Unattended Scanning Systems

Product Range

1000/2000/4000/6000/8000/9000 Series, 2D Readers, Industrial Boxes & Controllers, Omni-Solutions
**Features**

- Access control systems
- Game automation (Lotto, Lottery, etc.)
- Chemical and biomedical analysis machines
- ATL (Automated Tape Library)
- Self Service Systems (ATM, Kiosk)
- Video rental machines
- Printing machines
- Small conveyors and picking systems
- Film processing machines
- Work-in-progress and Quality control

**Applications**

- Code quality control (AIM)
- Autolearning function
- 1D & 2D, stacked, postal
- Direct or 90° reading window
- Code reconstruction software embedded (TC1100)
- Easy configuration via Windows-based programming tools

**Specifications**

- TC1100
  - Reading Technology: CCD
  - Scan Rate: 270 scans/s
  - Reading Range: 25 to 310 mm
  - Max Resolution: 0.276 mm (3 mils)
  - Flexible interface “All in One” architecture: RS232 / Wedge / Pen
  - Available with or without outer case
- DS1100
  - Reading Technology: Laser
  - Scan Rate: 500 scans/s
  - Motor on/off via software commands
  - Reading Range: 20 to 229 mm
  - Max Resolution: 0.12 mm (5 mils)
  - Interfaces: RS232, RS485
- DS2100A
  - ACB™ Advanced Code Builder
  - Reading Technology: Laser
  - Scan rate: Up to 1000 scans/s
  - Reading range: 30 to 310 mm
  - Max resolution: 0.12 mm (5 mils)
- DS2400A
  - ACB™ Advanced Code Builder
  - Reading Technology: Laser
  - Scan Rate: 400 to 1000 scans/s
  - Reading Range: 60 to 600 mm
  - Max Resolution: 0.20 mm (8 mils)

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6000 Series

**Features**
- Modular solution based on a reading HEAD and decoder BASE
- Reading distance up to 2500 mm
- Adjustable, Flash™ (Dynamic), ASTRA™ double laser optics
- Display and keypad available
- Step-A-Head™ feature
- ACR™4 code reconstruction technology
- Integrated oscillating mirror available
- Built-in connectivity to Ethernet/DeviceNet/Profibus
- PACKTRACK™ tracking system

**Applications**
- WIP & Quality control
- Automated warehousing
- Reading on forklift trucks
- Electronic industry manufacturing
- Shop floor on Automotive, Electric Appliances, Food & Beverage
- Sorting on Logistics and Distribution lines
- Reading in airports: induction line and main sorters
- Omni-sorting on small conveyors

**Specifications**
- **DS6X00 Linear version**
  - Scan Rate: Up to 1200 scan/sec
  - Reading Range: 300 to 2000 mm
  - Decoder: ASTRA™
  - Power Supply: 15 to 30 Vdc
  - Optics: Adjustable

- **DS6X00 OM version**
  - Scan Rate: Up to 1200 scan/sec
  - Reading Range: 300 to 2500 mm
  - Decoder: ACR™
  - Power Supply: 15 to 30 Vdc
  - Optics: FLASH™

8000 Series

**Features**
- Market benchmark for fixed position laser scanners
- ASTRA™ multi-laser electronic focusing system
- Automatic bar code distance measurement
- ACR™4 code reconstruction technology
- PACKTRACK™ tracking system
- Ambient light immunity
- Designed for top performance in Sorting applications
- Display & keypad
- Built-in connectivity to Ethernet, Profibus and DeviceNet

**Applications**
- Postal and courier automatic parcel sorting and tracking
- Goods sorting and tracking in distribution centers
- Baggage Handling System in airport facilities
- Parcel identification in DWS systems (cubing, weighing and data capture)
- Cargo applications
- Loading/unloading systems

**Specifications**
- **DS8100A**
  - Laser Pattern: Cross
  - Scan Rate: 1000 scans/sec
  - Reading Range: 500 to 2000 mm
  - Max Resolution: 0.2 mm (8 mils)
  - Dimensions: 215.5 x 170.5 x 126.5 mm
  - Protection Class: IP64 (IP65 optional)
  - Operating Temperature: 0 to 50°C

**8000 Series**

**Features**
- High speed data collection
- Real time data processing
- Easy integration with existing systems
- Fast set-up
- Industrial design
- Serial, Ethernet, Profibus, DeviceNet connectivity
- Scanner controlling and configuring
- Real time statistics and diagnostics
- User friendly interface
- Easy installation, cabling and setup

**Applications**
- WIP Tracking and Data Collection for manufacturing applications
- Real time data processing
- Fieldbus connectivity on the factory floor
- Remote control
- WEB services on Ethernet TCP/IP
- Scanner controlling and configuring
- Real time statistics and diagnostics

