DS6500

High Performance Laser Scanner

DATALOGIC

Your Life. Our Enthusiasm™

Step-a-Head™

Genius

ASTRA™ Double Laser

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 multiside tunnels on conveyors.

The **DS6500** is offered both in linear and integrated Oscillaing 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
> Strong Arm decoder with code reconstruction capability (ACR3)
> 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
> Multiside reading on conveyors

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Specifications

ELECTRICAL CHARACTERISTICS

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

MECHANICAL CHARACTERISTICS
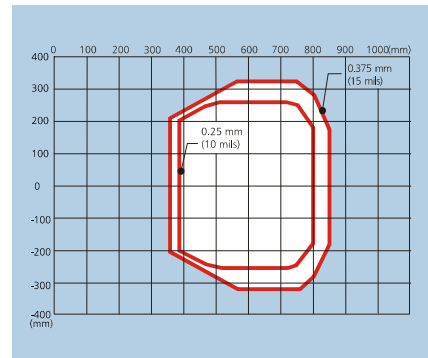
DIMENSIONS	113 x 110 x 99 mm (4.45 x 4.33 x 3.90 in.); Integrated OM version: 180 x 113 x 99 mm (7.09 x 4.45 x 3.90 in.)
WEIGHT	Linear version: 1.4 kg (3 lb); Integrated OM version: 2.0 kg (4 lb, 8 oz)
CASE MATERIAL	Aluminium

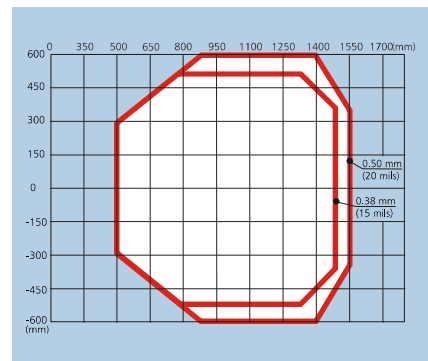**PERFORMANCE**

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 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'
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

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