Friendly Operation

SATO has implemented an entirely new user interface based on intuitive operation to assist operators and improve the user experience. Some of these features include:

- The power on button has been relocated to the top upper corner for convenient access.
- A large LED status bar above the LCD signals operators to the printer online/offline status and alerts them in the event of printing error.
- Traditional line and feed keys are replaced with universal icons and soft keys that change with the menu display to simplify screen navigation. The new menu design utilizes an icon system similar to popular consumer devices making navigation through printer settings, applications and system information easier than ever before.
- An onscreen key pad allows alpha-numeric input required for network or application settings.

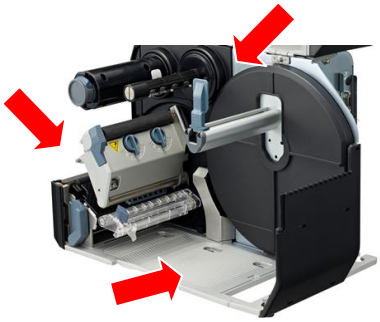
- A 3.5” full color LCD display provides sharp visible images and onscreen brightness setting lets users adjust the screen to the workplace environment.
- Guidance videos assist operators in a variety of situations from media loading to replacements. The option to play guidance videos is available to operators when a specific action is required. The videos can also be accessed at any point in time through the printer’s Help menu.

Durable Design

The new CL4NX is constructed almost completely with metal parts making it the most durable printer in its class. Areas of particular interest are as follows:

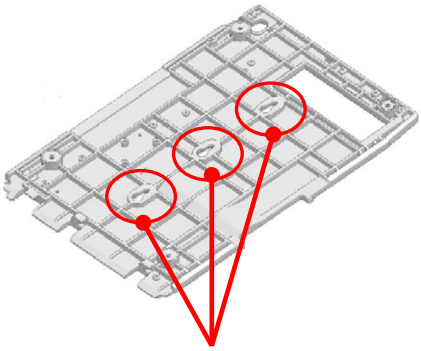
- Printing side of front panel, print mechanism, frame and baseplate are all made of aluminum die-cast to tolerate the harshest user environments.

Metal Front & Side Cover



Aluminum die-cast print mechanism frame and, base

- The baseplate has been designed with stationary mounts allowing asset securement, inclined installation, and mounting to carts, loose loop applicators etc.
- A receded I/F panel with power cable hook protects connections and reduces protruding



3 Point Frame Mounting

Receded I/F panel and cable hook

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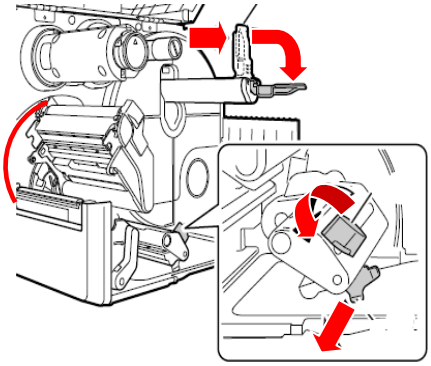
Easy Setup and Maintenance

The CL4NX was designed with simplicity in mind and each area of operation has been addressed to reflect this concept.

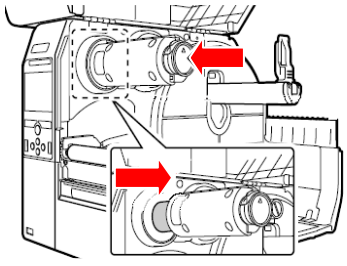
- Startup wizard to help setup initial items including language, date/time (with optional RTC), and model specific settings. 18 other guidance videos are available to help operators troubleshoot and resolve printing errors.
- 60° print mechanism opening for spacious access to the print head, platen roller, and label sensors.
- Movable parts such as the head open lever, ribbon release, label holder and media routes have been engineered to optimize form factor and operator safety.

Wide-open print mechanism and media path



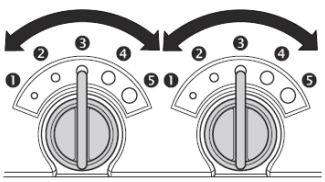
Label guides and label tension damper system for easy label setting.

- Coreless ribbon spindle, label tension damper system and ergonomic label guides to simplify media loading and replacement.
- Tool-less print head, platen roller parts and advanced maintenance including head pressure and balance implement tool less dial design for easy adjustment.



