

LH2 FIXED POSITION 2D IMAGER

FEATURES

- Reads all common 1D and 2D symbologies
- 32-Bit, 400 MHz microprocessor operation
- 1.3 million pixel, SXGA CMOS sensor
- Dual optics for a broad range of focal points
- Small footprint
- Omni-directional decoding
- 100% solid state design provides performance and reliability
- Laser targeting beam for ease of alignment
- Fully programmable



2D FIXED POSITION IMAGER

The LH2 fixed position imager is truly a revolutionary new 2D imager. The omni-directional decoding allows the reading of linear, stacked linear and matrix bar codes in any orientation.

These state-of-the-art imagers with superior 32-Bit, 400 MHz microprocessors provide a one-piece solution combining illumination, imaging and decoding in an extremely small package.

Dual optics used by the 1.3 million pixel SXGA (1280 x 1024) CMOS sensor provide exceptional depth of field. The near and far field cameras can be programmed to be switched ON and OFF in different combinations to tailor the reading capabilities of the LH2 to fit your applications.

The laser beam facilitates targeting. The adjustable targeting zone allows precise selection of specific bar codes in the field of view.

The LH2 can be customized with advanced logic through the internal embedded application engine. The embedded engine may be utilized to intelligently process or manipulate scanned data before it is sent to an application.

Advanced functions such as Barcode Readability Index provide quantitative measures for optimizing imager settings to realize maximum performance.

The LH2 is rugged and built to last. These 100% solid state imagers use proven CMOS technology, assuring continuing performance and high reliability. It is designed for rough handling in tough environments and has a small footprint to fit into tight spaces.

The LH2 is available in standard RS232 interface. Custom mounting options, cable lengths, connector types and pinouts are available.

"I recommend
Opticon products
because they
hold up really
well over time."

OUR PROMISE

At Opticon, our mission is to provide bar code scanning products that are easy to use, built-to-last, fit your exact requirements and are supported by an experienced, responsive team of professionals. We believe that accomplishing our mission is dependent upon operating with a set of important core values—Passion, People, Creativity and Teamwork. All our employees work to understand and apply these values in everything that they do.

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OPTICAL

Field of View	21° horizontal x 15° vertical (approx)
Optical Resolution	1024 x 1280
Bar Code Density	
Linear	0.11 mm (4.2 mil) minimum
2-D	0.15 mm (5.8 mil) minimum
Min PCS Value	0.35
Pitch	±60°
Skew	±60°
Rotation	±180°

ELECTRICAL

Voltage	2.5 to 5.5 VDC
Current	
Operating	140 mA
Standby	3 mA
Maximum	310 mA
Interface	RS232

ENVIRONMENTAL

Temperature	
Operating	0° to +40° C (+32° to +104° F)
Storage	-20° to +60° C (-4° to +140° F)
Humidity	5 - 95% RH non-condensing
Shock	Withstands multiple drops to concrete of 2 m (6.56 ft)
Regulatory	FCC Class B, CE Certified
Targeting Beam	Class IIA Visible Laser Diode (630 nm)

PHYSICAL

Case Material	PC/ABS Plastic
Dimension (L x W x H)	118 x 51 x 40 mm (4.6 x 2 x 1.6 in)
Weight	136 g (4.8 oz)
Cable Length	
RS232	1.8 m (6 ft) straight

SYBLOGIES

2D BAR CODES

MaxiCode, PDF417, Data Matix, QR Code, MicroPDF, GoCode, UCC RSS Composite, Aztec Code

LINEAR BAR CODES

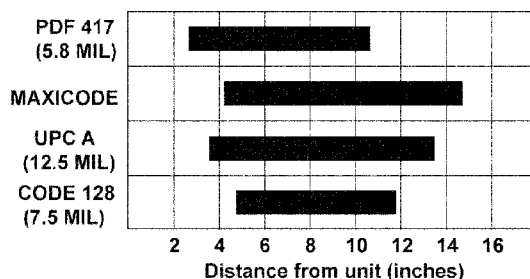
Code 39, Code 128, UPC/EAN/JAN, I 2 of 5, Codabar (NW7), Code 93, UCC RSS, POSTNET, PLANET, Japanese Post, Australia Post

PINOUTS

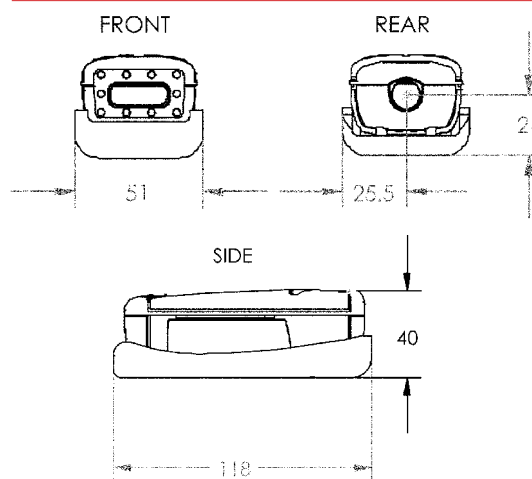
9 Pin Female mini-DIN Connector

Pin	Function
1	Trigger
2	SD
3	RD
5	Signal Ground
9	+5 VDC

READING RANGE (TYPICAL)



GENERAL MECHANICAL LAYOUT



All dimensions given in mm

ORDERING INFORMATION

Part No.	Description
LH2RRIS-056	LH2, RS232 Interface

* Additional industry standard configuration mounting brackets available.

WARRANTY

Opticon LH2 fixed position imagers are warranted for a period of five (5) years, including parts and workmanship. Visit our web site for details.

TECHNICAL SUPPORT / SALES

Opticon's experienced, well trained technical support team is available to answer questions and assist you in every way possible in support of our products. Call today to find out how the imager can be adapted to your design: 800.636.0090, or visit our web site at www.opticonUSA.com.

25-DLH2R101-01

Specifications subject to change without prior notice.

CUSTOM-BUILT. BUILT TO LAST.



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