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.)
- **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 scans/s (SW adjustable)
- **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, Profinet
- **Baud Rate**: 1,200 to 115,200 bauds
- **Input Signal**: ‘Presence sensor’ plus 3 auxiliary digital inputs
- **Output Signals**: 3 SW programmable digital outputs
- **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

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### Reading Diagram

**DS6500-100 Version**

**DS6500-200 Version**

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### Modular Concept

**Astra™ Technology**

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