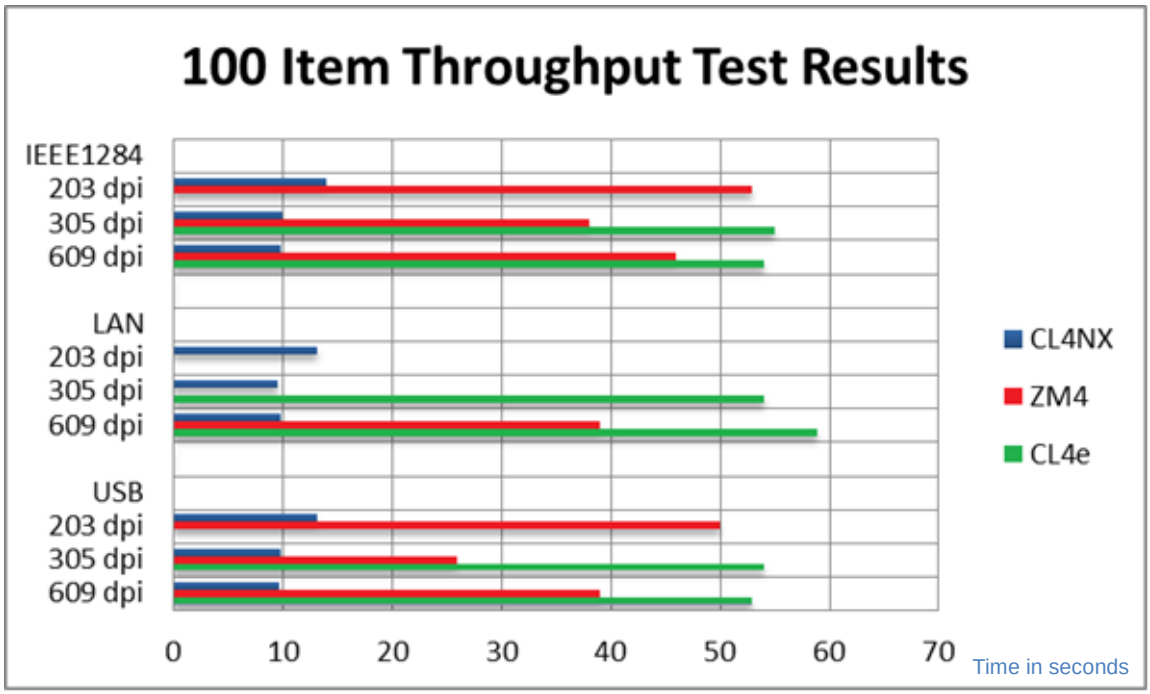
Coreless spindle with quick release button for ribbon replacement

Tool-less dial style design for head pressure and balance



High Speed Processing and Throughput

SATO prides itself on having printers with the fastest time to “first label out” and this tradition has been carried over to the new CL4NX Series. With a startup time of less than 5 seconds users will immediately notice the responsiveness of the CL4NX. The ability to process data is solely dependent on the printer’s CPU and SATO engineers have created an entirely new framework for the CL4NX powered by dual 800 MHz processors with 2GB ROM and 320MB of RAM. The expansive memory size accommodates the operating system, standard emulations, languages and a rich selection of fonts, while still leaving an abundant user space of 100MB for customer data. This combination provides responsive system operations and more importantly high speed data processing for all label layouts regardless of data format or print resolution. The proof is in the results as illustrated below.



Using identical data a 100 item throughput test including competitive printer Z and the CL4e legacy series shows the CL4NX supremacy. Batch and single item tests using both SBPL and competitive emulations prove that the CL4NX is faster with any interface and at any resolution setting.

Multi-National Language Support

Many businesses today serve the international market and require multi-national language support. SATO recognized this need and developed the CL4NX with the most extensive language support package to date. Printer menu operations are available in 30+ different languages to accommodate the diverse global workforce. Printing capability for code pages and encoding character sets like WGL4, Big 5, JIS, and UTF 8/16 cover over 47 of the major world languages. A standard selection of 12 embedded bitmap and 15 scalable fonts with additional font download support. All this and major agency approvals make the CL4NX is the most versatile printer on the market and ready for global deployment.

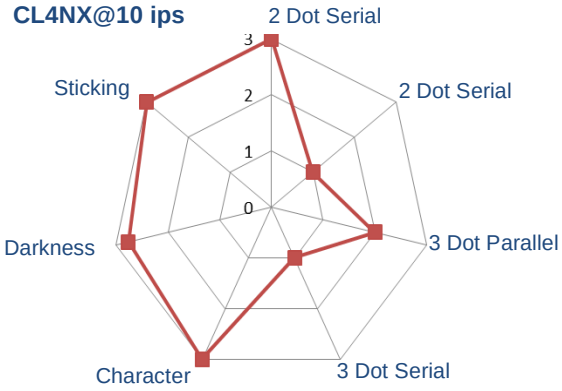
Display Languages	
Arabic	Italian
Bulgarian	Japanese
Chinese (Trad/Simp)	Korean
Czech	Norwegian
Danish	Persian
Dutch	Polish
English (US)	Portuguese (BR/PT)
Farsi	Romanian
Finnish	Russian
French	Slovak
German	Spanish
Greek	Swedish
Hindi	Thai
Hungarian	Turkish
Indonesian	Vietnamese

