



General Description

The Lynx™ BT432 is the natural evolution of the consolidated DATALOGIC experience in 2D-CMOS readers. It frees the operator from cable entanglement thanks to Bluetooth® radio communication. In fact, in most shop floor, warehouse management and parcel sorting applications as well as in postal environments, the operator needs to move freely around the work place without having to worry about a twisted and/or entangled cable. The Lynx™ BT432, compliant and certified for the Bluetooth® 1.2 standard, is the right answer for this need.

All models (standard and high resolution) of the Lynx family perform "omni-directional" reading on a wide range of symbologies, from the most common 1D and 2D codes to stacked and postal codes, improving productivity and efficiency in any application. In fact, with the Lynx™, the user captures the whole image of the object to be identified no matter how it is orientated, thus avoiding any alignment constraint between the reader and the symbol to be read. The Lynx™ BT432 also decodes all the codes found in the captured image, increasing efficiency even more.

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 (± 100 %) and windowing. Aiming at the image to be captured is really easy and intuitive thanks to the "double-click" trigger for Point & Read, and to the "five dot pointer" that marks the four corners and center of the reading area.

Bluetooth® communication can be managed through its base/charger (OM-1000) as well as any commercial or embedded Bluetooth® device, depending on the customer's needs.

The Base/charger is equipped with a multi-standard interface for connection to the host via USB (COM and wedge emulation), RS232 or Wedge emulation.

Finally, the VisualSetup™ software tool included in the Lynx™ package allows easy configuration of all the parameters to personalize the reader for any application through a RS232 interface, as well as providing a quick view of the downloaded images.

Features

- Bluetooth® 1.2 certified (Serial Port Profile)
- > Omni-directional scanning
- Supports most 1D, 2D, and Postal code symbologies
- > Image capture
- > Instinctive pointing
- Standard multi-interface: USB, RS232, Wedge AT IBM (OM-1000)

Applications

- > Shop floor:
 - WIP
 - Tracking
- Quality control
- > Document handling:
 - Front office / Postal applications
 - Shipping and Receiving



Specifications

BLUETOOTH® RADIO COMMUNICATION

R&TTE and Bluetooth® 1.2 certifiied, 802.11b co-existent CONFORMITY

RADIO FREQUENCY 2.4 - 2.48 GHz SPP (Serial Port Profile) COMMUNICATION EFFECTIVE RADIATED POWER A 4 dBm for Power Class 2

Up to 921 Kbps TRANSMISSION SPEED COVERAGE AREA 10 m in typical environments

ELECTRICAL CHARACTERISTICS

Direct plug-in 12 VDC (OM-1000) POWER SUPPLY

BATTERY TYPE Li-ION batteries RECHARGE TIME 4 hours max

AUTONOMY > 10,000 reading and transmission cycles

PERFORMANCE

Visible laser diode @ 650 nm POINTER MAX. RESOLUTION 1D: 5 mils: Datamatrix 6.6 mils

READING FIELD 21.8° (H) x 16.7° (V): Lynx BT432; 20° (H) x 15° (V): Lynx BT432-E

PRINT CONTRAST (min.) PCS=23%

READING ANGLE ±40° Skew Pitch $\pm 35^{\circ}$

Tilt 360°

SENSOR 640 x 480 pixel 2D CMOS array

640x480 VGA (8 bit gray scale); 320x240 CIF (8 bit gray scale) RS232, Wedge AT IBM; USB IMAGE & SIGNATURE CAPTURE

INTERFACES

BAR CODES

Interleaved 2/5, Code 39, Code 128, EAN 128, Code 32, 1D codes

Code 93, UPC/EAN/JAN,

Codabar, RSS

2D codes PDF417, DataMatrix (ECC200),

QR, Composite Code, MicroPDF,

MacroPDF, Maxicode POSTNET, PLANET, Japan Postal codes

Post, Australia Post, KIX Code, Royal Mail Code

(RM4SCC)

Laser Class Class 2 (IEC 825-1 and CDRH)

MECHANICAL CHARACTERISTICS

DIMENSIONS 203 x 117.2 x 68.9 mm

WEIGHT 335 g

ENVIRONMENT

AMBIENT LIGHT Up to 100,000 lux

CONDITIONS

OPERATING TEMP. 0 to 50 °C -20 to 70 °C STORAGE TEMP.

0 to 95% non condensing HUMIDITY DROP RESISTANCE Multiple falls from 1.8 m

Reading Characteristics

LYNX™ BT432 1D CODES READING FIELD 80 to 150 mm Code 39 5 mils Code 39 20 mils 80 to 330 mm EAN13 13 mils 75 to 245 mm LYNX™ BT432 2D CODES READING FIELD

POSTNET 20 mils PDF417 6.6 mils 115 to 300 mm 70 to 190 mm PDF417 10 mils 45 to 240 mm Datamatrix 10 mils 75 to 165 mm Datamatrix 15 mils 60 to 220 mm

LYNX™ BT432-E 1D CODES READING FIELD 50 to 75 mm

Code 39 5 mils

40 to 95 mm READING FIELD

LYNX™ BT432-E 2D CODES PDF417 3 mils PDF417 10 mils 40 to 130 mm Datamatrix 5 mils 50 to 75 mm Datamatrix 10 mils 45 to 105 mm

Connectivity



Accessories



Protective Case



Universal Holster



Desk/Wall Holder

Stand

Robust and compact, the stand makes it possible to use the reader in a hands-free mode.

Universal Holster

It is designed to offer a robust and handy way to attach the readers to desktops, work-tables, forklift trucks, and other types of supports.

Protective case -Belt coupler

This permits the reader to be carried on a belt when not in use and protects it against drops.

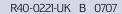
Desk/Wall Holder

The Desk/Wall Holder provides ease of use and flexibility in many environments where workspace is limited



Product and Company names and logos referenced may be either trademarks or registered trademarks of their respective companies. We reserve the right to make modifications and improvements.





Datalogic Scanning, Inc. Toll free: 1800 695 5700 International: 1541 683 5700 E-mail us at: scanning@datalogic.com www.scanning.datalogic.com