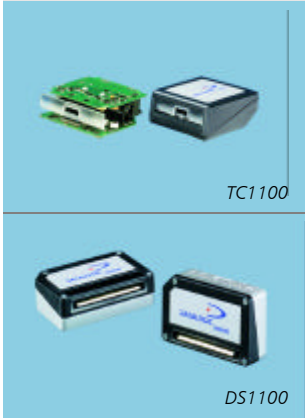# DATALOGIC
Your Life. Our Enthusiasm™

Unattended Scanning Systems
Product Range

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

1000 Series

TC1100

DS1100

>Features

- > Cost effective
- > Excellent reading capabilities
- > Wide reading width at a short reading distance
- > Very compact dimensions
- > Designed for OEM integration
- > Available with or without outer case
- > Available with direct or 90° reading window
- > Code reconstruction software embedded (TC1100)
- > Easy configuration via Windows-based programming tools

>Applications

- > 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

>Specifications

TC1100
Reading Technology: CCD
Scan Rate: 270 scans/s
Reading Range: 35 to 310 mm
Max Resolution: 0.076 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: 10 to 220 mm
Max Resolution: 0.12mm (5 mils)
Interfaces: RS232 / RS485
Window: Direct or 90° reading window with the same dimensions
Protection Class: IP65

2000 Series

DS2200

DS2100A & DS2400A

>Features

- > ACB™ Advanced Code Builder technology
- > Wide range of reading areas and scanning speeds
- > Reading distance up to 600 mm
- > Compact dimensions for direct and 90° reading
- > Ambient light immunity through high frequency laser light modulation
- > IP65 rugged industrial housing
- > Easy configuration via Windows-based programming tools

>Applications

- > Packaging machines
- > Chemical and biomedical analysis machines
- > Automated shopfloor
  - Items and parts tracking
  - Packaging and compliance
- > Automated warehousing
  - Conveyor sorting
  - Label verification
  - Picking systems
- > High speed pharmaceutical packaging
- > High speed document handling
- > Reverse Vending Machines (Cans and Bottles recycling)

>Specifications

DS2200
Reading Technology: Laser
Scan Rate: 500 (up to 2000) scans/s
Reading Range: 50 to 200 mm
Max Resolution: 0.076 mm (3 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)

4000 Series

DS4600A - 2XXX

DS4600A - 3XXX

>Features

- > Reading distance up to 1000 mm
- > Display and keypad available
- > Autolearning function
- > Great reading performance on low contrast barcodes
- > Multilabel reading
- > ACR™ code reconstruction technology
- > Oscillating mirror as a special accessory
- > Robust and reliable mechanical platform
- > Internal heater for cold environments

>Applications

- > Data collection and WIP Tracking for electric appliances, electronics, food & beverage
- > Data collection on carton boxes
- > Automated warehousing
  - Conveyor sorting
  - Label verification
  - Picking systems
  - Forklift truck
- > Automated shop floor
  - Items and parts tracking
  - Packaging
  - Compliance
  - Final assembly line

>Specifications

DS4600A
Reading Technology: Laser
Scan Rate: Up to 1000 scan/s
Reading Range: 50 to 1000 mm
Versions: High Density, Medium Range, Long Range
Programming Methods: WinHost™ configuration program Auto-learning function
Interfaces: RS232, RS485
Input/Output: Presence sensor + 2 input, 2 output programmable optocoupled
Decoder: Linear and ACR™
Display: Local echo, reading statistic
Power Supply: 10 to 30 Vdc
Protection Class: IP65

2D

Matrix

Matrix Series

>Features

- > CCD/CMOS based 2D reader for fixed industrial applications
- > Compact industrial unit integrating lighting, image capturing, decoding and communication
- > Direct or 90° reading window
- > 1D & 2D, stacked, postal code reading
- > Autolearning function
- > Code quality control (AIM)
- > Designed for easy integration in production lines, automatic machinery, data capture systems
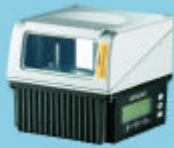
>Applications

- > WIP control/product traceability
- > Document and mail processing
- > PCB production line tracking
- > Direct Part Marking (DPM) applications
- > Semiconductor production line tracking
- > Chemical and biomedical analysis machines
- > Small objects/pharmaceutical packaging
- > CD/DVD identification
- > 96 vials rack reading

>Specifications

MATRIX-1000™
CCD matrix sensor
Read Rate: Up to 30 frames/s (1800 frames/min)
Max Pitch: ±35°; Tilt 360°
Interfaces: RS232, RS485 Half-Duplex
Input/Output: 1 input, 1 output; optocoupled
Power Supply: 10 to 30 Vdc; 4 W max.

