DS8100A

Performance Laser Scanner

Highlights

The new DS8100A, a high-performance linear laser barcode reader, is designed to satisfy the key needs of sorting applications in the Transportation & Logistics arena. With top-class reading performance and flexibility of use, DS8100A is the standard reader for the most challenging applications and competitive solutions.

• EXCELLENT READING PERFORMANCE
The Datalogic DS8100A is based on
ASTRA™, an innovative and patented
multiple-diode switching technology that multiple-diode switching technology that guarantees excellent reading performance through the use of real-time focusing on an extended depth of field. ASTRA™ provides unrivalled reading performance even with very irregular object shapes running at very high speed. The DS8100A also supports ACR™, the Datalogic advanced code reconstruction algorithm, to dramatically increase the total read rate. ACR™ makes a difference when codes are damaged or poorly printed, and has superb external light immunity to keep the system working in several different lighting conditions. And DS8100A includes PackTrack™, by which the localization of code into the reading area the localization of code into the reading area is able to finely assign barcodes, reducing the minimum object gap, hence increasing the system throughput.

EASY OF SETUP

DS8100A supports the parameter setup by the standard Datalogic configuration program Genius™ that helps to automate and speed up the reader configuration and calibration.

FLEXIBILITY

The new DS8100A is completely compatible with the laser scanner DX8200A, DS6300, DS6400 and the industrial controller SC6000. The high flexibility and modularity is a key feature in composing the best competitive solution for specific requirements.

• BUILT-IN CONNECTIVITY
DS8100A offers the Ethernet connectivity to satisfy contemporary data transmission and remote control.

• EASY OF MANTAINANCE

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A practical display with keyboard increases the DS8100A's ease of use by offering a simple and complete human interface without the need of a PC. The reader is constantly monitored by internal diagnostic routines; failures and malfunctioning are promptly notifyed to Host system as well as to Datalogic WebSentinel™, the new remote surveillance software. DS8100A can be simply and quickly replaced thanks to the automatic replacement function. DARP™ that automatic replacement function, DARP™ that completely manages the restore operations of the system.

ENERGY EFFICIENCY

DS8100A performs the Energy Saving function that allows saving energy and extending the life of the reader. Upon the occurrence of predefined conditions, scanner will stop motor and switch off laser, waiting for the next activation event



Features

- ACR™-4 code reconstruction algorythm
- ASTRA™ technology for the electronic focusing system
- PACKTRACK™ to minimize the gap between objects and increase system productivity
- GENIUS™ multi-language SW for easy scanner configuration/setup
- Built-in Ethernet TCP/IP connectivity
- Remote diagnostic monitoring and control by Datalogic WebSentinel™

Applications

- · Parcel sorting system
- **Dimensioning Weighting** Scanning System
- Postal applications
- · Automatic baggage handling
- Cargo applications
- Loading/Unloading systems



DS8100A

Specifications

Technical Data

Operating Temperature 0 bis 50° C (32 to 122 °F) Storage Temperature -20 bis 70° C (-4 to 158 °F) Humidity 90% non condensing IEC 68-2-6 test FC 1.5 mm, 10 to 55 Hz; 2 hours on each axis Vibration Resistance OM:1.5 mm @ 5 to 9,1Hz ;0.5 mm @ 9.1 to 150 Hz Shock Resistance IEC 68-2-27 test EA 30 G 11 ms; OM: 15 G 11 ms 3 shocks on each axis IP64 (IP65 optional) Protection Class Visible Laser Diode (630 - 680 nm) Light Source Light Receiver Avalanche photodiode Max. Resolution Code See diagrams Scan Rate 1,000 scans per second Max. Depth of Field See diagrams Max. Reading Field See diagrams Max. Reading Distance See diagrams Readable Codes 22 symbologies incl. 2/5 family, Code 39, Code 93, Code 128, EAN/UPC, Codabar, EAN128 Code Autodiscrimination Up to 10 different codes Main interface RS232/RS485 Half Duplex and Full Duplex Interface Card Baud rate 115,200 bauds Aux. interface RS232 Input Signals 3 programmable and 1 Encoder (optocoupled); Auxiliary Input (optocoupled) (NPN/PNP transistor) 3 programmable (NPN/PNP transistor) Output Signals Setup Via serial port commands and Windows™ based software program Genius™ **Operating Modes** 'On-line', 'Serial On-line', 'Automatic', 'Continuous', 'PackTrack™', 'Test' Display 2 line by 20 character LCD Keypad 3 LED status indicators: 1) Power on (red) Good Read (red); Led Indicators 2) Ext. Trigg. (yellow) TX Data (green); 3) Encoder (yellow) Network (red) Laser Classification IEC 825 Class 2

Safety system to turn laser off in cases of motor slowdown or failure

215.5 x 170.5 x 126.5 mm (8.48 x 6.71 x 4.98 in); OM: 280 x 254 x 195 mm (11.03 x 10 x 7.68 in)

5.0 Kg (176.3 oz.); OM: 6.4 Kg (225.7 oz.)

Applications



Airport baggage sorting systems



Automated warehousing identification systems

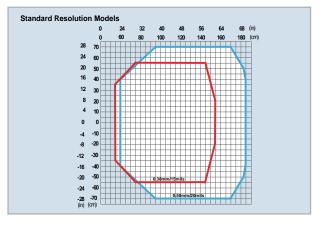


Postal/Courier parcel sorting and tracking

High Resolution Models 20 16 12 30 20 10 0 -10 -20 -40 -16 0.30mm/12mils -20 -50

20 to 30 VDC

Reading Diagrams



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Laser Control

Power Supply Power Consumption **Dimensions**

Case Material

Weight











