



# DS1100

*Ultra compact cost-effective laser scanner*

## FEATURES

- Cost effective
- Very compact dimensions for both direct/90° reading window models
- Wide reading width at a short reading distance
- Lightweight <100 g (<3.53 oz)
- Built-in RISC decoder
- Scanning speed of 350 scans/sec
- Dual high speed serial interface (RS232/RS485)
- 5 status LEDs
- Easy set up through **WINHOST™**
- IP65 rugged industrial housing

## APPLICATIONS

- Chemical and blood analyzers
- Pharmaceutical code verifiers
- Automatic teller machines (ATMs)
- Printing machines
- Video rental machines
- Film processing machines
- Assembly line, document and library tracking
- Work-in-process & Quality control
- Small Conveyors and Picking systems

## GENERAL DESCRIPTION

Datalogic's **DS1100** offers the best cost-effective industrial solution for OEM applications.

Specifically designed for easy integration into OEM equipment, the **DS1100** provides very compact dimensions, lightweight and, obviously, Datalogic's recognized excellent scanning performance.

Many applications and customers' needs have been analyzed and taken into great consideration during the **DS1100** product development. Thanks to these studies, direct and 90° output window versions have the same compact dimensions, allowing very flexible installation. Set-up procedures are very easy to follow so the scanner can be quickly configured through **WINHOST™**, the intuitive set-up software.

The **DS1100** covers a wide reading area, scans very close to the output window and grants optimized performance on high resolution codes, thanks to a full range of specific models.

The perfect combination of a powerful RISC decoder with reliable decoding algorithms and impressive optical performance assure the highest read rate and accuracy even on damaged or poorly printed bar codes.

Integration and connection with existing control systems, PCs or PLCs, is very easy using the two high speed serial interfaces. Multi-point scanning configurations are available using Master-Slave or Multiplexer connections.

The **DS1100** is equipped with IP65 rugged industrial housing and is also available as an embedded module for specific applications.



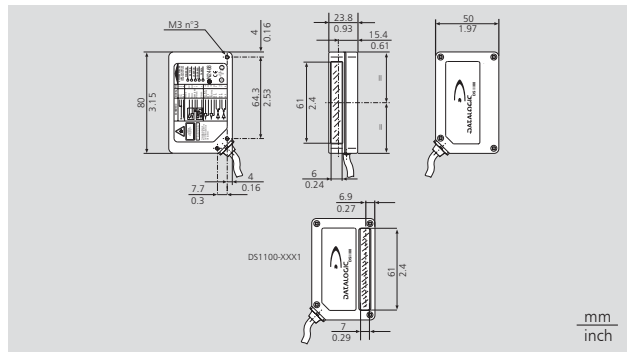
# MODELS AND ACCESSORIES

| MODEL              | DESCRIPTION   | ORDER NO. |
|--------------------|---|-----------|
| DS1100-1100        | Standard resolution, RS232+RS485, Linear, Direct reading    | 939101000 |
| DS1100-1101        | Standard resolution, RS232+RS485, Linear, 90° reading       | 939101010 |
| DS1100-1110        | Standard resolution, RS232+RS485, Raster R1, Direct reading | 939101020 |
| DS1100-1111        | Standard resolution, RS232+RS485, Raster R1, 90° reading    | 939101030 |
| DS1100-2100        | High resolution, RS232+RS485, Linear, Direct reading        | 939101040 |
| DS1100-2101        | High resolution, RS232+RS485, Linear, 90° reading           | 939101050 |
| DS1100-2110        | High resolution, RS232+RS485, Raster R1, Direct reading     | 939101060 |
| DS1100-2111        | High resolution, RS232+RS485, Raster R1, 90° reading        | 939101070 |
| <b>ACCESSORIES</b> |   |           |
| DC5-2200           | DC converter 4-30 VDC to 5 VDC                              | 93ACC1040 |

