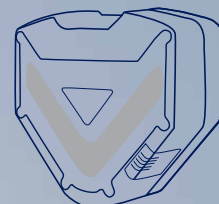
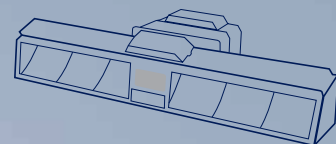


STATIONARY INDUSTRIAL SCANNERS

Product Guide



LASER BASED BAR CODE SCANNERS

APPLICATIONS

DS4800

Automated warehousing

- Medium/small conveyor sorting
- Pallet reading
- Automated storage and retrieval systems
- Picking systems
- Receiving / shipping systems

Automated Shopfloor

- Item and part tracking
- Process control systems
- Overall production traceability
- Packaging and compliance



Highlights

DS4800

- Manually adjustable focus with locking
- Ambient light immunity for outside applications
- Integrated multi-language display for setup, monitoring, and diagnostics
- ACR4™ Advanced Code Reconstruction
- Integrated oscillating mirror model available
- ID-NET™ embedded interface for high speed communication network
- All 1D codes including GS1

Technical data

DS4800

- Scan rate: up to 1000scans/s
- Reading distance: up to 1000mm on 0.50mm (20mils) codes
- Depth of field: up to 600mm on 0.50mm (20 mils) codes
- Max. resolution: up to 0.20mm (8mils)
- Connectivity: RS232, RS485
- I/O: 2 inputs, 2 outputs; optocoupled
- Power supply: 10 to 30VDC; 6W max.
- Protection class: IP65
- Operating temperature: -35°C to 50°C (subzero model), 0°C to 50°C (standard model)

DS5100

Manufacturing

- Automotive: WIP Control, Parts Traceability
- Food & Beverage: Shipping Process, End of Line Palletizing
- Pharmaceutical: Secondary Package Control
- Warehousing: Tote Tray Identification, Automatic Picking Process Control



Highlights

DS5100

- Selectable focus system
- Display and multi-language messages
- ID-NET™ embedded interface for high speed communication network
- Genius™ (Windows™ based) SW
- Serial Host Mode Programming sequences

Technical data

DS5100

- 800-1000 scans /sec
- 2 inputs + 2 outputs
- RS232 + RS485 serial port, Ethernet, Profinet
- Typical reading range of 200 – 1350 mm
- Subzero ver. up to -35°C (-31°F)
- Power supply: 10-30 Vdc
- Protection class: IP65
- Ethernet Bus Connections (EBC) for high speed data transmission and real time synchronization (as slave with 8k)

DS6300/DS6400

- Automated warehousing
- Electronic industry manufacturing
- Shopfloor on automotive, electric appliances, food & beverage
- Sorting on logistic and distribution lines
- Omni-sorting on small conveyors



Highlights

DS6300/DS6400

- Adjustable or Flash™ (Dynamic) laser optics
- Step-A-Head™ feature
- ACR4™ Advanced Code Reconstruction
- Integrated oscillating mirror models available
- Built-in connectivity to Ethernet/Devicenet/Profibus networks
- PackTrack™ tracking system
- Embedded display and keypad
- Genius™ (Windows™ based) SW

Technical data

DS6300/DS6400

- Optics: adj. (DS6300) Flash™ (Dynamic) (DS6400)
- Scan rate: Up to 1200scan/s
- Reading range: 250 to 2000mm (DS6300) 300 to 2500mm (DS6400)
- Max. resolution: up to 0.2mm (8mils)
- Connectivity: RS232, RS485, EtherNet IP, Ethernet TCP/IP
- I/O: 4 inputs, 3 outputs; optocoupled
- Power supply: 15 to 30VDC, 15W max.

