

# GENERAL SPECIFICATIONS / CL4NX



## PRINTER MODEL

CL4NX

## PRINT SPECIFICATIONS

### 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 (Continuous Mode)

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

### SATO Genuine Consumables

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

\* Please contact your local SATO office for availability

## 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), 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 SYBBOLOGIES 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 Symbolgies

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

### 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

## SATO VIETNAM SOLUTIONS CO., LTD.

### CORPORATE

6th Floor, Saigon Finance Center Building,

9 Dinh Tien Hoang, Da Kao Ward,

District 1, Ho Chi Minh City

Tel: (+84) (8) 3910 1350/1351

Fax: (+84) (8) 3910 1352

http://www.satovietnam.com

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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



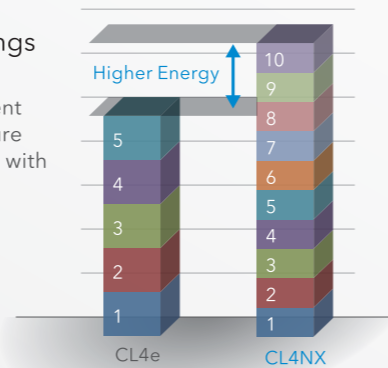
## Space Saving Design

- ▶ 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



## 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



## Standard Emulations Onboard

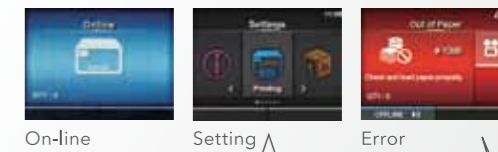
- Auto detect function allow users to Plug-and-Play operation when switching from SATO legacy models or other popular industrial barcode printers
- Support SBPL, SZPL, STCL, SDPL and SIPL

## 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



## 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



## 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

