



Hand-Held Readers

General Description

Datalogic, the leading European manufacturer of Hand-Held CCD and Laser readers, is continuously investing in 2D technology. The latest addition is the Lynx D432, available in two new models for standard and high resolution codes.

The Lynx™ family performs "omnidirectional" reading on a wide range of symbolologies 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. Furthermore, the Lynx™ 432 can be used for "image-based" applications like signature capture, OCR and so on.

The captured image can be processed on board, or downloaded in different formats (.bmp, .jpg, .tif) for image processing on the host side. Also, the new image capture function allows complete image management. 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.

All models are equipped with a multi-standard interface for connection to the host via USB (COM and wedge emulation), RS232 or Wedge emulation interface.

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

Features

- > Omni directional scanning
- > Supports most popular 1D, 2D, Stacked and Postal codes
- > Advanced image capture
- > Standard and high resolution models
- > Intuitive aiming
- > Multi-standard interface: USB RS232, Wedge AT IBM
- > Robustness: 1.8 drop resistance
- > Visual Setup Software Tool included in the package
- > Sunrise 2005 compliant

Applications

- > Shop floor:
 - WIP
 - Tracking
 - Quality Control
- > Document handling:
 - Front-Desk/Postal applications
 - Shipping & Receiving

Specifications

ELECTRICAL CHARACTERISTICS

POWER SUPPLY 10 to 30 VDC
 CONSUMPTION 110 mA @ 12V (Stand-by)
 245 mA @ 12V (Typical)
 305 mA @ 10V (Peak current)

OPTICAL CHARACTERISTICS

SENSOR 640 x 480 pixel element, 2D CMOS Array
 IMAGE AND 640 x 480 VGA (8 bit gray scale)
 SIGNATURE CAPTURE 320 x 240 CIF (8 bit gray scale)
 AIMING Visible laser diode @ 650 nm

MECHANICAL CHARACTERISTICS

DIMENSIONS 203 x 117.2 x 68.9 mm
 WEIGHT 265 g (without cable)

PERFORMANCE

MAX. RESOLUTION Linear: 4 mils ; Datamatrix 6.6 mils (Lynx™ D432)
 Linear: 2 mils; datamatrix: 4 mils (Lynx™ D432 E)
 READING FIELD 21.8° (H) x 16.7° (V): Lynx™ D432
 20° (H) x 15° (V): Lynx™ D432 E
 PRINT CONTRAST VALUE (min.) PCS=23% (Lynx™ D432); PCS=27% (Lynx™ D432 E)
 READING ANGLE
 Skew ±40° (Lynx D432); ±60° (Lynx™ D432 E)
 Pitch ±35° (Lynx™ D432); ±50° (Lynx™ D432 E)
 Tilt 360°

GRAPHIC FORMATS .bmp, .jpg, .tif;
 grey levels: 256, 16, 2

CODES

1D Codes Interleaved 2 of 5, Code 39,
 Code 128, EAN 128,
 Code 32, Code 93,
 UPC/EAN/JAN, Codabar
 2D Codes PDF417,
 DataMatrix , QR,
 Postal POSTNET, PLANET, Japan Post,
 Australian Post, KIX Code,
 Royal Mail Code (RM4SCC)

INTERFACES

RS232, Wedge AT IBM; USB
 (COM and Wedge
 emulation)

LASER CLASSIFICATION Class 2 (IEC 825-1 and CDRH)

ENVIRONMENT

AMBIENT LIGHT 0 to 100,000 lux
 IMMUNITY
 OPERATING TEMP. 0 to 55 °C
 STORAGE TEMP. -20 to 70 °C
 HUMIDITY 0 to 95% non condensing
 DROP RESISTANCE 1.8 m multiple drops

Reading Characteristics

| LYNX™ D432 | 1D CODE | DEPTH OF FIELD |
|------------|-----------------|----------------|
| | Code39 5 mils | 80 to 150 mm |
| | Code39 20 mils | 80 to 330 mm |
| | EAN13 13 mils | 75 to 245 mm |
| LYNX™ D432 | 2D CODE | DEPTH OF FIELD |
| | POSTNET 20 mils | 115 to 300 mm |
| | PDF417 5 mils | 85 to 155 mm |
| | PDF417 6.6 mils | 70 to 190 mm |

| LYNX™ D432 | 2D CODE (cont.) | DEPTH OF FIELD |
|------------|---------------------|----------------|
| | PDF417 10 mils | 45 to 240 mm |
| | Datamatrix 7.5 mils | 90 to 130 mm |
| | Datamatrix 10 mils | 75 to 165 mm |
| | Datamatrix 15 mils | 60 to 220 mm |

| LYNX™ D432E | 1D CODE | DEPTH OF FIELD |
|-------------|--------------------|----------------|
| | Code 39 3 mils | 50 to 75 mm |
| | Code 39 5 mils | 40 to 95 mm |
| LYNX™ D432E | 2D CODE | DEPTH OF 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 |

Accessories



Stand



Universal Holster

Stand

Robust and compact, the stand makes it possible to use the reader in a hand-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 protect it against drops.

Desk/Wall Holder

The Desk/Wall Holder provides ease of use and flexibility in many environments where work-space is limited.



Protective case



Desk/Wall Holder