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™ 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.

Applications

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

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

General Description
### 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 kg. (4 lb 8 oz)
- **Case Material**: Aluminium

**Performance**
- **Light Source**: Visible Laser Diode (650 nm)
- **Max. Resolution**: 0.2 mm (8 mils)
- **Scan Rate**: 600 to 1,200 scans/s (SW adjustable)
- **Max. Reading Distance**: 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
- **Display**: 2 lines by 16 characters LCD
- **Keypad**: 3 keys
- **LED Indicators**: ‘Ready’, ‘Reading phase active’, ‘Label present’, ‘Data transmit’
- **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

**Modular Concept**

![Diagram of modular concept](image-url)