# Lynx
## *Hand-Held 2D Reader*

## FEATURES

- Omni-directional scanning
- Support most popular 1D, 2D and Postal codes
- Autodiscrimination of linear and 2D codes
- Image capture
- Intuitive aiming
- Multi-standard interface

## APPLICATIONS

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

## GENERAL DESCRIPTION

Datalogic, the leading European manufacturer of Hand-Held CCD and Laser readers, further improves its offer with the introduction of a state-of-the-art and powerful "bi-dimensional" reader: the **Lynx™**.

Based on a matricial CCD sensor (640 x 480 pixel), the **Lynx™** allows "omnidirectional" reading of the most common 1D symbologies as well as a wide variety of 2D and stacked codes. Furthermore, the **Lynx™** can be used for "image-based" applications like signature capture, OCR and so on. 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/image to be read/captured.

The captured image can be processed on board for 1D or 2D symbologies, or downloaded in different formats for image processing on the host side.

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 mark the four corners and center of the reading area.

The **Lynx™** is available in two models that are specifically addressed to standard (D302) and high resolution (D302 E) codes. Both models are equipped with a multi-standard interface to allow connection to the host via RS232 or wedge emulation interface.

The software tool "visual setup" included in the **Lynx™** package allows easy configuration of all the parameters for personalizing the reader to the application, as well as a quick view of the downloaded images.

The **Lynx™** is suitable for applications in even the most demanding environments thanks to its rugged case and "Industrial" electromagnetic protection. The **Lynx's™** Firmware can be in-field updated for easy maintenance and investment protection.

**DATALOGIC**

# MODELS AND ACCESSORIES

| MODEL | DESCRIPTION | | | ORDER NO. |
|---|---|---|---|---|
| LYNX™ D302 | 2D Hand-Held reader | | | 901601010 |
| LYNX™ D302 E | 2D Hand-Held reader for High Resolution codes | | | 901601020 |
| **ACCESSORIES** | | **COILED CAB.** | **STRAIGHT CAB.** | |
| CAB362 | RS232 cable, 9-pin female connector (DCE config.) | ● | | 90A051330 |
| CAB363* | RS232 cable, 25-pin female connector (DCE config.) | ● | | 90A051340 |
| CAB364* | RS232 cable, 25-pin male connector (DTE config.) | ● | | 90A051350 |
| CAB327 | RS232 cable, 9-pin female connector (DCE config.) | | ● | 90G001070 |
| CAB328* | RS232 cable, 25-pin female connector cable (DCE config.) | | ● | 90G001080 |
| CAB320* | RS232 cable, 25-pin male connector (DTE config.) | | ● | 90G001000 |
| CAB390 | USB type A external power supply | | ● | 90A051730 |
| CAB391 | IBM/PS2 wedge minidin external power supply | ● | | 90A051740 |
| Operator's Manual | Software manual for Lynx™ series | | | included |
| PG110 (110 Vac) | Power supply unit 12 VDC | | | B9751057 |
| PG220 (220 Vac) | Power supply unit 12 VDC | | | B9751027 |

*Power supply available on pin 9 or 25 of the connector.*

# SPECIFICATIONS

| | |
|---|---|
| POWER SUPPLY | 10 to 30 VDC |
| CONSUMPTION | 200 mA @ 12VDC (stand-by) |
| | 300 mA @ 12 VDC (typical) |
| | 440 mA @ 12 VDC (peak current) |
| AIMING | Visible laser diode @ 650 nm |
| MAX. RESOLUTION | |
| D302 | linear: 5 mils; datamatrix: 10 mils |
| D302 E | linear: 3 mils; datamatrix: 5 mils |
| ANGULAR FIELD OF VIEW | 28.6° (H) x 21.9° (V): D302 model |
| | 21.8° (H) x 16.2° (V): D302 E model |
| PRINT CONTRAST VALUE (min.) | PCS=23% (D302); PCS=45% (D302 E) |
| READING ANGLE | |
| Skew | ±40° (D302); ±60° (D302 E) |
| Pitch | ±35° (D302); ±50° (D302 E) |
| Tilt | 360° (D302/D302 E) |
| SENSOR | 640 X 480 element, 2D CCD array |
| LASER CLASSIFICATION | Class 2 (IEC 825-1 and CDRH) |
| BAR CODES | |
| 1D Codes | 2/5 Interleaved, Code 39, Code 128, Code 93, UPC/EAN/JAN, Codabar, RSS, CODE 39 Full ASCII, EAN 128, Composite Codes |

| | |
|---|---|
| 2D Codes | PDF417, MaxiCode, DataMatrix (ECC200), QR, AZTEC, MICRO PDF 417, MACRO PDF 417 |
| Postal | Postnet, Planet, Australian, Japanese, KIX CODE, ROYAL MAIL |
| IMAGE AND | 640 x 480 VGA (8 bit gray scale) |
| SIGNATURE CAPTURE | 320 x 240 CIF (8 bit gray scale) |
| INTERFACES | RS232, Wedge AT IBM; USB |
| DIMENSIONS | 203 x 117.2 x 68.9 mm |
| WEIGHT | 265 g (without cable) |
| AMBIENT LIGHT IMMUNITY | 0 to 100,000 lux (D302) |
| OPERATING TEMPERATURE | 0 to 40 °C |
| STORAGE TEMPERATURE | -20 to 70 °C |
| HUMIDITY | 0 to 95% non condensing |
| DROP RESISTANCE | IEC 68-2-32 Test ED |

LASER LIGHT • DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT
MAX. OUTPUT RADIATION: 0,25 mW • EMITTED WAVE LENGTH: 640–800 nm
TO IEC 825-1 (1993)
LASERSTRAHLUNG • NICHT IN DEN STRAHL BLICKEN
LASER KLASSE 2
MAX. AUSGANGSLEISTUNG: 0,25 mW • WELLENLÄNGE: 640–800 nm
EN60825-1 1994

# READING CHARACTERISTICS

| Lynx™ D302 | 1D CODE | DEPTH OF FIELD | Lynx™ D302 E | 1D CODE | DEPTH OF FIELD |
|---|---|---|---|---|---|
| | Code 39 5 mils | 75 to 105 mm | | Code 39 5 mils | 35 to 70 mm |
| | Code 39 20 mils | 75 to 325 mm | | | |
| | EAN13 13 mils | 45 to 115 mm | | | |
| **Lynx™ D302** | **2D CODE** | **DEPTH OF FIELD** | **Lynx™ D302 E** | **2D CODE** | **DEPTH OF FIELD** |
| | Postnet 20 mils | 75 to 325 mm | | PDF417 5 mils | 40 to 75 mm |
| | PDF417 6.6 mils | 45 to 160 mm | | PDF417 10 mils | 45 to 100 mm |
| | PDF417 10 mils | 35 to 215 mm | | QR 5 mils | 45 to 60 mm |
| | QR 10 mils | 55 to 105 mm | | QR 10 mils | 35 to 85 mm |
| | QR 15 mils | 45 to 175 mm | | Datamatrix 5 mils | 45 to 60 mm |
| | Datamatrix 10 mils | 60 to 120 mm | | Datamatrix 10 mils | 35 to 85 mm |
| | Datamatrix 15 mils | 45 to 165 mm | | | |

## DATALOGIC
code e-volution

CE  CSQ