DS8110/DX8210

- Airport Baggage Handling
- Parcel Sorting
- Retail Distribution Center
- Loading/Unloading System
- Shop Floor and Manufacturing
- Automatic Warehousing Management



Highlights

DS8110 linear barcode scanner/ DX8210 omnidirectional barcode scanner

- ALL-IN-ONE architecture (DX8210)
- Top class reading performance
- Excellent performance on Low quality code
- DST (Digital Signal Technology) offering stable and constant performance at any operative conditions
- Multi laser ASTRA G3 technology
- Ethernet Bus Connections
- Fully redundant configuration, no single point of failure
- Compact mechanical dimensions
- Unmatchable ease of use and ease of installation
- e-GENIUS web browser programming tools
- Modular architecture and building block configurations
- Ease maintenance and automatic replacement
- Genius™ (Windows™ based) SW

Technical data

DS8110

- Scan pattern type: linear
- Scan rate: 1000 scans/s
- Reading range: 500 to 1900mm
- Max. resolution: min 0.25mm/max 0.50 mm
- Dimensions: 216 x 96 x 127 mm [8.5 x 3.8 x 5 in]
- Protection class: IP65
- Operating temperature: 0°C to 50°C
- Factory warranty: 2 years

DX8210

- Scan pattern type: X-Pattern
- Scan rate: 1000scans/s
- Max. resolution: min 0.25mm/max 1.0 mm
- Dimensions: 381 x 328 x 92.5 mm [15 x 13 x 3.6 in]
- Protection class: IP65
- Operating temperature: 0°C to 50°C
- Factory warranty: 2 years

LASER BASED BAR CODE SCANNERS

APPLICATIONS

TC1200/DS1100

- Access control systems
- ATL (Automated Tape Libraries)
- Self service systems (ATM, kiosks)
- OEM integration in automatic machines
- Game automation (Lotto, Lottery, etc.)
- Chemical and blood analysis machines
- Print & apply systems
- Film processing machines
- Shipping & Receiving
- Cross docking



TC1200

DS1100

Highlights

TC1200

- Cost-effective
- Embedded code reconstruction software
- Very high density code reading (up to 0.1mm / 4mils)
- Scanner and scan engine version
- No moving part (MTBF>200.000 hours)
- Designed for OEM integration

DS1100

- Cost-effective
- Direct or 90° reading window
- Motor on/off SW control
- Designed for OEM integration

Technical data

TC1200

- CCD reader
- Scan rate: up to 320scans/s
- Reading range: 50 to 430mm
- Max. resolution: 0.1mm (4 mils)
- RS232 and USB model
- Power supply: 5VDC, 2W max.

DS1100

- Scan rate: up to 500scans/s
- Reading range: 10 to 220mm
- Max. resolution: 0.127mm (5mils)
- Motor on/off via software commands
- Power supply: 5VDC, 2W max.
- Protection Class: IP65

DS1500/DS2200

- OEM integration in automatic machines
- Chemical and biomedical analysis machines
- Document handling machines
- Print & apply systems
- High speed pharmaceutical packaging
- Packaging machines
- ATL (Automated Tape Libraries)



DS1500

DS2200

Highlights

DS1500

- Extremely compact size
- Excellent reading capabilities
- Designed for OEM integration
- ACB™ Advanced Code Builder
- Motor on/off SW control

DS2200

- Compact dimensions
- Excellent reading capabilities for high density codes
- Designed for OEM integration
- Very high density code reading (up to 0.076mm / 3mils)

Technical data

DS1500

- Dimensions: 40x30x22mm
- Scan rate: up to 1200scans/s
- Reading range: 40 to 240mm
- Max. resolution: 0.10mm (4mils)
- Test mode with bar graph
- Power supply: 5VDC, 2W max.
- Protection class: IP65

DS2200

- Dimensions: 50x40x28mm
- Scan rate: 500scans/s (1000scans/s on demand)
- Reading range: 50 to 200mm
- Max. resolution: 0.076mm (3mils)
- Power supply: 5VDC, 2W max.
- Protection class: IP65

DS2100N/DS2400N

Automated warehousing

- Conveyor sorting
- Picking systems
- Automated storage and retrieval systems
- Tote Reading

Automated Shopfloor

- Item and part tracking
- Process control and packaging
- Packaging and compliance

OEM

- High speed document handling machines
- Print & apply systems
- Automatic chemical and biomedical analysis machines
- Reverse vending machines (can and bottle recycling)



Highlights

DS2100N/DS2400N

- Embedded Ethernet connectivity
- Two Profinet Ports
- Embedded Ethernet Switch
- Rotating connector block
- Compact dimensions
- Installation flexibility and optimum form factor
- ACR4™: Advanced Code Reconstruction
- Excellent performance on low quality and damaged labels
- DS2100: Up to a 300 mm (11.8 in.) reading distance
- DS2400: Up to a 600 mm (23.6 in) reading distance

