



Hand-Held Readers

## 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 ( $\pm 100\%$ ) 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

|                          |                                                         |
|--------------------------|---------------------------------------------------------|
| CONFORMITY               | R&TTE and Bluetooth® 1.2 certified, 802.11b co-existent |
| RADIO FREQUENCY          | 2.4 - 2.48 GHz                                          |
| COMMUNICATION            | SPP (Serial Port Profile)                               |
| EFFECTIVE RADIATED POWER | A 4 dBm for Power Class 2                               |
| TRANSMISSION SPEED       | Up to 921 Kbps                                          |
| COVERAGE AREA            | 10 m in typical environments                            |

### ELECTRICAL CHARACTERISTICS

|               |                                          |
|---------------|------------------------------------------|
| POWER SUPPLY  | Direct plug-in 12 VDC (OM-1000)          |
| BATTERY TYPE  | Li-ION batteries                         |
| RECHARGE TIME | 4 hours max.                             |
| AUTONOMY      | > 10,000 reading and transmission cycles |

### PERFORMANCE

|                       |                                                                    |
|-----------------------|--------------------------------------------------------------------|
| POINTER               | Visible laser diode @ 650 nm                                       |
| 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         | Skew ±40°<br>Pitch ±35°<br>Tilt 360°                               |

|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| SENSOR                    | 640 x 480 pixel 2D CMOS array                                  |
| IMAGE & SIGNATURE CAPTURE | 640x480 VGA (8 bit gray scale); 320x240 CIF (8 bit gray scale) |
| INTERFACES                | RS232, Wedge AT IBM; USB                                       |

### BAR CODES

|              |                                                                                          |
|--------------|------------------------------------------------------------------------------------------|
| 1D codes     | Interleaved 2/5, Code 39, Code 128, EAN 128, Code 32, Code 93, UPC/EAN/JAN, Codabar, RSS |
| 2D codes     | PDF417, DataMatrix (ECC200), QR, Composite Code, MicroPDF, MacroPDF, Maxicode            |
| Postal codes | POSTNET, PLANET, Japan 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 (without cable) |

### ENVIRONMENT

|                          |                           |
|--------------------------|---------------------------|
| AMBIENT LIGHT CONDITIONS | Up to 100,000 lux         |
| OPERATING TEMP.          | 0 to 50 °C                |
| STORAGE TEMP.            | -20 to 70 °C              |
| HUMIDITY                 | 0 to 95% non condensing   |
| DROP RESISTANCE          | Multiple falls from 1.8 m |

## Reading Characteristics

| LYNX™ BT432 | 1D CODES           | READING FIELD |
|-------------|--------------------|---------------|
|             | Code 39 5 mils     | 80 to 150 mm  |
|             | Code 39 20 mils    | 80 to 330 mm  |
|             | EAN13 13 mils      | 75 to 245 mm  |
| LYNX™ BT432 | 2D CODES           | READING FIELD |
|             | POSTNET 20 mils    | 115 to 300 mm |
|             | PDF417 6.6 mils    | 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 |
|---------------|--------------------|---------------|
|               | Code 39 3 mils     | 50 to 75 mm   |
|               | Code 39 5 mils     | 40 to 95 mm   |
| LYNX™ BT432-E | 2D CODES           | READING FIELD |
|               | PDF417 3 mils      | 50 to 80 mm   |
|               | PDF417 10 mils     | 40 to 130 mm  |
|               | Datamatrix 5 mils  | 50 to 75 mm   |
|               | Datamatrix 10 mils | 45 to 105 mm  |

## Connectivity



## Accessories



Stand



Universal Holster



Protective Case



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 work-space is limited.