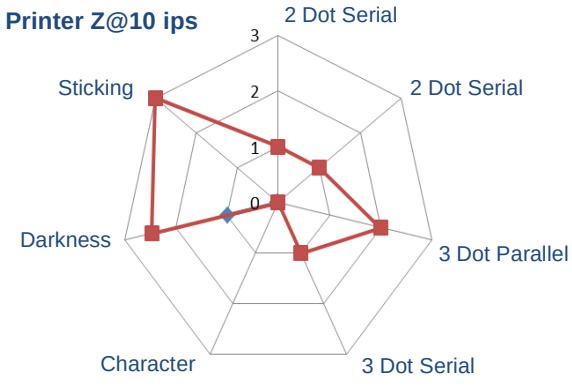
Superior Print Accuracy and Quality

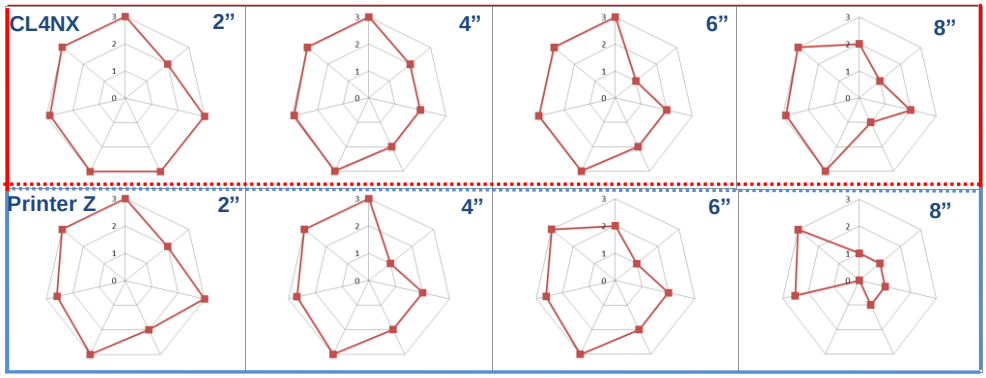
The CL4NX is the definitive model in its class when it comes to print quality. With precision hardware and flexible software it is beyond competitive comparison.

- Synchronized ribbon and platen rollers reduce potential for ribbon wrinkle
- The Label Tension Damper System (LTDS) to ensure top of form print accuracy of +/-1mm with varying modes of operation and media.
- The enhanced darkness range increases print quality in ambient temperatures across the spectrum. Higher power levels support non-traditional materials and at lower operating temperatures.
- Darkness can be adjusted between presets to fine tune the transfer energy and produce optimal matches for superior print.

Below are results of print quality comparisons measuring darkness, character readability, barcode grading and overall quality at various speeds. The CL4NX maintained higher quality levels and performed better across the speed range than the competitive models tested..







Emulation Support

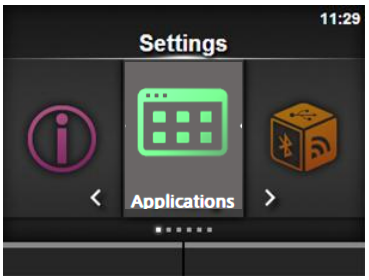
Thoroughly tested and proven in the field, SATO's competitive printer emulations eliminate installation base restrictions and changeover costs. Emulations provide direct interpretation of customer data strings doing away with the need for costly software. With 4 standard emulations the CL4NX offers plug and play replacement for the competition. Emulations can be directly enabled through the applications menu or selection can be automated with the Autoswitch mode. Upgrade emulations with the USB utility or AIOT. The following popular printing language emulations are available:

SDPL: DPL© Emulation Language

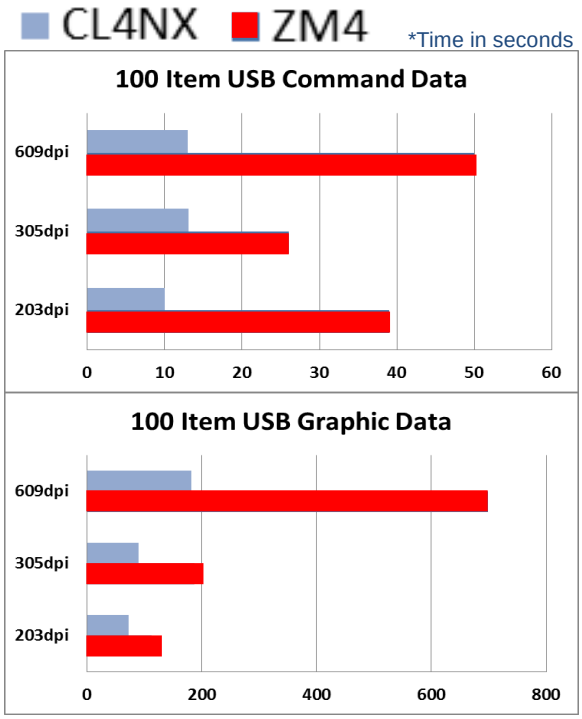
SIPL: IPL© Emulation Language

STCL: TCPL© Emulation Language

SZPL: ZPL® Emulation Language



Testing with the leading competitor's print language proved that SATO's emulation is more efficient than the original. The CL4NX achieve faster throughput times using both graphic and command data. Print quality also graded consistently higher for the CL4NX.



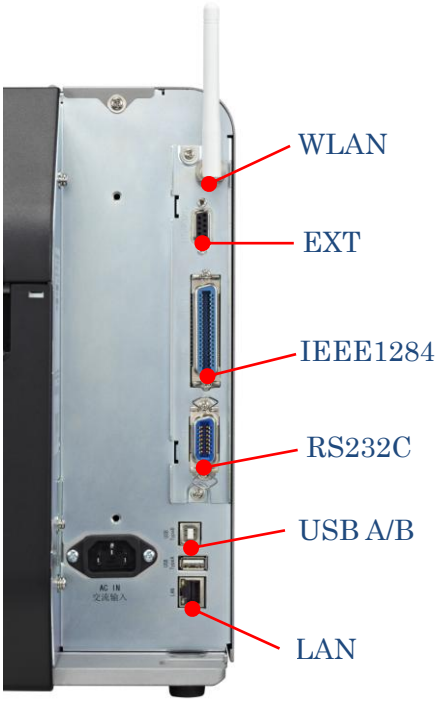
Graphic Data Image

Multiple Onboard Interfaces Standard

SATO understands the importance of connectivity and has equipped the CL4NX with more standard interfaces than any other printer on the market. Serial, parallel, IPV4/IPV6 LAN, USB, Bluetooth and EXT I/O ports compose the standard configuration. WLAN with Wifi and Cisco™ CCX certification is available as an add-on option. Autohunt setting detects incoming data automatically on a FIFO basis allowing simultaneous interface connection.

