



# DS2400

## Compact Extended Range Laser Scanner

### Features

- **Software programmable scanning speed up to 1000 scan/s**
- **Reading distance up to 600 mm**
- **Real time decoding with new generation RISC processor**
- Dual high speed serial interface (RS232/RS485 up to 115.2 Kbaud)
- Connector/Junction Box versions
- Easy set-up through **WINHOST™**
- The same compact dimensions for direct or 90° reading
- IP65 rugged industrial housing

### Applications

- Automated warehousing
  - Conveyor sorting
  - Label verification
  - Picking systems
- Automated shopfloor
  - Items and parts tracking
  - Packaging and compliance
- OEM
  - Automatic storage machines
  - Automatic labelling machines

### General Description

Datalogic's **DS2400** grants improved productivity, greater profitability and more efficient processes in the most common warehousing, shop floor and OEM applications, providing a competitive advantage for any company.

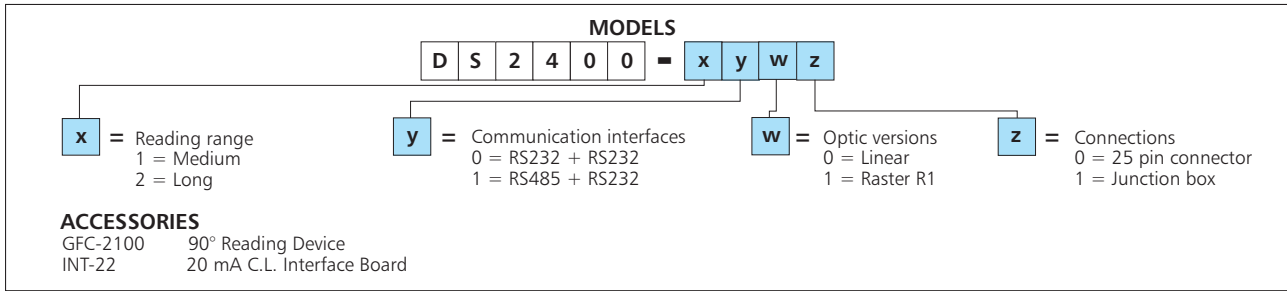
Extending and enhancing the reading range of Datalogic's 2000 scanner series, the **DS2400** enlarges the application fields in which a high quality cost-effective industrial scanner can be employed.

Combining long distance reading, high scanning speed and very compact dimensions with the capability to adapt its reading characteristics to any application's requirement, the **DS2400** is ready to solve the most difficult challenges related to bar code reading.

The user can select the best scanning speed (400 to 1000 scans) according to the bar code density (standard/high) and real reading conditions (standard/difficult) of his particular application. This capability of creating a "tailor made" configuration enhances the system performance, lowers the need and cost of manual bar code reading, improves the speed and quality of collected data and makes the information scanned extremely reliable.

Thanks to its unique characteristics, including wide reading range, high scanning and communication speed, as well as compactness in both direct or 90° reading, the **DS2400** represents the best solution for improved business performance.