**Specifications**
- **C-Box Line**
  - Compatibility: All USS scanners
  - Related Features: GETSEND/STORE configuration
  - Connectivity: RS232 to RS485 MUX32 protocol
  - Fieldbus Connectivity: DeviceNet, DeviceNet Case material: ABS
  - **MX4000**
    - Main Feature: Data collection on RS485 bus
    - Connectivity: DeviceNet
    - Remote Control and configuration
    - Power Supply: 10 to 30 Vdc
    - Case Material: Aluminum
  - **SC6000**
    - Main Feature: Based on Genius™ SW platform
    - Compatibility: 6000/8000 scanner families
    - Display: 4 lines x 20 characters
    - Connectivity: Ethernet, DeviceNet, DeviceNet, Power Supply: 24 Vdc

9000 Series

**Features**
- Multi-side solutions
- Linear CCD technology
- Complete omni-directional reading capabilities
- High reading performance on small and low quality codes
- Suitable for OCR and Video-coding applications
- LED lighting system available
- Image saving capability
- Easy installation, operation and maintenance
- Synergy with laser and RFID technology

**Applications**
- Parcel sorting and tracking applications
- Postal item sortation
- Mail order and distribution goods sorting
- Manufacturing applications
- 2D code reading applications
- Identification of low quality codes
- Parcel OCR and video-coding

**Specifications**
- **DV9500**
  - CCD Sensor: 6144 pixels, 4 taps
  - Image Resolution: 110 to 290 dpi
  - (application dependent)
  - Conveyor Coverage: Up to 1100 mm (43 in)
  - Depth of Field: Up to 1500 mm (19 in)
  - Conveyor Speed: Up to 3.0 m/s
  - Linear Codes: Code 128, Code 255, read: Interleaved 2/5, EAN/UPC and all popular barcodes
  - 2D codes read: PDF417, Datamatrix and all popular 2D codes, postal codes
  - Output data: Decoded label, high quality images
  - Data Output: Serial, Ethernet, Profibus, DeviceNet
  - Video Output: Camera Link, 1/132 bit LVDS
  - Robust industrial architecture and dust-proof design
Connectivity is one of Datalogic USS products’ key features. Connectivity means an easy and fast clustering of scanners: a high-speed LonWorks bus makes it possible to inter-connect a cluster of scanners without creating any bottlenecks in communication with the host. Moreover, connectivity entails interfacing the most popular industrial buses, like Profinet and Devicenet, or Ethernet, which is becoming more and more attractive since this bus is the ideal data link between office and factory floor levels. The 6000 family scanners offer built-in connectivity to Ethernet, Profinet and Devicenet. The SC6000 controller offers built-in connectivity to Ethernet, while the MX4000 is the ideal solution for connecting a series of scanners linked together in Data Collection mode to Profinet. With the new C-BOX, Datalogic offers an easy and inexpensive solution for point-to-point connectivity to Profinet or Devicenet.

### Products
- **SC6000**
- **MX4000**
- **C-BOX**

Datalogic’s flexibility in designing omni-directional reading systems makes it possible to always have the right product in the right spot, assuring an effective solution for any application specification. The combination of vision and laser technologies means being able to satisfy the customer’s needs with the ideal solution and the best price/performance ratio. The laser solution can be scaled in accordance with conveyor speed, reading area and other relevant specifications. The resulting system is designed with the ideal combination of the DS8100A, DX8200A and DS6500. The SC6000 controller collects and elaborates data received by the scanner, and provides users with a unique standard interface. Each device that makes up the omni-directional reading system has been designed to assure easy maintenance without requiring an expert scanner technician. Furthermore, the System Supervisor monitoring software allows remote monitoring, in real time, of the omni-directional reading systems and advises when maintenance is required.

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**Remote Control**

Sentinel Supervisor is a visual program based on the Windows OS platform and runs on a dedicated PC with an integrated Ethernet board. Sentinel provides a 3-level information structure (Plant level, Array level, Scanner level) to satisfy all the system’s remote control needs. The Sentinel program works with the built-in Ethernet versions of:

- **DS6300**
- **DS6400**
- **DS6500**
- **DS8100A**
- **DX8200A**
- **SC6000**

**Features**
- Monitors the behavior of multiple scanner arrays in a plant
- Collects data and displays it as visual onscreen information
- Offers statistics and diagnostic information at the plant, array and scanner levels
- All the collected information is available as report files in various formats, useful for post processing

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**Sentinel Supervisor**

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**Description**

Connectivity is one of Datalogic USS products’ key features.

**Features**

- Multi-side omni-directional barcode reading
- Serial, Ethernet, Profinet, Devicenet communication
- Quick maintenance without the need of an expert technician
- MTR (of each device in the solution) in less than 10 minutes
- Full diagnostics and statistics available
- Sentinel supervisor software for remote monitoring