# **DS6400** High Performance Laser Scanner











## **General Description**

The new **DS6400** has been specifically designed to satisfy the needs of various AutoID applications in Manufacturing and Logistics applications.

The **DS6400** is based on the same concept of the DS6300 and DS6500: a complete and modular solution in terms of reading performance, connectivity, ease of use and maintenance.

Modularity and flexibility of the **DS6400** is based on an innovative mechanical design with the scanner separated in two parts: the reading head and decoder base. As a result, it is possible to always install the scanner in the ideal position, by simply rotating the Head / Base position ("Step-A-Head").

The **DS6400** has a built-in linear motor providing a dynamic focus system called FLASH™, fully controlled via SW, which covers an impressive reading range of over 2 meters. FLASH™ is capable of moving the focus position from the minimum to the maximum position, in less than 10 msec. FLASH™ complements ASTRA™ technology, based on a multi-laser architecture, which maximizes the real time depth of field. The **DS6400** is offered both in linear and integrated Oscillating Mirror (OM) versions, which are fully SW controlled.

The **DS6400** has the same decoder base as the DS6300, with built-in connectivity to Ethernet, Devicenet and Profibus.

With the GENIUS  $^{\text{TM}}$  program, it's easy to setup the scanner and to perform functions such as remote control and SW updates on any slave scanner of the cluster by simply connecting the Master.

#### **Features**

- > New "FLASH™" dynamic focus system
- > Totally SW controlled
- > Reading range from 300 to 2500 mm
- > Advanced decoder with code reconstruction capability (ACR™4)
- Linear and integrated Oscillating Mirror versions
- > Display and keyboard
- > GENIUS™ SW configurator
- Built-in connectivity to Ethernet / Devicenet / Profibus
- > PackTrack™ function

### **Applications**

- Shop Floor, WIP tracking in Manufacturing, Automotive, Electronics, Consumer Products
- Reading on pallets in Warehousing and Distribution
- > Tracking and sorting of goods



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# **Specifications**

### **ELECTRICAL CHARACTERISTICS**

POWER SUPPLY 15 to 30 Vdc 15 W max. POWER CONSUMPTION

#### MECHANICAL CHARACTERISTICS

**DIMENSIONS** 113 x 110 x 99 mm (4.45 x 4.33 x 3.90 in.);

Integrated OM version: 180 x 113 x 99 mm (7.09 x 4.45 x 3.90 in.) WEIGHT Linear version: 1.4 kg. (3 lb); Integrated OM version: 2 kg. (4 lb 8 oz)

CASE MATERIAL Aluminium

#### **PERFORMANCE**

LIGHT SOURCE Visible Laser Diode (650 nm)

MAX. RESOLUTION 0.2 mm (8 mils)

600 to 1,200 scan/s (SW adjustable) SCAN RATE

MAX. READING DISTANCE See diagrams MAX. DEPTH OF FIELD See diagrams MAX. READING FIELD See diagrams

**READABLE CODES** All the most used symbologies

MULTILABEL READING Up to 10 different codes in the same reading phase

MAIN INTERFACE RS232 / RS485 (20 mA C.L. optional) AUXILIARY INTERFACE RS232 / RS485 (20 mA C.L. optional)

OTHER AVAILABLE INTERFACES Lonworks (Master/Slave), Ethernet, Devicenet, Profibus

BAUD RATE 1,200 to 115,200 bauds

INPUT SIGNAL 'Presence sensor' plus 3 auxiliary digital inputs

**OUTPUT SIGNALS** 3 SW programmable digital outputs

**OPERATING MODES** 'On line', 'Serial On line', 'Continuous', 'Test', 'PackTrack' LED INDICATORS 'Ready', 'Reading phase active', 'Label present', 'Data transmit'

DISPLAY 2 lines by 16 characters LCD

KEYPAD 3 keys

LED INDICATORS 'Power ON', 'Phase ON', 'TX data'

LASER CLASSIFICATION IEC 825 Class 2

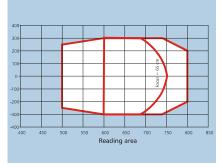
Security system to turn laser OFF in case of motor slow down LASER CONTROL

**ENVIRONMENT** 

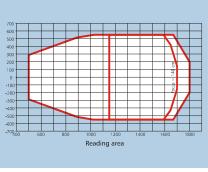
OPERATING TEMPERATURE 0 to 40 °C (32 to 104 °F), STORAGE TEMPERATURE -20 to 70 °C (-4 to 158 °F)

IP64 for standard models; IP65 on request PROTECTION CLASS

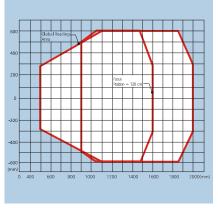
# **Reading Diagrams**



0.2 mm (8 mils) resolution codes



0.375 mm (15 mils) resolution codes



0.5 mm (20 mils) resolution codes





# **Modular Concept**





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