L-50 Series CCD - Laser - 2D Imager



Highlights

- Sophisticated ergonomic design with an excellent price-toperformance ratio
- Ideal solution for a variety of applications in retail, warehousing, distribution, healthcare, transportation and logistics
- Available with CCD, laser or 2D Imager barcode scanner
- · Rapidly scans and decodes a wide variety of 1D or 2D barcodes
- USB (HID), RS232 or keyboard wedge interfaces available
- Replaceable interface cable
- Top panel design allows for customer customization such as logos
- Durable and reliable withstands drops of 5 feet to concrete, IP 42 rating
- · Available in black or white
- · Stand included for hands-free scanning
- · Backed by a two year warranty

E OPTICON

L-50 Product Specifications

OPERATING INDICATORS

CPU: ARM-926EJ-S 400 MHz VISUAL: 1 white LED NON-VISUAL: Buzzer

OPERATING KEYS

ENTRY OPTIONS: 1 scan key

COMMUNICATION

RS232: D-SUB9 pin (with external power supply) KEYBOARD WEDGE: PS /2 (with external power supply) USB: Version 2.0, HID/COM, USB-A connector

PHYSICAL

DIMENSIONS (W X H X D): 75.4 x 169.5 x 121.2 mm / 2.97 x 6.67 x 4.77 in

DIMENSIONS STAND (W X H X D): 120 x 294 x 180 mm / 4.72 x 11.57 x 7.09 in (excl. scanner)

WEIGHT BODY: Ca. 150 g / 5.3 oz (excl. cable) WEIGHT STAND: Ca. 335 g / 11.8 oz CASE: ABS/PC. Black or White

POWER

VOLTAGE REQUIREMENT: 6V ± 5% (Keyboard Wedge and RS232)

CURRENT CONSUMPTION: Max. 210mAh

DURABILITY

DUST AND MOISTURE: IP 42 DROP TEST: 1.5 m drop onto concrete surface

L-50C

SCAN METHOD: CCD liner imager sensor LIGHT SOURCE: Red LED (624 nm) SCAN RATE: 300 scan / sec (max) MINIMUM RESOLUTION: 0.1 mm (Code 39) MINIMUM PCS: 0.3 SCAN FROM LCD: Possible

DEPTH OF FIELD (RESOLUTION/MM) CODE 39:

40 - 590 mm (1.0), 15 - 210 mm (0.25), 35 - 80 mm (0.127)

SUPPORTED SYMBOLOGIES:

UPC-A, UPC-A Add-on, UPC-E, UPC-E Add-on, EAN-13, EAN-13 Add-on, EAN-8, EAN-8 Add-on, Code 39, Tri-Optic, NW-7 (Codabar), Industrial 2 of 5, Interleaved 2 of 5, Code 93, Code 128, GS1-128, S-Code, MSI/Plessey, UK/Plessey, TELEPEN, Matrix 2of5, Chinese Post Matrix 2of5, IATA, GS1 DataBar, GS1 DataBar Limited, GS1 DataBar Expanded, Code 11, Korean Postal Authority code

L-50R

SCAN METHOD: Bi-directional laser scanner

LIGHT SOURCE: Red laser diode (650 nm)

SCAN RATE: 100 scans / sec

MINIMUM RESOLUTION: 0.127 mm (Code 39) MINIMUM PCS: 0.45

DEPTH OF FIELD (RESOLUTION/MM) CODE 39:

40 - 500 mm (1.0), 20 - 200 mm (0.25), 30 - 70 mm (0.127)

SUPPORTED SYMBOLOGIES:

UPC-A, UPC-A Add-on, UPC-E, UPC-E Add-on, EAN-13, EAN-13 Add-on, EAN-8, EAN-8 Add-on, Code 39, Tri-Optic, NW-7 (Codabar), Industrial 2 of 5, Interleaved 2 of 5, Code 93, Code 128, GS1-128, S-Code, MSI/ Plessey, UK/Plessey, TELEPEN, Matrix 2of5, Chinese Post Matrix 2of5, IATA, GS1 DataBar, GS1 DataBar Limited, GS1 DataBar Expanded, PDF417, MicroP-DF417, Code 11, Korean Postal Authority code

L-50X

SCAN METHOD: CMOS area imager sensor LIGHT SOURCE: Red LED (617 nm) for illumination, Green LED (528 nm) for aiming

SCAN RATE: 60 fps (max)

MINIMUM RESOLUTION: 0.1 mm (Code 39), 0.169 mm (PDF/QR Code)

MINIMUM PCS: 0.2

MOTION TOLERANCE: 2 m / sec

SCAN FROM LCD: Possible DEPTH OF FIELD (RESOLUTION/MM):

Code 39: 35 - 235 mm (0.5) Code 39: 30 - 170 mm (0.25) Code 39: 50 - 90 mm (0.127) Code 128: 50 - 135 mm (0.2)

100% UPC: 30 - 160 mm (0.33) PDF417: 45 - 105 mm (0.169) QR Code: 55 - 80 mm (0.212) Data Matrix: 50 - 105 mm (0.254)

SUPPORTED SYMBOLOGIES:

BARCODE (1D): UPC-A, UPC-A Add-on, UPC-E, UPC-E Addon, EAN-13, EAN-13 Add-on, EAN-8, EAN-8 Add-on, JAN-8, JAN-13, Code 39, Tri-Optic, Codabar (NW-7), Industrial 2 of 5, Interleaved 2 of 5, S-Code, IATA, Code 93, Code 128, MSI/Plessey, UK/Plessey, TELEPEN, Matrix 2 of 5, Chinese Post Matrix 2 of 5, Code 11, Korean Postal Authority code, Postal Code

