



General Description

Datalogic's latest investment in 2D technology has produced the Lynx™ D402, which takes full advantage of the new Datalogic CMOS Imaging Camera.

The Lynx™ family provides "omnidirectional" reading of a wide range of symbologies: the most common 1D, 2D, stacked, RSS, CS and Postal codes. Furthermore, the Lynx™ can be used for "image-based" applications like signature capture, OCR and so on. The Lynx™ allows the user to capture the entire image of the object to be identified no matter how it is orientated, thus avoiding any alignment constraint between the reader and the image to be 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 the "five dot pointer" that mark the four corners and center of the reading area.

The Lynx™ is available with three optics. The new Lynx™ D402, CMOS sensor, is able to satisfy most of customer's requirements of high reading performance, combined with a competitive price, making 2D technology more accessible. The Lynx™ D302 CCD sensor is suitable to read longer barcodes, thanks to its wider reading window. The Lynx™ D302/E CCD sensor is specifically conceived to read high resolution barcodes.

All models are equipped with a multi-standard interface to allow connection to the host via USB, 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 for the application, as well as offering a quick view of the downloaded images.

Features

- > Two optics available: CCD or CMOS
- > Omni directional scanning
- > Support most popular 1D, 2D, RSS & CS symbologies and Postal codes
- > Autodiscrimination of linear and 2D codes
- > Image capture
- > Intuitive aiming
- > Multi-standard interface: USB, RS232, Wedge AT IBM
- > Visual Setup Software Tool included in the package

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	200 mA @ 12VDC (stand-by); 300 mA @ 12 VDC (typical) 440 mA @ 12 VDC (peak current)
D402	182 mA @ 12V (Stand-by) 300 mA @ 12V (Typical) 360 mA @ 10V (Peak current)

PERFORMANCE

AIMING	Visible laser diode @ 650 nm
MAX. RESOLUTION	Linear: 5 mils; datamatrix: 10 mils (D302) Linear: 3 mils; datamatrix: 5 mils (D302 E) Linear: 5 mils ; Datamatrix 6.6 mils (D402)
READING FIELD	28.6° (H) x 21.9° (V): D302 model 21.8° (H) x 16.2° (V): D302 E model 21.8° (H) x 16.7° (V): D402 model
PRINT CONTRAST VALUE (min.)	PCS=23% (D302/D402); PCS=45% (D302 E)
READING ANGLE	
Skew	±40° (D302/D402); ±60° (D302 E)
Pitch	±35° (D302/D402); ±50° (D302 E)
Tilt	360°
SENSOR	640 X 480 element, 2D CCD array; 640 x 480 pixel element, 2D CMOS Array (D402)
IMAGE AND SIGNATURE CAPTURE	640x480 VGA (8 bit gray scale) 320x240 CIF (8 bit gray scale)

BAR CODES

1D Codes	Interleaved 2 of 5, Code39, MSI, Code128, EAN 128, Code 93, UPC/EAN/JAN, RSS, Codabar, Composite Codes
2D Codes	PDF417, Micro PDF, Maxicode, DataMatrix (ECC200), QR, AZTEC: Codablock A; Codablock F; Codablock F EAN
Postal	POSTNET, PLANET, Japan Post, Australia Post, KIX Code, Royal Mail Code (RM4SCC)
INTERFACES	RS232, Wedge AT IBM; USB
LASER CLASSIFICATION	Class 2 (IEC 825-1 and CDRH)

MECHANICAL CHARACTERISTICS

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

ENVIRONMENT

AMBIENT LIGHT	0 to 100,000 lux (D302)
IMMUNITY	
OPERATING TEMP.	0 to 40 °C
STORAGE TEMP.	-20 to 70 °C
HUMIDITY	0 to 95% non condensing
DROP RESISTANCE	1.5m Multiple drops

Reading Characteristics

LYNX™ D302	1D CODE	DEPTH OF FIELD	LYNX™ D302E	1D CODE	DEPTH OF FIELD	LYNX™ D402	1D CODE	DEPTH OF FIELD
	Code 39 5 mils	75 to 105 mm		Code 39 5 mils	35 to 70 mm		Code39 5 mils	80 to 150 mm
	Code 39 20 mils	75 to 325 mm					Code39 20 mils	80 to 330 mm
	EAN13 13 mils	45 to 115 mm					EAN13 13 mils	75 to 245 mm
LYNX™ D302	2D CODE	DEPTH OF FIELD	LYNX™ D302E	2D CODE	DEPTH OF FIELD	LYNX™ D402	2D CODE	DEPTH OF FIELD
	Postnet 20 mils	75 to 325 mm		PDF417 5 mils	40 to 75 mm		POSTNET 20 mils	115 to 300 mm
	PDF417 6.6 mils	45 to 160 mm		PDF417 10 mils	45 to 100 mm		PDF417 6.6 mils	70 to 190 mm
	PDF417 10 mils	35 to 215 mm		QR 5 mils	45 to 60 mm		PDF417 10 mils	45 to 240 mm
	QR 10 mils	55 to 105 mm		QR 10 mils	35 to 85 mm		QR 10 mils	70 to 155 mm
	QR 15 mils	45 to 175 mm		Datamatrix 5 mils	45 to 60 mm		QR 15 mils	45 to 210 mm
	Datamatrix 10 mils	60 to 120 mm		Datamatrix 10 mils	35 to 85 mm		Datamatrix 10 mils	75 to 165 mm
	Datamatrix 15 mils	45 to 165 mm					Datamatrix 15 mils	60 to 220 mm

Accessories



STD1000



HLS1000



Protective case



Desk/Wall Holder

Stand (STD1000)

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

Universal Holster (HLS1000)

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.