Technical data

DS2100N

- Scan rate: up to 1000scans/s
- Reading range: 50 to 300mm
- Max. resolution: 0.12mm (5mils)
- Power supply: 10 to 30VDC, 4W max.
- Protection class: IP65
- I/O: 2 inputs, 2 outputs; optocoupled

DS2400N

- Scan rate: up 1000scans/s
- Reading range: 70 to 600mm
- Max. resolution: 0.12mm (5mils)
- Power supply: 10 to 30VDC, 4W max.
- Protection class: IP65
- I/O: 2 inputs, 2 outputs; optocoupled
- Operating temperature: 35°C to 45°C (subzero model), 0°C to 45°C (standard model)

IMAGE BASED BAR CODE READERS

APPLICATIONS

MATRIX 120™

Electronics

- Track and trace PCB board manufacturing

Manufacturing

- Print & Apply – label verification
- Food & Beverage – traceability

OEM

- Kiosks – ticketing machine

Healthcare

- Clinical Lab – vials identification
- Chemical and biomedical analysis machine



Highlights

MATRIX 120™

- Ultra compact dimensions for easy integration
- Smart user selectable focus for high application flexibility
- ESD Version for electronic applications
- Polarized Version for 90° mounting and reflecting surfaces
- DL.Code sw configurator for outstanding ease of setup
- Xpress, Green spot and intuitive HMI for top ease of use

Technical data

MATRIX 120™

- WVGA – 1,2MP Models and Wide angle model
- Embedded Ethernet connectivity
- Serial and USB on the same model
- Top Industrial grade: IP65
- Operating temperature: 0-45°C
- Supply Voltage: 5 to 30 Vdc

MATRIX 210™

Electronics

- PCB board tracking
- Electronic product tracking

Medical & pharmaceutical

- Medical device traceability
- Pharmaceutical supply chain traceability

OEM

- Chemical & biomedical analysis
- Access control systems
- Self service systems (ATM, kiosks)
- Print & apply systems
- Document handling



Highlights

MATRIX 210™

- Integrated Ethernet, PROFINET, EtherNet IP
- Electronic focus control option
- High performance DPM bar code reading
- Outstanding decoding capability on DPM and labeled 1D & 2D standard codes
- Straight and right angle models for smart mounting
- ID-NET™ reader clustering/networking
- Industrial Protection: ESD-safe, YAG, IP65
- DL.CODE™ configuration SW and X-PRESS™ for easy and intuitive setup

Technical data

MATRIX 210™

- Extremely compact dimensions: 50x25x45mm & 54x45x32mm
- High speed integrated EtherNet for real time image transfer
- WVGA image resolution, 60 frames/s
- Object speed: up to 2.0m/s
- Connectivity: Ethernet 10/100: EtherNet IP, PROFINET, TCP/IP, UDP, FTP, MODBUS TCP
- Serial RS232/RS422/RS485 up to 115.2 Kbit/s + Aux RS232
- IP65, 0-50°C

MATRIX 220™

Electronics

- Tracking/tracing of electronic products and components
- DPM bar code reading

Automotive

- DPM code validation after marking
- Work-in-progress control, parts and assembly traceability

Packaging

- Primary packaging bar code reading
- Package traceability
- Food and beverage application

Document handling

- Fast decoding for high speed applications



Highlights

MATRIX 220™

- Compact dimension and superior performance in its class
- New red and blue-light All-In-One DPM illuminator for strong DPM reading performance
- Top performing High Power Illuminator models for challenging high speed applications
- Smart electronic focus control for high reading flexibility
- Total connectivity to main industrial Fieldbus
- Easy installation and setup thanks to DL.CODE software
- ESD and Anti-YAG protection as front cover accessory for extreme flexibility and optimized stock
- New flexible cables suitable for robotic arms applications

Technical data

MATRIX 220™

- New multicore image processing platform excellent for high speed applications
- Hardware Acceleration to speed up algorithms and improve decoding capabilities
- 1.2 MP high resolution image sensor
- Embedded Ethernet/IP and Profinet-I0 industrial fieldbus
- Power over Ethernet (PoE) option available
- IP65 and IP67 industrial grade for harsh environments
- Operating temperatures: -10 °C to 50°C (14 °F – 122 °F)