	CL4NX	ZM4	CL4e
LAN	Standard	Option	Option
USB	Standard	Standard	Option
IEEE1284	Standard	Standard	Option
RS232C	Standard	Standard	Option
EXT	Standard	Option	Standard
WLAN	Option	Option	Option
Bluetooth	Standard*	N/A	N/A

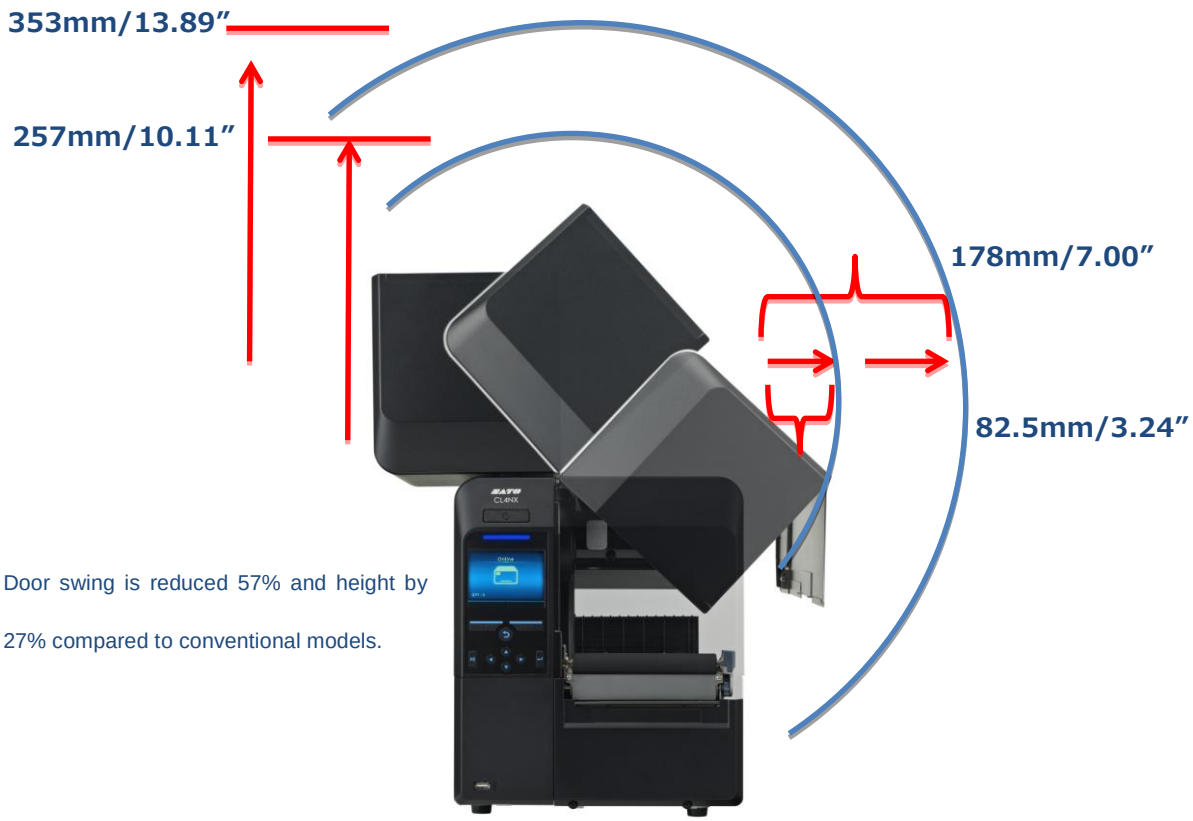
*Bluetooth is available in regions with wireless certification



USB ports for printer peripherals and standalone operations are conveniently found on both the front and back of the printer. With the USB drive users can load print settings, fonts, graphics, and update firmware or emulations. To support the integration of mobile devices, CL4NXs are equipped with Bluetooth 3.0 for short range wireless communication. With twice as many standard interfaces as the competition the CL4NX delivers beyond expectations.

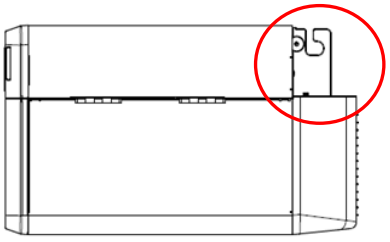
Space Saving Design

A collapsible cover has been employed on the CL4NX to reduce the printer's footprint in the workplace. Smaller businesses or operations confined to limited workspace will appreciate the space saving design. Door swing has been reduced 57% compared to current CL4e Series. This allows the CL4NX to fit into tighter spaces and be placed next to or under objects while maintaining operation integrity.



Door swing is reduced 57% and height by 27% compared to conventional models.

The receded rear interface panel protects connections and helps avoid protruding cables. It also reduces operating space requirements so the printer can be flush against wall or fixtures.

