



Industrial Handheld Area Imager Bar Code Reader with Bluetooth® Wireless Technology

The Lynx BT reader completes Datalogic Scanning's industrial product portfolio by offering a cordless solution for 2D applications. Featuring Bluetooth® wireless communications the reader can transmit data to the host through its base/charger (OM-1000) as well as any commercial or embedded Bluetooth® v1.2 compliant device.

Featuring omnidirectional reading on a wide range of symbologies, the Lynx BT reader decodes the most common 1D and 2D codes including stacked and postal codes no matter how the code is oriented. It is also able to capture signatures or images of objects such as shipping damage documentation. To increase efficiency, it can also decode all the codes found in the captured image. The captured image can be processed on board, or downloaded in different formats (.bmp, .jpg, .tif) for image processing on the host side. Up to 4 acquisition options allow image manipulation: zoom (from 20% to

200%), contrast, brightness ($\pm 100\%$) and windowing.

Aiming at the image to be captured is easy and intuitive, with the double-click trigger that enables the Datalogic 5-dot aimer, marking the four corners and center of the reading area.

The base station/charger is equipped with a multi-standard interface for connection to the host via USB (COM and Wedge Emulation), RS-232 or Wedge Emulation. VisualSetup™, the software tool included in the package, allows easy configuration of all the parameters to personalize the reader for any application through a RS-232 interface, as well as providing a quick view of the downloaded images.



Features

- Optics available in Standard Range and High Density
- Bluetooth Wireless Technology with up to 10 m / 33 ft range
- Datalogic's instinctive 5-dot aimer
- Support 1D, stacked and 2D codes, postal codes and image captures
- Standard multi-interface: USB, RS232, Wedge AT IBM (OM-1000)
- Water and particulate sealing rating: IP51
- Drop resistance to 1.8 m / 5.9 ft



Specifications

CORDLESS COMMUNICATIONS

BLUETOOTH WIRELESS TECHNOLOGY

Protocol: Bluetooth 1.2 Certified Class 2
Radio Frequency: 2.40 to 2.48 GHz
Radio Range (Open Air): 10.0 m / 32.8 ft

DECODING CAPABILITY

1D / LINEAR CODES

Autodiscriminates all standard 1D codes including GS1 Databar™ linear codes

2D CODES

Data Matrix; MaxiCode; QR Code

POSTAL CODES

Australian Post; China Post; Japanese Post; KIX Post; Planet Code; Postnet; Royal Mail Code (RM4SCC)

STACKED CODES

EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MicroPDF417; PDF417; UPC A/E Composites

ELECTRICAL

BATTERY

Battery Type: Lithium-Ion, 2100 mAh
Charge Time: External Power; 4 Hours
Reads per Charge: 10,000

CRADLE INDICATOR LEDS

Battery Charging (Red); Charge Completed (Green); Power/Data (Yellow)

CURRENT

Operating (Typical): 110 mA, Charging: 580 mA

INPUT VOLTAGE

12 VDC

ENVIRONMENTAL

AMBIENT LIGHT

0 - 100,000 lux

DROP RESISTANCE

Withstands repeated drops from 1.8 m / 5.9 ft onto a concrete surface

HUMIDITY (NON-CONDENSING)

0 - 95%

PARTICULATE AND WATER SEALING

IP51

TEMPERATURE

Operating: 0 to 55 °C / 32 to 131 °F
Storage/Transport: -20 to 70 °C / -4 to 158 °F

INTERFACES

Keyboard Wedge; RS-232; USB

PHYSICAL CHARACTERISTICS

COLORS AVAILABLE

Blue/Black

DIMENSIONS

20.3 x 11.7 x 6.9 cm / 8.0 x 4.6 x 2.7 in

WEIGHT

335.0 g / 11.8 oz

READING PERFORMANCE

IMAGE CAPTURE

320 x 240 CIF; 8 Bit Greyscale; 640 x 480 VGA; 8 Bit Greyscale; Graphic Formats: BMP, JPEG, TIFF

IMAGER SENSOR

2D CMOS Array: 640 x 480 pixels

LIGHT SOURCE

Aiming: 630 - 680 nm VLD; Illumination: LED Array 630 - 670 nm

PRINT CONTRAST RATIO (MINIMUM)

23%

READING ANGLE

Pitch: +/- 35°; Roll (Tilt): 360°; Skew (Yaw): +/- 40°

READING INDICATORS

Beeper (Adjustable Tone); Good Read LED

RESOLUTION (MAXIMUM)

1D Linear: 0.130 mm / 5 mils; Data Matrix: 0.168 mm / 6.6 mils

READING RANGES

TYPICAL DEPTH OF FIELD

Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.

LYNX BT432

5 mils: 8.0 to 15.0 cm / 3.1 to 5.9 in

6.6 mils PDF: 7.0 to 19.0 cm / 2.7 to 7.5 in

10 mils Data Matrix: 7.5 to 16.5 cm / 2.9 to 6.5 in

10 mils PDF: 4.5 to 24.0 cm / 1.7 to 9.5 in

13 mils: 7.5 to 24.5 cm / 2.9 to 9.6 in

15 mils Data Matrix: 6.0 to 22.0 cm / 2.3 to 8.7 in

20 mils: 8.0 to 33.0 cm / 3.1 to 13.0 in

20 mils Postnet: 11.5 to 15.0 cm / 4.5 to 5.9 in

LYNX BT432 E

3 mils: 5.0 to 7.5 cm / 1.9 to 2.9 in

3 mils PDF: 5.0 to 8.0 cm / 1.9 to 3.1 in

5 mils: 4.0 to 9.5 cm / 1.6 to 3.7 in

5 mils Data Matrix: 5.0 to 7.5 cm / 1.9 to 2.9 in

10 mils Data Matrix: 4.5 to 10.5 cm / 1.7 to 4.1 in

10 mils PDF: 4.0 to 13.0 cm / 1.6 to 5.1 in

SAFETY & REGULATORY

AGENCY APPROVALS

The product meets necessary safety and regulatory approvals for its intended use.

The Quick Reference Guide for this product can be referred to for a complete list of certifications.

Complies to China RoHS; Complies to EU RoHS

Caution Laser Radiation - Do not stare into beam; IEC 60825 Class 2

IEC 60825 Class 1 LED

ENVIRONMENTAL COMPLIANCE

LASER CLASSIFICATION

LED CLASSIFICATION

WARRANTY

2-Year Factory Warranty

Batteries/Battery Chargers

- 90ACC1901 Battery Charger, Li-Ion (C-1000)



Cases/Holsters

- 90ACC1860 Protective Case/Belt Coupler
- 90ACC1864 Universal Holster (HLS-1000)



Mounts/Stands

- 90ACC1790 Desk/Wall Holder
- 90ACC1863 Hands Free Stand (STD-1000)

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