

DS6500

High Performance
Laser Scanner

DATALOGIC
Your Life. Our Enthusiasm™



Unattended Scanning Systems

General Description

The new **DS6500** is a high performance compact scanner which addresses AutoID needs in Transportation and Logistics applications.

The **DS6500** is based on the same concept of the DS6300 and DS6400: a complete and modular solution in terms of reading performance, connectivity, ease of use and maintenance. The innovative mechanical design, with the scanner separated in two parts - the reading head and decoder base - makes it possible to always install the scanner in the ideal position, by simply rotating the Head / Base position ("Step-A-Head").

The **DS6500** inherits ASTRA™ technology from the DS8100, making it possible to electronically switch the laser diodes, depending on the distance from the barcode. The real time DOF offered by the **DS6500** covers a wide set of applications, from stand alone to multi-side tunnels on conveyors.

The **DS6500** is offered both in linear and integrated Oscillating Mirror versions, which are fully SW controlled.

The practical display with keyboard increases the scanner's ease of use and offers a simple human interface without the need of a PC.

The **DS6500** shares the same decoder base with the DS6300 and DS6400, with built-in connectivity to Ethernet, Devicenet and Profibus.

With the GENIUS™ 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

- > ASTRA™ 2 diode optic platform
- > Real time DOF
- > Reading range from 400 to 1800 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

- > Tracking and sorting of parcels
- > Baggage Handling System applications
- > Multi-side reading on conveyors

Specifications

ELECTRICAL CHARACTERISTICS

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

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.)
 Linear version: 1.4 kg (3 lb); Integrated OM version: 2.0 kg (4 lb, 8 oz)
 CASE MATERIAL Aluminium

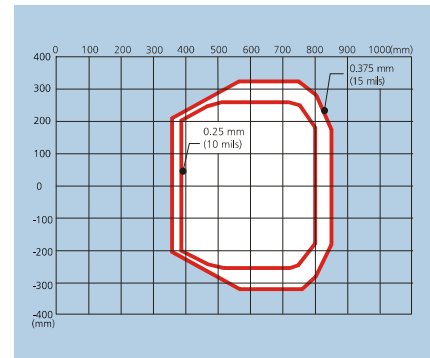
PERFORMANCE

LIGHT SOURCE Visible Laser Diode (650 nm)
 MAX. RESOLUTION 0.25 mm (8 mils)
 SCAN RATE 600 to 1,200 scan/s (SW adjustable)
 MAX. READING DISTANCE see diagrams
 MAX. DEPTH OF FIELD see diagrams
 MAX. READING FIELD see diagrams
 READABLE CODES All the most commonly 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'
 DISPLAY 2 lines by 16 characters LCD
 KEYPAD 3 keys
 LED INDICATORS 'Power ON', 'Phase ON', 'TX data'
 LASER CLASSIFICATION IEC 825 Class 2
 LASER CONTROL Security system to turn laser OFF in case of motor slow down

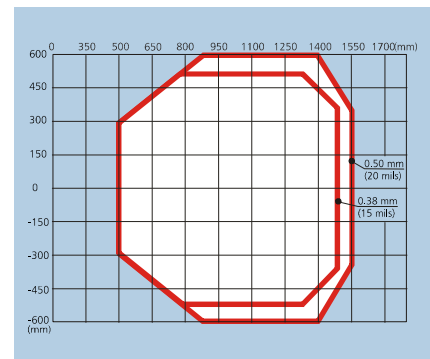
ENVIRONMENT

OPERATING TEMPERATURE 0 to 40 °C (32 to 104 °F)
 STORAGE TEMPERATURE -20 to 70 °C (-4 to 158 °F)
 PROTECTION CLASS IP64 for standard models; IP65 on request

Reading Diagram



DS6500-100 version



DS6500 - 200 version

Modular Concept



Astra™ Technology

