Lynx

Hand-Held 2D Reader

DATALOGIC
Your Life. Our Enthusiasm™

VisualSetup™

Aiming

1D & 2D Codes

USB
UNIVERSAL SERIAL BUS

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 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. Furthermore, the Lynx™ D432 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 (±100%) and windowing. Aiming at the image to be captured is very 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

Lynx™

Hand-Held 2D Reader

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; gray levels: 256, 16, 2
CODES	
1D Codes	Interleaved 2/5, Code 39, Code 32, Code 128, EAN 128, 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)
INTERFACES	RS232, Wedge AT IBM; USB (COM and Wedge emulation)
LASER CLASSIFICATION	Class 2 (IEC 825-1 and CDRH)

ENVIRONMENT
AMBIENT LIGHT IMMUNITY	0 to 100,000 lux
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
	Code 39 5 mils	80 to 150 mm
	Code 39 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™ D432-E	1D CODE	DEPTH OF FIELD
	Code 39 3 mils	50 to 75 mm
	Code 39 5 mils	40 to 95 mm
LYNX™ D432-E	**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

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.

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