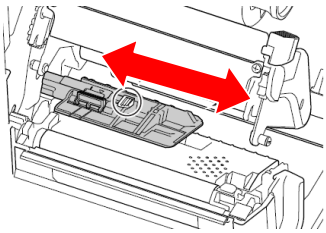


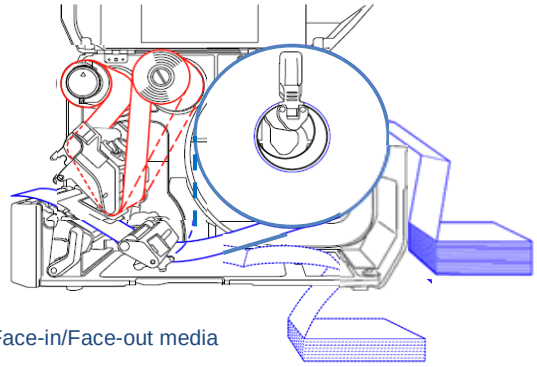
Receded Interface Panel and Cable Routing Hook

Variety of Media Types

As the first truly universal label printer the CL4NX incorporates essential media versatility features like face-in/face-out media support, adjustable Gap/I-mark sensor, and access points for fan-fold or external roll media. Standard media support for a 8” label roll and 600m ribbon supply types, with an alternative label holder setting for roll capacity of up to 10”. New darkness range improves supports for rare material types and increases quality throughout operational temperatures. The oversized ribbon wind spindle minimizes ribbon wrinkle in thermal transfer mode and the LTDS applies consistent tension to media to reduce image distortion.

Adjustable media sensor





Face-in/Face-out media

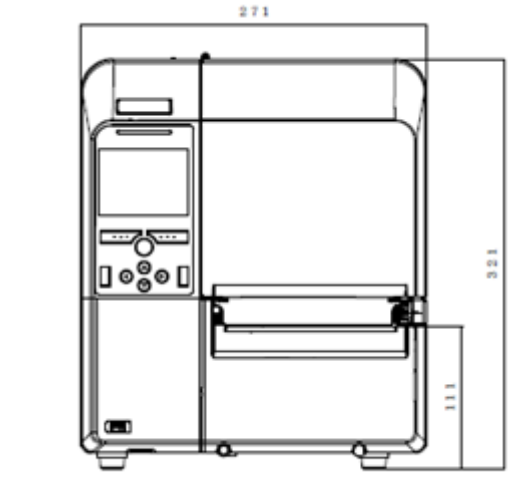
SATO recommends genuine supply materials for optimum print quality but has tested the CL4NX with a variety of widely used media types to ensure printing performance. Assessment with non-traditional supply types and adverse printing conditions validate the CL4NX’s ability to handle most any media on the market.

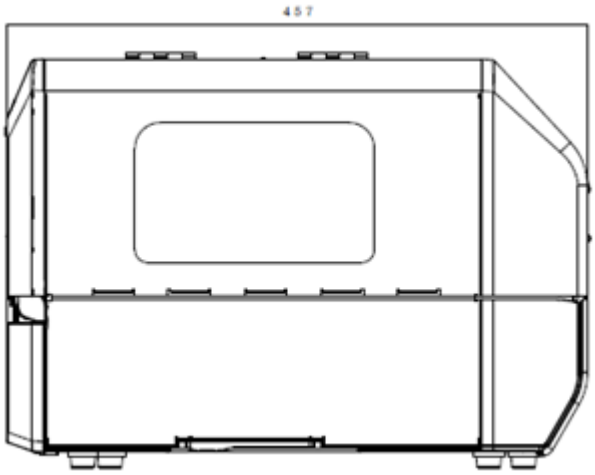
	Evaluation	Condition	CL4NX
1	Coarse Substrate	Absence of voids due to material	✓
2	Sensitive Substrate	Darkness and barcode grade	✓
3	Adherence/ Binding	Monitor occurrence	✓
4	Outside Temperature	Various humidity temperatures	✓
5	Print Stability	800 consecutive print batch	✓

