

Unattended Scanning Systems Product Range



Bar Code Readers, Imagers and Vision Systems for Embedded and Industrial Solutions

EMBEDDED BAR CODE READERS

DS1100



- 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
- High speed pharmaceutical Packaging
- Document Handling machine
- Packaging machine

DS1500



DS2200



Features

- Cost effective
- Excellent reading capabilities
- Wide reading width at a short reading distance
- Very compact dimensions
- Designed for OEM integration
- ACB™ Advanced Code Builder technology (DS1500)
- Code reconstruction software embedded (TC1100)
- Motor on/off SW control
- Easy configuration via Windows-based programming tools
- Easy set up through WINHOST™
- Very high density code reading (up to 0.076 mm / 3 mils) (DS2200)

Specifications

TC1100

- CCD readers
- Scan Rate: 270 scans/s
- Reading Range: 35 to 310 mm
- Max Resolution: 0.076 mm (3 mils)
- "All in One" architecture: RS232/Wedge/Pen
- Power Supply: 5 Vdc

DS1100

- Scan Rate: 500 scans/s
- Reading Range: 10 to 220 mm
- Max Resolution: 0.12mm (5 mils)
- Motor on/off via software commands
- Power Supply: 5 Vdc

DS1500

- Ultra compact dimensions: 40x30x22 mm
- Scan Rate: 1200 scans/s
- Reading Range: 40 to 240 mm
- Max Resolution: 0.15 mm (6 mils)
- Test mode with bar graph
- Power Supply: 5 Vdc

DS2200

- Scan Rate: 500 (up to 2000) scans/s
- Reading Range: 50 to 200 mm
- Max Resolution: 0.076 mm (3 mils)
- Power supply: 5Vdc, 2W max
- Protection class: IP65

INDUSTRIAL BAR CODE READERS

DS2100N DS2400N



- 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)

DS4800



- Shop Floor and automated warehousing
- Medium / small conveyor sorting
- Reading on pallets
- Picking systems
- Items and parts tracking
- Process control systems

- Intuitive X-PRESS™ Human Machine Interface
- ID-NET™ embedded interface for high-speed communication network
- ACB™ Advanced Code Builder technology
- Compact dimensions for direct and 90° reading
- Ambient light immunity through high frequency laser modulation
- Reading distance up to 600 mm
- Multi-language Genius™ SW Tool allows rapid scanner configuration

DS2100N

- Scan rate: Up to 1000 scans/s
- Reading range: 30 to 310 mm
- Max resolution: 0.12 mm (5 mils)
- Power Supply: 10 to 30 Vdc, 5W max
- Protection class: IP65

DS2400N

- Scan Rate: 400 to 1000 scans/s
- Reading Range: 60 to 600 mm
- Max Resolution: 0.20 mm (8 mils)
- Power Supply: 10 to 30 Vdc, 5W max
- Protection class: IP65

DS4800

- ACR4™ Advanced Code Reconstruction
 - Scan Rate: up to 1000 scans/s
 - Reading Distance: up to 1000mm on 0.50mm (20 mils) codes
 - Depth Of Field: Up to 600mm on 0.50mm (20 mils) codes
 - Max Resolution: Up to 0.20 mm (8 mils)
 - Connectivity: RS232, RS485
 - I/O: 2 Inputs, 2 Outputs; optocoupled
 - Power Supply: 10 to 30 Vdc; 6W max
 - Protection Class: IP65
- Smart Focus adjustment for flexible reading area selection
 - DIGITECH™ technology allows excellent reading performance
 - Intuitive X-PRESS™ Human Machine Interface
 - ID-NET™ embedded interface for high-speed communication network
 - ACR4™ reconstruction technology improves reading of damaged barcodes
 - Multi-language Genius™ SW Tool allows rapid scanner configuration
 - Multi-language display improves scanner monitoring and diagnostic
 - Total ambient light immunity thanks to the high frequency laser modulation

DS6300
DS6400

- 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

- Modular solution based on a reading HEAD and decoder BASE
- Reading distance up to 2500 mm
- Adjustable, Flash™ (Dynamic), laser optics
- Step-A-Head™ feature
- ACR4™ code reconstruction technology
- Integrated oscillating mirror available
- Built-in connectivity to Ethernet/Devicenet/Profibus
- PackTrack™ tracking system
- Display and keypad
- Multi-language Genius™ SW Tool allows rapid scanner configuration

DS6300

- ACR4™ Advanced Code Reconstruction
- Scan Rate: Up to 1200 scan/sec
- Reading Range : 300 to 2000 mm
- Power Supply: 15 to 30 Vdc, 15W max
- Optics: Adjustable

DS6400

- ACR4™ Advanced Code Reconstruction
- Scan Rate: Up to 1200 scan/sec
- Reading Range : 300 to 2500 mm
- Power Supply: 15 to 30 Vdc, 15W max
- Optics: Flash™ (dynamic)

DS8100A



- 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

- Market benchmark for fixed position laser scanners
- ASTRA™ multi-laser electronic focussing system
- Automatic bar code distance measurement
- ACR4™ 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
- Multi-language Genius™ SW Tool allows rapid scanner configuration

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



- 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

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

DV9500



- Outstanding decoding performance on low quality labels under plastic film
- High reading performance on high speed conveyors
- Multi-side modular solution
- Linear CCD technology
- Advanced patented auto-focus system
- Image saving capability
- Easy replacement concept
- Diagnostics and remote control
- Easy integration with laser systems

