

Bluetooth® Wireless Technology 2D Reader



General Description

The Lynx™ BT432 handheld reader is the natural evolution of the consolidated Datalogic Scanning experience in 2D-CMOS readers. It frees the operator from cable entanglement thanks to Bluetooth® wireless technology 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 reader, compliant and certified for the Bluetooth® wireless technology 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™ BT432 reader, 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 reader 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 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® wireless technology can be managed through its base/charger (OM-1000) as well as any commercial or embedded 1.2 standard 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), RS-232 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 RS-232 interface, as well as providing a quick view of the downloaded images.

Features

- > Bluetooth® wireless technology 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, RS-232, Wedge AT IBM (OM-1000)

Applications

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



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Specifications

BLUETOOTH® RADIO COMMUNICATION

CONFORMITY	R&TTE and Bluetooth® wireless technology 1.2 certified, 802.11b co-existent
RADIO FREQUENCY COMMUNICATION	2.4 - 2.48 GHz 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	Lithium-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° Pitch ±35° Tilt 360°

SENSOR

IMAGE & SIGNATURE CAPTURE	640 x 480 pixel 2D CMOS array
INTERFACES	640 x 480 VGA (8 bit gray scale); 320 x 240 CIF (8 bit gray scale) RS-232, 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, GS1 DataBar™ (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 / 8 x 4.6 x 2.7 in
WEIGHT	335 g / 11.8 oz
ENVIRONMENT	
AMBIENT LIGHT CONDITIONS	Up to 100,000 lux
OPERATING TEMP.	0 to 50 °C / 32 to 122 °F
STORAGE TEMP.	-20 to 70 °C / -4 to 158 °F
HUMIDITY	0 to 95% non condensing
DROP RESISTANCE	Multiple falls from 1.8 m / 5.9 ft

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

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



Desk/Wall Holder

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.



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Datalogic Scanning, Inc.
E-mail us at: scanning@datalogic.com
www.scanning.datalogic.com



R40-0221-UK C 1107