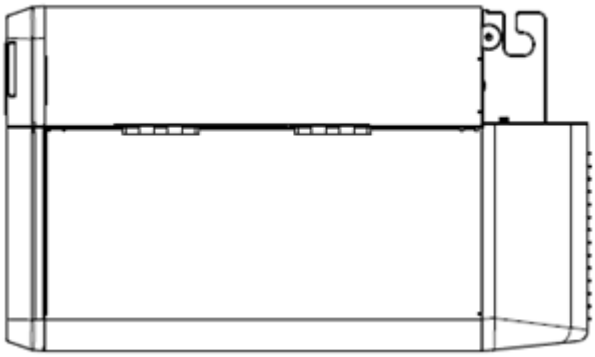
3 PRINTER SPECIFICATIONS

PRINTER MODEL		CL4NX		
Print Method		Direct Thermal or Thermal Transfer		
Print Resolution		203 dpi (8 dots/mm)	305 dpi (12 dots/mm)	609 dpi (24 dots/mm)
Print Speed		10 ips (254.0 mm/sec)	8 ips (203.2 mm/sec)	6 ips (152.4 mm/sec)
Print Mode		Continuous, Tear-off, Cutter, Dispense		
Print Area	Maximum Width	4.1" (104.0 mm)		
	Maximum Length	98.43" (2500.0 mm)	59.06" (1500.0 mm)	15.75" (400.0 mm)
MEDIA SPECIFICATIONS				
Sensor Type		Adjustable Transmissive Sensor for Gap, Adjustable Reflective Sensor for Black Mark, Paper End, Ribbon Near-End/End		
Media Type		Roll (Continuous, Die-cut), Fan-fold, Tag, Ticket		
Media	Width	0.87"（22.0 mm）- 5.04"（128.0 mm）		
	Thickness (label & liner)	0.002" (0.060 mm) - 0.011" (0.268 mm)		
	Roll Diameter	Maximum 8" (203.2 mm) on 3" (76.0 mm) ID Core		
	Wind	Face-in / Face-out, No Setting Change Required		
Ribbon	Width	1.55" (39.5 mm) - 5.04"(128.0 mm)		
	Length	1,968.5 ft (600 m) on 1" (25.4 mm) ID Core		
	Roll Diameter	Maximum 3.54" (90.0 mm)		
	Wind	Face-in / Face-out, No Setting Change Required		
MEMORY & PROCESSING SPECIFICATIONS				
CPU 1		2GB ROM, 256MB RAM for Linux OS		
CPU 2		4MB ROM, 64 MB RAM for ITRON OS		
COMMUNICATION INTERFACES SPECIFICATIONS				
Standard		USB 2.0 (Type A, Type B), Ethernet (IPv4/v6) on Rear Panel USB 2.0 (Type A) on Front Panel RS-232C, IEEE1284, EXT on Standard Interface Board Bluetooth Ver.3.0 (only for NA & EU)		
Optional Wireless LAN kit		Wi-Fi and CCX Certified, IEEE 802.11 a/b/g/n, Dual Band (2.4 GHz, 5 GHz)		
OPTIONS				
Cutter, Dispenser with Internal Liner Re-winder, Real-Time Clock, UHF RFID (ISO18000-6 Type C) ,W-LAN kit				
FONT/BARCODE SYMBOLOGIES SPECIFICATIONS				
Internal Fonts	Bitmap	U, S, M, WB, WL, XS, XU, XM, XB, XL, OCR-A, OCR-B, Chinese (GB18030, Big5), Korean (KSX1001)		
	Scalable	CG Times, CG Triumvirate™, 13 SATO Fonts, Multi National language Support (47 language/Unicode)		
Barcodes	Linear	Code 39, Code 93, Code 128, CODABAR (NW7), EAN8/13, GS1-Databar™, GS1-128(UCC/EAN128), Interleaved 2/5, Industrial 2/5, JAN8/13, Matrix 2/5, MSI,		
	2D Symbologies	PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, QR Code, Micro QR Code		
	Composite Symbologies	EAN-13, EAN-8, GS1 DataBar, GS1 DataBar Truncated, GS1 DataBar Stacked, GS1 DataBar Expanded Stacked, GS1 DataBar Expanded, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Limited, GS1-128, UPC-A, UPC-E		
User Downloadable Fonts, Graphics or Format		Maximum 128MB		
OPERATING & ENVIRONMENT CHARACTERISTICS				
Electrical Requirements		Universal Auto-ranging, 100-240VAC +/- 10%, 50/60Hz Energy Star Compliant		
Standards & Certification		EN60950-1, UL60950-1/CSA C22.2 No.60950-1, C-Tick, CCC, KC, S-Mark		
Agency Approvals		cMETus, CE marking, FCC, NEMKO GS, ICES-003, NMB-003, KC, CCC, S-mark,		
Environment	Operating	32 to 104°F (0 to 40°C), 30 - 80% RH, Non-Condensing		
	Storage	-4 to 140°F (-20 to 60°C), 30 - 90% RH, Non-Condensing		
PHYSICAL CHARACTERISTICS				
Dimensions		Width: 10.67" (271.0 mm) Depth: 17.99" (457.0 mm) Height: 12.63" (321.0 mm)		
Weight		33.0 lbs. (15.1kg)		