MATRIX 300™

Manufacturing

- DPM code validation after marking
- Work-in-progress control
- Parts and assemblies traceability
- Work-in-progress traceability

Document Processing

- High speed process control

Medical

- Medical device traceability

Clinical Lab Automation

- Biomedical analysis machines
- Specimen collection machines

Logistics Automation

- Carton and tote traceability
- Automated warehousing



Highlights

MATRIX 300™

- Ultra-compact dimensions
- High performance DPM reading
- Liquid Lens Dynamic Focus Control
- Integrated dual illuminator: dark field/bright field
- Fast and high resolution image sensor
- Power over Ethernet Option and onboard PROFINET-I0
- Extreme Industrial grade: IP65-IP67
- Industrial grade for harsh environments, 0-50°C operating temperature
- DL.CODE™ configuration SW and X-PRESS™ for easy and intuitive setup

Technical data

MATRIX 300™

- Manual and electronic focus control
- CMOS global shutter sensor
- 1280 x 1024 (1.3 megapixels) image resolution
- Read rate: 60frames/s
- Connectivity: Ethernet 10/100: EtherNet IP, TCP/IP, UDP, FTP, MODBUS TCP, Serial RS232/RS422/RS485 up to 115.2 Kbit/s + Aux RS232,
- On-board PROFINET-I0
- IP65-IP67, 0-50°C

IMAGE BASED BAR CODE READERS

APPLICATIONS

MATRIX 410N™

Automotive

- Part traceability in assembly

Distribution & retail industry

- Manual Presentation
- Small Objects Sorting
- Totes content scanning

Medical & pharmaceutical

- Automated storage/retrieval
- Automated Order fulfillment/validation

Warehouse

- End of line, Carton/objects, single or multi-side scanning



Highlights

MATRIX 410N™

- Patented continuous high power mode lighting
- Patented Packtrack 2D for short object gapping in sortation applications
- Embedded Ethernet connectivity, with Profinet, EtherNet IP, TCP/IP, FTP, HTTP
- On board image storage saving up to 3,000 image (scaled)
- External connection box with parameter back up memory and display
- Remote, web-based WebSentinel software with image archiving database
- DL.CODE™ configuration SW and X-PRESS™ for easy and intuitive setup

Technical data

MATRIX 410N™

- Operating temperature:
 - Manual Focusing models: 0° to + 50 °C (32 to 122°F)
 - Electronic Liquid Lens models: -20° to + 70 °C (-4 to 158°F)
- On board image storage saving up to 3,000 image (scaled)
- Protection class: IP65-IP67
- CMOS global shutter sensor
- 1.3 or 2.0 MP, 45-60 frames/s
- Connectivity: Ethernet 10/100: Ethernet IP, PROFINET, TCP/IP, UDP, FTP, MODBUS TCP Serial RS232/RS422/RS485 up to 115.2 Kbit/s + Aux RS232

MATRIX 450N™

Transportation and Logistics

- Automated sorting
- Manual postal sorting
- Loading / unloading

Distribution & Retail

- Order fulfillment and verification
- Multimedia sorting
- Reverse logistic processes
- Static scanning



Highlights

MATRIX 450N™

- Very large reading area, FOV and DOF
- Outstanding dynamic reading capabilities, up to 3.2 m/s on 0.30 mm resolution 1D code
- White and Blue illumination options
- Patented Packtrack function for object gap tolerance up to 50 mm (2 in)
- ID-NET™ readers clustering to extend the reading area coverage on single side and multi-side applications
- Persistent Image Saving on specific reading results (No Read) for diagnostics or reporting
- DL.CODE™ configuration SW and X-PRESS™ for easy and intuitive setup

Technical data

MATRIX 450N™

- 5MP image sensor, 15 FPS
- Gigabit Ethernet Integrated Connectivity
- C-Mount Lenses, focal length: 16 mm, 25 mm, 35 mm, 50 mm
- Data output: RS232/RS485, Ethernet
- I/O: 2 inputs, 2 outputs; optocoupled
- Protection class: IP65
- Operating temperature: 0°C to 50°C
- Supply Voltage: 24 Vdc ± 20%
- Factory warranty: 2 years