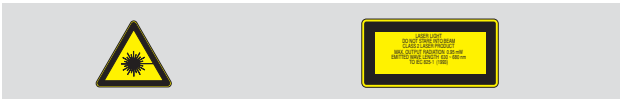
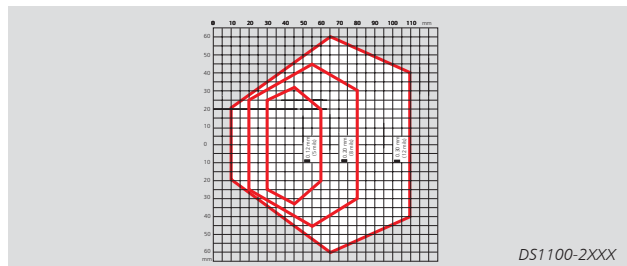
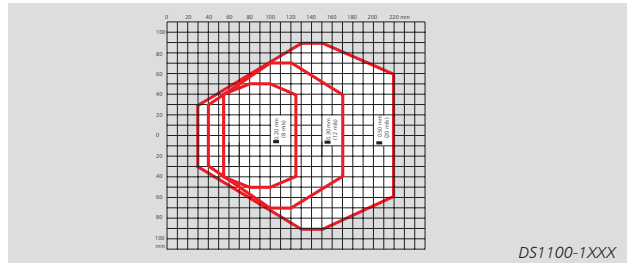
## SPECIFICATIONS

|                        |  |
|------------------------|--|
| POWER SUPPLY           | 5 VDC ±5% (4 to 30 VDC with converter)   |
| POWER CONSUMPTION      | 1.5 W  |
| LIGHT SOURCE           | Visible laser diode (650 nm)   |
| SCANNING SPEED         | 350 scans/sec  |
| MAX. RESOLUTION        |  |
| 1xxx models            | 0.20 mm (8 mils)   |
| 2xxx models            | 0.12 mm (5 mils)   |
| MAX. READING DISTANCE  |  |
| 1xxx models            | 220 mm (8.7 in) on 0.50 mm (20 mils) code res.                                       |
| 2xxx models            | 110 mm (4.3 in) on 0.30 mm (12 mils) code res.                                       |
| MAX. DEPTH OF FIELD    |  |
| 1xxx models            | 190 mm (7.5 in) on 0.50 mm (20 mils) code res.                                       |
| 2xxx models            | 100 mm (3.7 in) on 0.30 mm (12 mils) code res.                                       |
| APERTURE ANGLE         | 70 degrees   |
| RASTER APERTURE        | 15 mm (0.6 in) at 220 mm (8.7 in)  |
| READABLE CODES         | Code 2/5, Code 39, Code 93, Code 128, EAN/UPC, EAN 128, Codabar, Plessey, Pharmacode |
| MULTILABEL READING     | Up to 6 different codes in the same reading phase                                    |
| COMM. INTERFACES       | RS232+RS485 half duplex  |
| BAUD RATE              | Up to 115,200 bauds  |
| INPUT SIGNALS          | One programmable digital input and One External Trigger digital input                |
| OUTPUT SIGNALS         | Two programmable digital outputs   |
| PROGRAMMING METHOD     | Via serial port (WINHOST™)   |
| OPERATING MODES        | 'On line', 'Serial On-line', 'Automatic', 'Test'                                     |
| LED INDICATORS         | 'Power On', 'Ext Trigger', 'Laser On', 'Good Read', 'Tx Data'                        |
| LASER CLASSIFICATION   | IEC 825-1 Class 2; CDRH Class II   |
| LASER CONTROL          | Security system to turn laser off in case of motor slow down or failure              |
| WEIGHT (without cable) | < 100 g (< 3.53 oz)  |
| CASE MATERIAL          | Magnesium (body) + Polycarbonate (cover)   |
| OPERATING TEMPERATURE  | 0 to 45 °C (32 to 113 °F)  |
| STORAGE TEMPERATURE    | -20 to 70 °C (-4 to 158 °F)  |
| HUMIDITY               | 90% non condensing   |
| VIBRATION RESISTANCE   | IEC 68-2-6 test FC 1.5 mm; 10 to 55 Hz; 2 hours on each axis                         |
| SHOCK RESISTANCE       | IEC 68-2-27 test EA 30 G; 11 ms; 3 shocks on each axis                               |
| PROTECTION CLASS       | IP65   |

## DIMENSIONS



## READING DIAGRAMS



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We reserve the right to make modifications and improvements

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