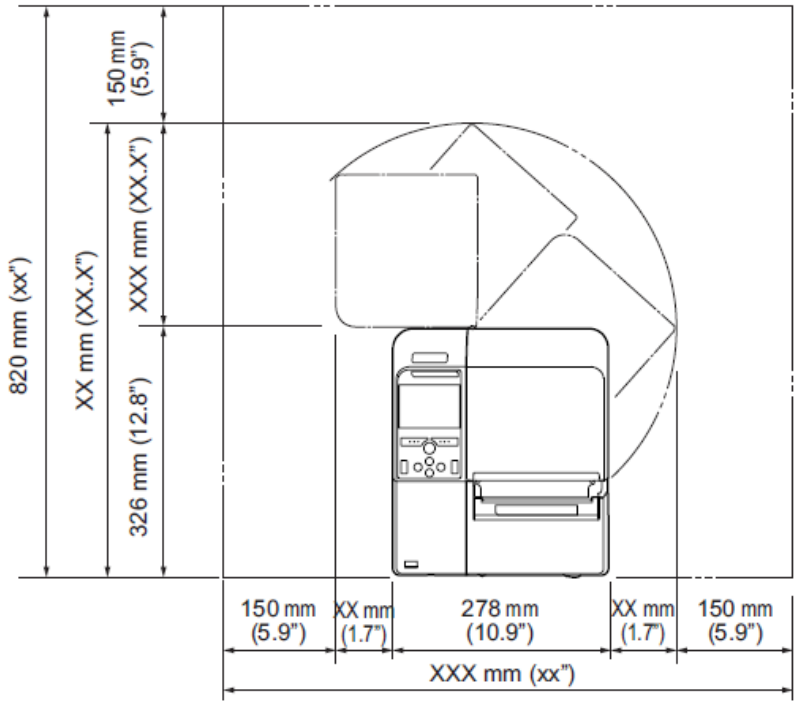
Dimensional Printer Drawing

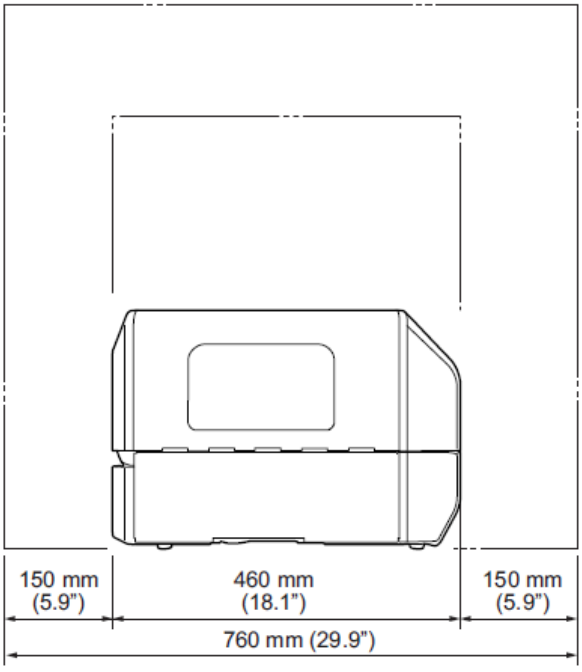






Recommended Operational Space





Certified Power Cable

Power cables will be packed at the factory or kitted at the distribution center depending on country of destination. Listed below are the power cables approved by safety certification agencies for use with the CL4NX.

Destination	Maker	P / N	Length	Plug
Singapore	Lian Dung	H02709000	2M	
Malaysia	Lian Dung	H02710000	2M	
Thailand	Lian Dung	H02711000	2M	
Vietnam	Hewtech	H00879000	3M	
Indonesia	Hewtech	H00879000	3M	
India	Hewtech	H02712000	2M	
China	Hewtech	H00880000	3M	
Korea	H.R.Silvine	H01564000	2M	
Australia	Lian Dung	H02713000	2M	
EU	Hewtech	H00879000	3M	
England	Lian Dung	H02642000	2M	
USA/CAN	Hewtech	H00878001	3M	
Brazil	Hewtech	H02714000	2M	
Argentina	Lian Dung	H02715000	1.8M	

Networking Support

CL4NX supports IPV4 and IPV6 internet protocols. Printer operations can be monitored remotely with simple network protocols or with the web browser interface. The web browser offers a dashboard similar to the printer LCD display allowing remote access and control of all printer configuration and settings. This functionality can be used both private and enterprise IT professionals to manage printer maintenance.

Additional network support is available through SATO's all-in-one software tool, AIOT. Network management for multiple printers with diagnostics and firmware upgrades is especially useful for enterprise deployment and resource control.

4 CL4NX SERIES ADVANTAGES

	CL4NX Series	Competition
Plug-and-Play	Setup Wizard	No initial onscreen setup instructions
	Auto-switch Emulation	Some standard support, print language setting required
Simple-to-Operate	Guidance Videos	Must refer to operator manual to resolve errors
	Tool-less TPH & Platen	Partial tool free head and platen parts replacements
All-in-One	Full Combo Interface	No printer on the market offers more standard I/F
	Multiple Head Resolution	If supported hardware and/or configuration

COMPETITOR COMPARISONS: CL4NX vs. Zebra ZM4

MANUFACTURER		SATO	ZEBRA
Model		CL4NX 	ZM400 
List Price		$1695 - 3740	$1695-3115
PRINT FEATURE			
Technology		Thermal Transfer	Thermal Transfer
Resolution		203/305/609 dpi	200/300/600 dpi
Print Speed		2-10 ips	2-10 ips
MEDIA SPECIFICATION			
Max Width		128 mm	104 mm
Max Length		2500 mm	991 mm
Roll O.D.		203 mm	203 mm
Roll I.D.		76 mm	76 mm
Max Ribbon Length		600 M	450 M
HARDWARE SPECIFICATION			
Processor		Dual 800 MHz	Single Processor
Memory	ROM	2 GB	8 MB
	RAM	256 MB	16 MB
INTERFACE			
Standard		USB, RS-232, IEEE1284, LAN, EXT I/O, Bluetooth, USB Host	USB, RS232, IEEE1284
Optional		WLAN	LAN, WLAN
PHYSICAL CHARACTERISTICS			
Dimensions		L457 x W271 x H321mm	L475 x W278 x H338mm
Weight		15.1kg	15 kg

CL4NX vs. Intermec PM43

MANUFACTURER		SATO	INTERMEC
Model		CL4NX 	PM43 
List Price		$1695 - 3740	$1890-4546
PRINT FEATURE			
Technology		Thermal Transfer	Thermal Transfer
Resolution		203/305/609 dpi	203/300/406 dpi
Print Speed		2-10 ips	4-12 ips
MEDIA SPECIFICATION			
Max Width		128 mm	104 mm
Max Length		2500 mm	1220/4850 mm
Roll O.D.		203 mm	212.75 mm
Roll I.D.		76 mm	38-76 mm
Max Ribbon Length		600 M	450 M
HARDWARE SPECIFICATION			
Processor		Dual 800 MHz	Single Processor
Memory	ROM	2 GB	128 MB
	RAM	256 MB	128 MB
INTERFACE			
Standard		USB, RS-232, IEEE1284, LAN, EXT I/O, Bluetooth, USB Host	USB, RS232, LAN, USB Host
Optional		WLAN	IEEE1284, WLAN, RS422/485
PHYSICAL CHARACTERISTICS			
Dimensions		L457 x W271 x H321mm	L483 x W284 x H294mm
Weight		15.1kg	12.5 kg