MATRIX-2000™
CCD/CMOS matrix sensors
VGA/SXGA resolution sensors
Read Rate: Up to 60 frames/s (3600 frames/min)
Object Speed: Over 6.0 m/s
Max Pitch: ±35°; Tilt 360°
Interfaces: RS232, RS485, Ethernet
I/O: 2 inputs, 3 outputs; optocoupled
Power Supply: 10 to 30 Vdc; 8 W max.

6000 Series

DS6X00 Linear version

DS6X00 OM version

>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

DS6300
Scan Rate: Up to 1200 scan/sec
Reading Range : 300 to 2000 mm
Decoder: ACR™-3
Power Supply: 15 to 30 Vdc
Optics: Adjustable

DS6400
Scan Rate: Up to 1200 scan/sec
Reading Range : 300 to 2500 mm
Decoder: ACR™-3
Power Supply: 15 to 30 Vdc
Optics: FLASH™ dynamic

DS6500
Scan Rate: Up to 1200 scan/sec
Reading Range : 300 to 1800 mm
Decoder: ACR™-3
Power Supply: 15 to 30 Vdc
Optics: ASTRA™ double laser

8000 Series

DS8100A

DX8200A

>Features

- > Market benchmark for fixed position laser scanners
- > ASTRA™ multi-laser electronic focussing 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: Single
Scan Rate: 1000 scans/s
Reading Range: 500 to 2000 mm
Max Resolution: 0.2 mm (8 mils)
Dimensions: 215.5 x 170.5 x 126.5 mm
8.5 x 6.7 x 5.0 in
Protection Class: IP64 (IP65 optional)
Operating temperature: 0 to 50° C

DX8200A
Laser Pattern: Cross
Scan Rate: 1000 scans/s (500 each scan line)
Reading Range: 500 to 1500 mm
Max Resolution: 0.2mm (8 mils)
Dimensions: 470 x 300 x 147 mm
18.5 x 11.8 x 5.78 in
Protection Class: IP64 (IP65 optional)
Operating Temperature: 0 to 50° C

Ind. Boxes/Controllers

C-Box Line

SC6000

>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: GET/SEND/STORE configuration
Connectivity: RS232 to RS485 MUX32 protocol
Fieldbus Connectivity: Profibus/DP, Devicenet
Case material: ABS

MX4000
Main Feature: Data collection on RS485 bus
Connectivity: Profibus/DP
Remote Control and configuration
Power Supply: 10 to 30 Vdc
Case Material: Aluminium

SC6000
Main Feature: Based on Genius™SW platform
Compatibility: 6000/8000 scanner families
Display : 4 lines x 20 characters
Connectivity : Ethernet, Devicenet, Profibus
Power Supply: 24 Vdc
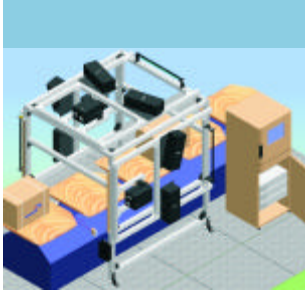

2D

9000 Series

DV9500

>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 260 dpi, (application dependent)
Conveyor Coverage: Up to 1100 mm (43 in)
Depth of Field: Up to 1000 mm (39 in)
Conveyor Speed: Up to 3.0 m/s
Linear codes read: Code 128, Code 39, 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, 16/32 bit LVDS
Robust industrial architecture and dust-proof design

>Description

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.

Products
> DV9500
> DS8100A
> DX8200A
> DS6500
> SC6000

>Features

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

>Description

Lonworks

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 Profibus 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, Profibus 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 Profibus. With the new C-BOX, Datalogic offers an easy and inexpensive solution for point-to-point connectivity to Profibus or Devicenet.

Products
> DS6300
> DS6400
> DS6500
> SC6000
> DS8100A
> DX8200A
> DV9500
> MX4000
> C-BOX

>Features

> Built-in connectivity to Ethernet, Profibus, Devicenet
> Profibus and Devicenet connectivity through C-BOX
> Profibus connectivity through MX4000 multiplexer
> Remote control
> WEB services with TCP/IP protocol
> EtherNet/IP, Profinet, Modbus protocols available

>Sentinel Supervisor

Sentinel Supervisor

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