BARCODE (2D): PDF417, MicroPDF417, Codablock F, QR Code , Micro QR Code, DataMatrix (ECC 0 - 140 / ECC 200), MaxiCode (Modes 2 to 5), Aztec Code, Chinese Sensible Code

GS1/COMPOSITE: GS1 DataBar, GS1 DataBar Limited, GS1 DataBar Expanded, Composite GS1-DataBar, Composite GS1-128, Composite EAN, Composite UPC

REGULATORY & SAFETY

PRODUCT COMPLIANCE: CE, FCC, VCCI Class B, RoHS, IEC 62471-1:2006, EN55022, EN55024

ENCLOSED ITEMS

Power supply 6V/2A (for RS232 and Keyboard Wedge), Stand

MODELS

INTERFACE VERSIONS: RS232, Keyboard Wedge, USB



Top panel design allows for customer customization such as logos.

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H-427+ 203 DPI 7 IPS H-435+ 300 DPI 5 IPS



From the creators of EASYLABEL® the Tharo H-Plus Series is a robust industrial barcode label printer in the mid-level price range.







Color LCD and button panel for easy configuration

Multiple interface ports standard USB host port for standalone

Affordable high speed printing at up to 7 IPS

Simply the best value for your most demanding applications

THARO SYSTEMS, INC. 2866 NATIONWIDE PARKWAY P.O. BOX 798 BRUNSWICK, OHIO 44212-0798 USA 800-878-6833 · 330-273-4408 · FAX: 330-225-0099 · SALES@THARO.COM WWW.THARO.COM

	MODEL		H-427+	H-435+	
Print Seged Up to 78's (127mm/s) Up to 78's (127mm/s) Print Width K.A.G.97 (Ldmm) AL90" (Lohm) Print Length Min. 0.18'(Amm)*-Max. 100" (2540mm) Min. 0.18' (Mam) Stark MK Stark MK (SC PU Min. 0.18' (Mam) Min. 0.18' (Mam) Stark MK (SC PU Stark MK (SC PU Min. 0.18' (Mam) Min. 0.18' (Mam) Sensor Type Task Stark MK (SC PU Min. 0.18' (Mam) Sensor Type Continuous Com, gap Labels, Jack mark sensing and purched hole. Label length set by auto-sensing or programming Come Min. 1' (S Amm). Max. 46'' (118mm) Image: Sensor MK (SC PU) Media Tackses Min. 1' (S Amm). Max. 46'' (118mm) Image: Sensor MK (SC PU) Tackses Min. 1' (S Amm) Image damage (PL). Zabra Emulation*, Eltron Emulation* Image: Sensor MK (SC PU) Stark MK (M KORE) Min. 1' (S Amm) Image damage (PL). Zabra Emulation*, Eltron Emulation* Image: Sensor MK (SC PU) Stark MK (M KORE) Min. 1' (S Amm) Image damage (PL). Zabra Emulation*, Eltron Emulation* Image: Sensor MK (SC PU) Stark MK (SC PU) Min. 1' (S Amm) Image damage (PL). Zabra Emulation*, Eltron Emulation* Image: Sensor MK (SC PU) Stark MK (SC PU) Sensor MK (SC PU) Se	Print Method		Thermal Transfer / Direct Thermal		
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2.0 PDF417, Micro PDF417, Datamatrix, Maxicode, QR code, Micro QR code and Aztec code Code Pages Codepages 437, 850, 851, 852, 855, 857, 860, 861, 862, 863, 865, 866, 869, 737, Windows 1250, 1251, 1252, 1253, 122 Interfaces USB 2.0 (B-Type) Serial Port RS-232 (DB-9) IEEE 802.3 10/100 Base Tx Ethernet Port (RI-45) USB Host (A Type) Control Panel Control Panel Control key : FEED/PAUSE/CANCEL 1 Calibration button with dual color LED: READY/ERROR Control key : FEED/PAUSE/CANCEL 1 Calibration button at rear panel Real Time Clock Standard Power Auto-switching 100V-240V AC, 50Hz - 60Hz Environment Operating 41°F to 104°F (5°C to 40°C) Storage 41°F to 104°F (5°C to 40°C) Storage 10-90% non condensing Agency Approvals CE (EMC), FCC Class A, CB, UL, CUC Dimensions L20.15" (512mm) x H 11.45" (291mm) x W 10.78" (274mm) Weight 31 lbs. (15 Kg), excluding consumables and options Options Bluetooth External label rewinder Label dispenser + Internal rewinder			human readable check digit, Standard 2 of 5, Industrial 2 of 5, Logmars, Code 11, Code 49, Codablock		
Code Pages Codepages 437, 850, 851, 852, 855, 857, 860, 861, 862, 863, 866, 869, 737, Windows 1250, 1251, 1252, 1253, 125 Interfaces USB 2.0 (B-Type) Serial Port RS-322 (DB-9) IEEE 802.3 10/100 Base Tx Ethernet Port (RI-45) USB Hort (A Type) USB Hort (A Type) Control Panel Color TFT LCD with navigation buttons Power on/off button with dual color LED: READY/ERROR Control key : FEED/PAUSE/CANCEL 1 Calibration button at rear panel Standard Power Auto-switching 100V-240V AC, 50Hz - 60Hz Environment Operating 41°F to 104°F (5°C to 40°C) Humidity Goperating 10-90% non condensing Agency Approvals CE (EMC), FCC Class A, CB, UL, cUL, CCC Dimensions L 20.15° (512 kg), excluding consumables and options Weight 33 lbs. (15 kg), excluding consumables and options Options Bluetooth		2.0	PDF417, Micro PDF417, Datamatrix, Maxicode, OR code, Micro OR code and Aztec code		
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