- Postal and logistics applications
- Distribution applications
- Garment and Multimedia sorting
- Reverse Logistic Processes
- Suitable for OCR and Video-coding

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

IMAGERS

Applications

Features

Specifications

MATRIX 200™



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

- 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, composite, postal code reading
- Autolearning function
- Code quality control (ISO-IAQG)
- External Illuminators available as accessories
- Intuitive X-PRESS™ Human Machine Interface
- ID-NET™ embedded interface for high speed communication network
- Adjustable focus through C-Mount lenses (MATRIX 400™)
- Blue Diamonds™ aiming and focusing system (MATRIX 400™)
- USB connectivity (MATRIX 200™)

MATRIX 200™

- CMOS matrix sensor
- WVGA image resolution
- Read Rate: up to 60 frames/s
- Object speed: up to 2.0 m/s
- Connectivity: RS232, RS485, USB
- I/O: 2 Inputs, 2 Outputs; optocoupled
- Power Supply: 10 to 30 Vdc or 5 Vdc; 2.5W max
- Protection Class: IP65

MATRIX 400™



MATRIX 400™

- CMOS/CCD matrix sensors
- SXGA/UXGA image resolution
- Read Rate: up to 27 frames/s
- Object Speed: up to 6.0 m/s
- Connectivity: RS232, RS485, Ethernet
- I/O: 2 Inputs, 2 Outputs; optocoupled
- Power Supply: 10 to 30 Vdc; 8W max
- Protection Class: IP67

MATRIX-2000™



MATRIX-2000™

- CCD matrix sensor
- VGA image resolution
- Read Rate: up to 60 frames/s
- Object speed: up to 6.0 m/s
- Connectivity: RS232, RS485, Ethernet
- I/O: 2 Inputs, 3 Outputs; optocoupled
- Power Supply: 10 to 30 Vdc; 8W max
- Protection Class: IP64

CONTROLLERS

SC6000



- Sorting for Transportation & Logistics (Express Couriers, Postal applications)
- Sorting for Distribution (large Logistic/Distribution Centers)
- Sorting for Baggage Handling Systems

- Industrial controller for multi-side reading stations
- DARP™ (Datalogic Automatic Replacement Procedure) function
- High performing CPU
- GENIUS™ configuration program
- Display and 6-key keypad for diagnostics/statistics
- Built-in Ethernet, Profibus and Devicenet connectivity
- Modem connection

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 MX4000
- Main features: Data collection on RS485 bus
- Connectivity: Profibus/DP
- Remote control and configuration
- Power supply: 10 to 30 Vdc

CONNECTIVITY

CBX SERIES



- Manufacturing
- Shop Floor
- Warehousing

- IP65 (NEMA 4) rated industrial design
- Flexible mounting and simplified wiring to speed up the installation
- Reliable Backup and Restore feature to minimize plant downtime
- Comfortable connectivity to Ethernet, Profibus and DeviceNet network with open architecture for extensions
- Multilanguage Display for easy monitoring and troubleshooting
- Visible Power and I/O indicators and convenient Power on/off switch
- Code reader diagnosis and monitoring through display

CBX SERIES

- Display: 4 lines x 20 characters
- Power Supply: 10 to 30 Vdc, 2.5W max
- Protection Class: IP65 (NEMA4)
- Operating Temperature: -10 to 50°C

Description

Features

OMNI-SOLUTIONS



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 and DX8200A. 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 omnidirectional 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
- SC6000

- 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

SYSTEM SUPERVISOR SW



Datalogic WebSentinel™ SW supervisor offers a complete remote surveillance and control of a plant with a large number of multisided reading arrays. It collects data from the arrays through an Ethernet TCP/IP bus; it computes the received information flow as intuitive visual onscreen data and makes them accessible through the Internet.

Datalogic WebSentinel™ offers extended statistic and diagnostic information at plant, array and single scanner level. Ease of use is highly improved thanks to the multi-language capability system (English, Japanese, Korean, German, Italian, French, Spanish). Web Browser data access guarantees the ease of a standard access throughout any PC connected to the Internet. Scanning

system control, configuration and monitoring are easier than ever thanks to the Genius™ passthrough feature, which allows direct remote access even to the single device level. Datalogic WebSentinel™ supports all the main Datalogic products and can be configured up to 256 arrays on the plant.

- Multiple reading systems surveillance and monitoring
- Ideal base for maintenance programs
- Extended Diagnostics and Statistic
- Multilanguage support
- Remote data access through Web-browser
- Remote Maintenance through Genius™ integration
- Multiple-users support
- Supports up to 256 arrays

SERVICE



Datalogic Automation offers to its customers a wide range of formulas to take care of their products. **EASEOFCARE** is the new service of Datalogic Automation: it provides on line management of product repairs, including collection service from customers. **EASEOFCARE** supplies all the information needed to open an MRA (Material Return Authorization), product shipment, repair checking and repair fee payment.

Technical support

Datalogic Automation, through its technical support services and teams, plans and implements the barcode reading station to ensure that its products are installed and used in the best possible way. Service includes: preventive maintenance, emergency calls and processing of customer needs. Datalogic Automation has a network of over 100 certified Partners ensuring pre and post sales support worldwide.



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