

L-50 Series

CCD - Laser - 2D Imager



Highlights

- Sophisticated ergonomic design with an excellent price-to-performance 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

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, MicroPDF417, 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 Add-on, 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

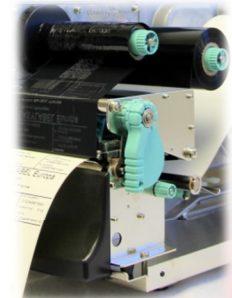
From the creators of **EASYLABEL®** the Tharo H-Plus Series is a robust industrial barcode label printer in the mid-level price range.



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

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MODEL		H-427+	H-435+
Print Method		Thermal Transfer / Direct Thermal	
Resolution		203 DPI (8 dots/mm)	300 DPI (12 dots/mm)
Print Speed		Up to 7IPS (177mm/s)	Up to 5IPS (127mm/s)
Print Width		4.09" (104mm)	4.09" (104mm)
Print Length		Min. 0.16"(4mm)**-Max. 100"(2540mm)	Min. 0.16"(4mm)**-Max. 45"(1143mm)
Processor		32-bit RISC CPU	
Memory	Flash	8MB Flash (4MB for user storage)	
	SDRAM	16MB	
Sensor Type		Adjustable reflective sensor and transmissive sensor, left aligned	
Media	Types	Continuous form, gap labels, black mark sensing and punched hole. Label length set by auto-sensing or programming	
	Width	Standard: Min. 1" (25.4mm) - Max. 4.64" (118mm)	
		Cutter: Max. 4.61" (117mm)	
	Dispenser / Rewind: Max. 4.64" (118mm)		
	Thickness	Min. 0.003" (0.06mm)-Max. 0.01" (0.25mm)	
Label Roll	Max. 8" (203.2mm) outer diameter		
Core	Min. 1.5" (38.1mm) diameter		
Ribbon	Types	Wax, Wax/Resin, Resin	
	Length	Max. 1476' (450m)	
	Width	Min. 1.18" (30mm) - Max. 4.33" (110mm)	
	Core	1" (25.4mm) inner diameter	
Printer Language		Tharo Programming Language (TPL), Zebra Emulation*, Eltron Emulation*	
Software	Design	FREE EASYLABEL® Start	
	Driver	XP/Vista/Windows 7-10, Mac, Linux	
Resident Fonts	Bitmap	6, 8, 10, 12, 14, 18, 24, 30, 16x26 and OCR A&B Bitmap fonts and single characters 90°, 180°, 270° rotatable	
	True Type	CG Triumvirate™ (Bold, Italic, Underline) 0°, 90°, 180°, 270° rotatable	
Downloadable Fonts	Bitmap	Bitmap fonts and single characters 90°, 180°, 270° rotatable	
	Asian Fonts	16x16, 24x24, Traditional Chinese (BIG-5), Simplified Chinese(GB2312), Japanese (S-JIS), Korean (KS-X1001), 90°, 180°, 270° rotatable, 8 times expandable	
	True Type	90°, 180°, 270° rotatable	
Bar Codes	1-D	Code 39, Code 93, EAN 8/13 (add on 2 & 5), UPC A/E (add on 2 & 5), I 2 of 5 & I 2 of 5 with Shipping Bearer Bars, Codabar, Code 128 (subset A, B, C), EAN 128, RPS 128, UCC 128, UCC/EAN-128 K-Mart, Random Weight, Post NET, ITF 14, China Postal Code, HIBC, MSI, Plessey, Telepen, FIM, GS1 DataBar, German Post Code, Planet 11 & 13 digit, Japanese Postnet, I 2 of 5 with human readable check digit, Standard 2 of 5, Industrial 2 of 5, Logmars, Code 11, Code 49, Codablock	
	2-D	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, 1254, 1255, 1257, Unicode UTF8, UT16BE, UTF16LE	
Interfaces	USB 2.0 (B-Type)		
	Serial Port RS-232 (DB-9)		
	IEEE 802.3 10/100 Base Tx Ethernet Port (RJ-45)		
	USB Host (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		
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	-4°F to 122°F (-20°C to 50°C)	
Humidity	Operating	30-85% non-condensing	
	Storage	10-90% non condensing	
Agency Approvals		CE (EMC), FCC Class A, CB, UL, cUL, CCC	
Dimensions		L 20.15" (512mm) x H 11.45" (291mm) x W 10.78" (274mm)	
Weight		33 lbs. (15 Kg), excluding consumables and options	
Options	Cutter		
	Parallel port adapter (Centronics female 36-pin)		
	Bluetooth		
	External label rewinder		
	Label dispenser + Internal rewinder		
*Specifications are subject to change without notice. All company and/or product names are trademarks and/or registered to their respective owners.			
**Minimum Print Length and Maximum Print Speed may vary for non-standard media types. Tharo provides free testing of all media types prior to purchase.			

Tharo H-Plus Series Industrial Printer

