The New DS2400N laser reader takes advantage of Datalogic’s successful experience in 1D bar code reading, satisfying the demanding application needs of the largest manufacturers worldwide. DS2400N provides greater profitability and productivity in the most common warehousing, shop floor and OEM applications.

Enhanced Reading Performance
The DS2400N grants high reliability when reading difficult bar codes thanks to its capability of self-optimizing reading performance in any condition and using ACB™ reconstruction technology. DS2400N offers an extremely wide depth of field and large reading area in a very compact and robust housing with IP65 protection.

New Embedded ID-NET™ High Speed Interface
The DS2400N is equipped with the built-in ID-NET™ interface, used for high-speed scanner interconnection. ID-NET™ allows faster and more efficient data collection without the need for an external multiplexer device. This translates into overall cost reduction and easier system wiring.

Innovative X-PRESS™ Human Machine Interface
X-PRESS™ is the intuitive Human Machine Interface designed with the precise goal of improving ease of installation and maintenance. Status and diagnostic information are clearly presented by means of a five LED bar-graph, whereas the single multi-function key gives immediate access to relevant functions such as Test Mode (for bar code verification), AutoLearn (for bar code self-detection) and AutoSetup (for scanner self-adjusting). This makes working easier for any user.

Multi-language Genius™ SW Configuration Tool
The DS2400N scanner can be easily programmed through the intuitive and multi-language Genius™ SW tool. Thanks to the wizard approach and graphic add-ons, the scanner configuration will be accomplished rapidly.

Applications
- Automated warehousing
- Picking systems
- Automated shopfloor
- Items and parts tracking
- Process control
- Packaging and compliance
- OEM
- Document Handling
- Print & Apply
- Automatic chemical and biomedical analysis machines
**Specifications**

**ELECTRICAL CHARACTERISTICS**
- POWER SUPPLY: 10 to 30 VDC
- POWER CONSUMPTION: 5 W

**MECHANICAL CHARACTERISTICS**
- DIMENSIONS: 84 x 68 x 34 mm (3.31 x 2.68 x 1.34 in)
- WEIGHT: 330 g (11.6 oz)
- CASE MATERIAL: Aluminum

**PERFORMANCE**
- LIGHT SOURCE: Visible laser diode (630 to 680 nm)
- SCANNING SPEED: 600 to 1000 scans/sec (SW programmable)
- MAX. RESOLUTION: Up to 0.20 mm (8 mils)
- MAX. DEPTH OF FIELD: Up to 400 mm (15.7 in) on 0.50 mm (20 mils) bar codes
- RASTER APERTURE: 24 mm (0.95 in) at 500 mm (20 in)
- MULTILABEL READING: Up to 10 different symbologies during the same reading phase
- COMM. INTERFACES: Main port RS232/RS485 SW selectable up to 115.2 kbps, Aux. port RS232 up to 115.2 kbps, ID-NET™ port up to 1 Mbps

**DEVICE PROGRAMMING**
- Genius™ SW configuration tool, X-PRESS™ human machine interface, Serial host mode programming sequences

**OPERATING MODES**

**INPUT SIGNAL**
- External Trigger (optocoupled, NPN/PNP), IN1 (optocoupled, NPN only)

**OUTPUT SIGNALS**
- OUT1, OUT2 SW programmable event driven (optocoupled, NPN/PNP)

**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

**MOTOR CONTROL**
- Motor ON/OFF command string and motor speed SW programmable

**ENVIRONMENT**
- OPERATING TEMP.: 0 to 45 °C (32 to 113 °F)
- STORAGE TEMP.: -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

**Accessories**

- Mirror solution for limited mounting areas
- Mirror for contact reading applications
- Oscillating mirror for wider reading coverage
- Flexible bracket for fast scanner positioning

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**Dimensions**

**Reading Diagrams**

DS2400N Short Range Model

DS2400N Medium Range Model

DS2400N Long Range Model