CL4NX vs. I-Class

MANUFACTURER		SATO	DATAMAX
Model		CL4NX 	I-Class 
List Price		$1695 - 3740	$1565-3770
PRINT FEATURE			
Technology		Thermal Transfer	Thermal Transfer
Resolution		203/305/609 dpi	203/300/600 dpi
Print Speed		2-10 ips	6-12 ips
MEDIA SPECIFICATION			
Max Width		128 mm	104 mm
Max Length		2500 mm	2475 mm
Roll O.D.		203 mm	203 mm
Roll I.D.		76 mm	38-76 mm
Max Ribbon Length		600 M	600 M
HARDWARE SPECIFICATION			
Processor		Dual 800 MHz	Single Processor
Memory	ROM	2 GB	64 MB
	RAM	256 MB	32 MB
INTERFACE			
Standard		USB, RS-232, IEEE1284, LAN, EXT I/O, Bluetooth, USB Host	USB, RS232, IEEE1284
Optional		WLAN	LAN, WLAN, GPIO, USB Host
PHYSICAL CHARACTERISTICS			
Dimensions		L457 x W271 x H321mm	L320 x W322 x H472mm
Weight		15.1kg	20.5 kg

CL4NX vs. CL4e

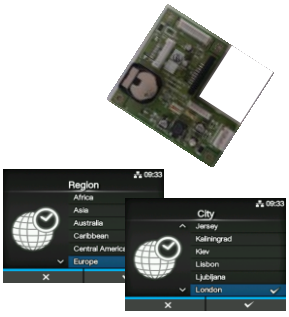
MANUFACTURER		SATO	SATO
Model		CL4NX 	CL4e 
List Price		$1695 - 3740	$1695 - 3495
PRINT FEATURE			
Technology		Thermal Transfer	Thermal Transfer
Resolution		203/305/609 dpi	203/305 dpi
Print Speed		2-10 ips	2-6 ips
MEDIA SPECIFICATION			
Max Width		128 mm	104 mm
Max Length		2500 mm	
Roll O.D.		203 mm	218 mm
Roll I.D.		76 mm	38 mm
Max Ribbon Length		600 M	450 M
HARDWARE SPECIFICATION			
Processor		Dual 800 MHz	Single Processor
Memory	ROM	2 GB	4 MB
	RAM	256 MB	16 MB
INTERFACE			
Standard		USB, RS-232, IEEE1284, LAN, EXT I/O, Bluetooth, USB Host	
Optional		WLAN	USB, RS-232C, IEEE1284, LAN, WLAN
PHYSICAL CHARACTERISTICS			
Dimensions		L457 x W271 x H321mm	L430 x W271 x H321mm
Weight		15.1kg	13kg

5 OPTIONS AND ACCESSORIES

In addition to the multiple standard onboard interfaces an optional WLAN add-on kit and a WLAN only I/F card are available. For dispense and pre-print applications the SATO offers a guillotine cutter unit and an internal re-winder option for liner uptake. For RFID applications a UHF ISO18000-6 Gen2 kit using Thing Magic's M6e module is available. The RFID kit includes both standard and short pitch antennas with an adjustable dial for antenna position. A real-time clock kit provides calendar and time stamp functionality. Furthermore the CL4NX supports existing tabletop accessories like the popular external label supply unit and re-winder unit.

Product Code	Description
R29797000	PRINT HEAD 203 DPI
R29798000	PRINT HEAD 305 DPI
R29799000	PRINT HEAD 609 DPI
WWCL05080	WLAN KIT (FOR COMBO I/F CARD)
WWCL05081	WLAN ONLY I/F CARD
WWCL05D00	UHF RFID KIT (RTC included)
WWCL05100	CUTTER KIT
WWCL05200	DISPENSER KIT (RTC included)
WWCL05900	RTC (CALENDAR) KIT

Availability of the WLAN and RFID options varies from region



7 SPARE PARTS INFORMATION

The following list represents the recommended or most commonly used spare parts. These spare parts should be stocked at the reseller level. Those consumable spare parts critical to operations such as the print head, platen roller, and belts etc should be stocked by the end user. End-users should also consider stocking one spare printer for every 3-5 installed systems. SATO genuine parts are to be recommended when servicing a printer. Non-genuine parts can lead to performance degradation and/or could cause damage to the product.. Complete spare parts list and parts diagrams can be obtained from any SATO subsidiary.

Part Number	Description
R29797000	PRINT HEAD ASSY 203 DPI
R29798000	PRINT HEAD ASSY 305 DPI
R29799000	PRINT HEAD ASSY 609 DPI
R29792000	PLATEN ASSY
R29801000	RIBBON ROLLER ASSY
R28363000	SENSOR PCB
R29791000	SENSOR ASSY
R28329001	CONT PCB ASSY
R28339000	KB PCB ASSY (LCD)
R29211000	POWER SUPPLY
P23172000	TORQUE LIMITER
P12267000	TORQUE LIMITER
R28331000	COMBO I/F PCB
P53110000	REAR COVER

GLOBAL WARANTY

The CL4NX conforms to existing warranty periods for printer and spare parts with print head and platen useful life of 30 kilometers. The Global Warranty Program is applicable when the place of purchase is different from place of installation and the purchase date is less than one year. If the place of purchase and place of installation are the same, local warranty conditions apply. For more information on the Global Warranty Program please visit us on the web.

http://www.satoworldwide.com/global-warranty-program.aspx