

DS8100A

Top Performance
Laser Scanner



Unattended Scanning Systems

General Description

The new DS8100A is a top performing fixed position laser bar code reader, purposely designed to satisfy the needs of Sorting applications for the Transportation & Logistics market. The DS8100A represents the evolution of a winning concept started in 1998 with the DS8100: the use of state-of-the-art- technology to design the best performing fixed position scanner on the market. The new DS8100A is based on an innovative 3-diode structure, that offers an unbeatable real time depth of field. As a result of improved ASTRA™ technology that increases its already impressive performance, 3 laser diodes can switch electronically from one to the other depending on the bar code distance from the scanner. This means that the scanner is able to capture the bar code on an object of any possible shape in any position, as the DS8100A focuses on the bar code and not on the object profile. Translating this into a benefit for the customer, the new ASTRA™ offers unbeatable reading performance over a fast moving conveyor system, since two different objects present under the DS8100A laser line can be identified simultaneously without any problem. Advanced ASTRA™ technology, moreover, permits the PackTrack™ function, reducing the min. object gap and increasing system throughput, to be fully exploited.

The SW platform of the DS8100A, based on the GENIUS™ program, permits 100% control of scanner behavior via SW: the new DIGITECH™ signal processing technology permits all the scanner parameters to be configured via GENIUS™. As a result, scanner customization is made by simply downloading the right SW recipe into the scanner.

The DS8100A is completely compatible with the DX8200A, the 6000 scanner family (DS6300, DS6400, DS6500) and the SC6000 industrial controller, making Datalogic's offer more flexible and scalable, with numerous possibilities and solutions. Connectivity has been improved with the introduction of built-in Ethernet connectivity with implemented TCP-IP, Ethernet/IP, Modbus TCP and Profinet protocols.

A practical display with keyboard increases the DS8100A's ease of use by offering a simple and complete human interface without the need of a PC. The new ASR™ function permits completely automatic slave scanner replacement.

The new DS8100A inherits the mechanical design of the DS8100, with exactly the same dimensions and footprint.

Features

- > Reading performance benchmark
- > ACR™-4 code reconstruction algorithm
- > ASTRA™ technology for the electronic focusing system
- > Digitech™ signal processing technology
- > PACKTRACK™ to minimize the gap between objects and increase system productivity
- > GENIUS™ multi-language SW for easy scanner configuration/setup
- > Display and keyboard
- > Built-in Ethernet TCP/IP connectivity on some versions

Applications

- > Parcel sorting system
- > Postal applications
- > Automatic baggage handling
- > Cargo applications
- > Loading/unloading systems

