GENERAL SPECIFICATIONS / CL4NX

PRINTER MODEL

CL4NX

PRINT SPECIFICATIONS

Print Method

Direct Thermal or Thermal Transfer

Print Resolution

203 dpi	305 dpi	609 dpi
(8 dots/mm)	(12 dots/mm)	(24 dots/mm)

Print Speed

10 ips	8 ips	6 ips
(254.0 mm/sec)	(203.2 mm/sec)	(152.4 mm/sec)

Print Mode

Continuous, Tear-off, Cutter, Dispense

Print Area

Maximum Width

4.1" (104.0 mm)

Maximum Length (Continuous mode)

98.43"	59.06"	15.75"
(2500.0 mm)	(1500.0 mm)	(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

SATO Genuine Consumables

For Maximum Print Quality and Optimum Use, SATO Recommends the Use of SATO Genuine Consumables

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MEMORY & PROCESSING SPECIFICATIONS

Dual CPU & Dual OS

CPU1: 2GB ROM, 256MB RAM for Linux OS
CPU2: 4MB ROM, 64 MB RAM for ITRON OS

USER FRIENDLY SUPPORT TOOLS

Large Status LED

Blue/Red

Alarm Sound

Beep (3 volume setting)

Self Diagnosis

Head Check, Cutter-Cover Open, Stand-by Mode, Auto-Calibration

Display Panel

TFT Full Color LCD, 3.5"(320 (RGB) *240)

Multi National Language Support

47 Languages Scalable Fonts for Print
30 Languages for LCD Menu

Operation Video

Preset: 18 (Media Loading, Parts Replacement, Cleaning, RFID Antenna Setting)
Optional: customized video (maximum 100MB)

Emulation

Auto detect - SBPL, SZPL, SDPL,SIPL or STCL

Remote Maintenance

SNMP Ver. 3, HTTPs

COMMUNICATION INTERFACES SPECIFICATIONS

Standard

USB 2.0 (Type A, Type B), and 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*

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 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)

BARCODE SYMBOLOGIES SPECIFICATIONS

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, MS1, Bookland, Postnet™, UPC-A/E

2D Symbologies

PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, QR Code, Micro QR Code and Composite Symbologies

User Downloadable Fonts, Graphics or Format

Maximum 100MB

OPERATING & ENVIRONMENT CHARACTERISTICS

Electrical Requirements

Universal Auto-ranging Power Supply, 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)

Construction

Die-cast Aluminum (Base, Frame, Front Cover, Ribbon Spindle, Print Head Mechanism)

Side-cover

Bi-fold for Space Saving with Large Clear Window

Mounting Chassis

3 Fixtures for Flat or Incline Setting

Weight

33.0 lbs. (15.1kg)

Industrial Thermal Printer

CL4NX

*Please contact your local SATO office for availability.

SATO AUTO-ID (THAILAND) CO., LTD.

www.satothailand.co.th

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.

Simple-to-Operate

Plug-and-Play

All-in-One

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

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
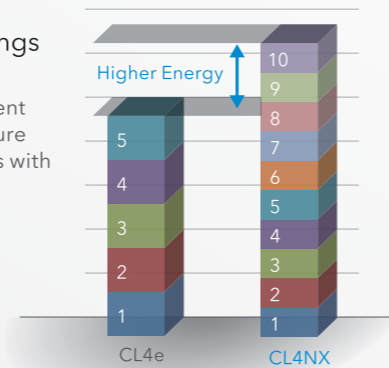- No additional accessories or setting change are required

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

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

Higher Energy

CL4e   CL4NX

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

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

Wi-Fi CERTIFIED   cisco Compatible
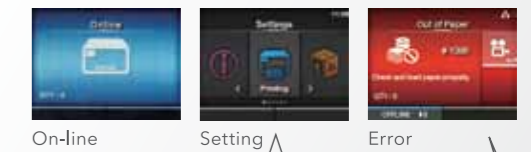
Standard Emulations Onboard

- 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

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

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

60°

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

Graphic 100 Item Print Times(s)   ▬ CL4NX   ▬ CL4e

dpi	CL4NX	CL4e
609dpi	185.0	
305dpi	90.0	226.9
203dpi	72.0	159.0