# Models and Accessories

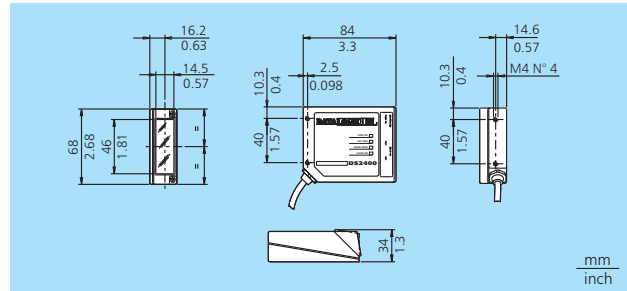


## Specifications

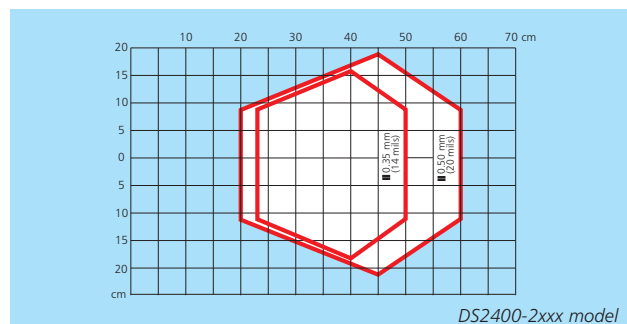
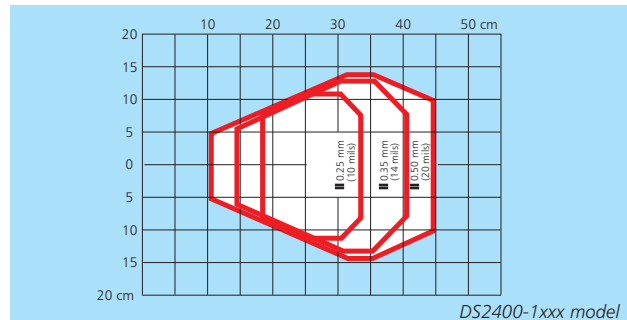
POWER SUPPLY	10 to 30 VDC
POWER CONSUMPTION	5 W
LIGHT SOURCE	Visible laser diode (630 to 680 nm)
SCANNING SPEED	400-1000 scans/sec (SW programmable)
MAX. RESOLUTION	1xxx models 0.25 mm (10 mils) 2xxx models 0.35 mm (14 mils)
MAX. READING DISTANCE	On 0.50 mm (20 mils) code resolution 1xxx models 440 mm (17.3 in) 2xxx models 600 mm (23.6 in)
MAX. DEPTH OF FIELD	On 0.50 mm (20 mils) code resolution 1xxx models 340 mm (13.4 in) 2xxx models 400 mm (15.7 in)
APERTURE ANGLE	50 degrees
RASTER APERTURE	24 mm (0.95 in) at 500 mm (20 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+RS232 (X0XX models) RS485+RS232 (X1XX models)
BAUD RATE	Up to 115,200 baud (both interfaces)
INPUT SIGNAL	External Trigger digital input (optocoupled NPN/PNP transistor)
OUTPUT SIGNALS	Two programmable digital outputs (optocoupled NPN transistors)
PROGRAMMING METHOD	Via serial port (WINHOST™)
OPERATING MODES	'On line', 'Serial On-line', 'Automatic', 'Test', 'Verifier'
LED INDICATORS	'Power On/Tx Data', 'External Trigger', 'Good Read', 'Laser On'
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
DIMENSIONS	84 x 68 x 34 mm (3.31 x 2.68 x 1.34 in)
WEIGHT	330 g (11.6 oz)
CASE MATERIAL	Aluminium
OPERATING TEMPERATURE	0 to 40 °C (32 to 104 °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



# DATA LOGIC DL

*Bar Code & More*

Product and company names and logos referenced may be either trademarks or registered trademarks of their respective companies.

**Australia**  
Datalogic PTY. LTD.  
Tel. +61 3/95589299  
Fax +61 3/95589233  
sales@datalogic.com.au

**India**  
Datalogic (India) Private Ltd.  
Tel. +91 80/5584440  
Fax +91 80/5582896  
datalogic@vsnl.com

**Sweden**  
Datalogic AB  
Tel. +46 40/385000  
Fax +46 40/181849  
info@datalogic.se

**Austria**  
Datalogic Handelges. MBH  
Tel. +43 2236/25882  
Fax +43 2236/258825  
office@datalogic.co.at

**Italy**  
Datalogic S.p.A.  
Tel. +39 051/6459211  
Fax +39 051/726562  
info@datalogic.it

**United Kingdom**  
Datalogic UK Ltd.  
Tel. +44 1582/464900  
Fax +44 1582/464999  
enquiries@datalogic.demon.co.uk

**Denmark**  
Datalogic AB  
Tel. +45 44/209970  
Fax +45 44/209972  
info@datalogic.se

**Japan**  
Izumi Datalogic Co., Ltd.  
Tel. +81 78/2723400  
Fax +81 78/2722003  
idmarke@izumi-datalogic.co.jp

**U.S.A.**  
Datalogic Inc.  
Tel. +1 606/6897000  
Fax +1 606/3344970  
info@datalogic.com

**France**  
Datalogic France S.A.  
Tel. +33 1/60921111  
Fax +33 1/60921340  
dfrance@worldnet.fr

**Netherlands**  
Datalogic Optic Electronics BV  
Tel. +31 346/572888  
Fax +31 346/568736  
info@datalogic.nl

**Germany**  
Datalogic GmbH  
Tel. +49 7026/6080  
Fax +49 7026/5746  
info@datalogic.de

**Spain**  
Datalogic France S.A.  
Tel. +34 93/3221227  
Fax +34 93/4394136  
datalogic@seies



We reserve the right to make modifications and improvements

**Datalogic Quality Partner**



These products are available through the worldwide network of Datalogic Quality Partners.