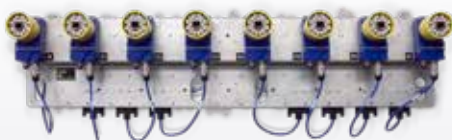
STS 400™

Transportation and Logistics

- Postal and courier express sorting
- Solution for tires traceability and sorting
- Revenue recovery
- Reverse logistic processes

Distribution & Retail

- Large distribution centres
- Multimedia sorting
- Receiving / shipping systems



Highlights

STS 400™

- Easy to install: 100% pre-assemble calibrating
- Easy to maintain
- Simple and lean: simple and regulated render layout which avoids articulated mounting patterns
- Long-term reliability: no moving on board guarantee reliability and longer life-cycle
- Ready for the future: compatible with changing requirements such as downsizing of code heights or introduction of cd codes

Technical data

STS 400™

- 5 to 8 clustered Matrix 410
- 2 MPixels imagers sensor
- Interfacing CBX500 with display and back up memory
- Persistent Image Saving on specific reading results (No Read) for diagnostics or reporting
- IP65, 0-50° operating temperature
- Ethernet, Profinet and Ethernet IP embedded

XRF 410N™

- E-Commerce
- General material handling with reusable totes
- Medium object sortation for couriers
- Postal Sorting
- End-of-line



Highlights

XRF 410N™

- Easy to select the correct model
- Easy to install
- Increase customer productivity
- Ease of use
- Solves the most demanding sortation applications
- Easy to monitor and validate status
- Patented Packtrack function for object gap tolerance up to 50 mm (2 in)

Technical data

XRF 410N™

- Full working solutions in one order number
- Factory calibration, optimized for code resolutions 0.25 mm, 0.33 mm, 0.38 mm
- Factory calibration, optimized for speeds up to 2.2 m/s
- Ethernet connectivity on board
- Power supply: 24 VDC
- Protection class: IP67

IMAGE BASED BAR CODE READERS

APPLICATIONS

AV7000™

Transportation and Logistics

- Postal and courier express sorting
- Revenue recovery
- Reverse logistic processes
- OCR and Videocoding
- Extended ID and Image saving

Distribution & Retail

- Large distribution centres
- Receiving / shipping systems
- Multimedia sorting



Highlights

AV7000™

- Single view high quality picture on large conveyor (1400 mm/55 inch)
- Excellent reading performances on high speed conveyors: 4.8m/s (945fpm)
- Patented Pulsed Lighting System to reduce reading station footprint 2.2m (7ft)
- Patented Autofocus System offering extended DoF
- Patented Digital Zoom technology assuring constant DPI resolution
- New generation decode algorithm to read very bad quality label
- Multiple format Image saving from full definition to highly compressed JPG
- Integration with dimensioning and scale system

Technical data

AV7000™

- CMOS linear sensor: 8192 pixels
- Image resolution: 110-260DPI (application dependant)
- Scan rate: 33KHz
- Readable symbologies: all standard 1D and 2D codes
- High quality Image for OCR and Videocoding
- Connectivity: RS232/RS485, Ethernet
- Video output: Gigabit Ethernet, CC-Link
- Protection class: IP65
- Operating temperature: 0°C to 50°C
- Factory warranty: 2 years

DIMENSIONER

APPLICATIONS

DM3610 1-Head Solution

- Parcel revenue recovery
- Distribution Center spatial management
- Automated shipping and manifesting systems
- Trailer load planning



Highlights

DM3610 1-Head Solution

- NTEP, OIML and MC certified for Legal for Trade applications on belt conveyors
- NTEP and OIML certified for Legal for Trade applications on cross-belt
- Works for cuboidal
- Works for singulated and non-singulated package flows

Technical data

DM3610 1-Head Solution

- Only cuboidals
- Singulated (spacing >20mm)
- Accuracy of ±5mm at transport speeds up to 3.1 m/s
- Maximum box size 2500mm x 1200mm x 900mm
- Operating temperature: 0°C to 50°C
- IP 65
- Factory warranty: 2 years

DM3610 2-Head Solution

- Parcel revenue recovery
- Distribution Center spatial management
- Automated shipping and manifesting systems
- Trailer load planning



Highlights

DM3610 2-Head Solution

- NTEP and OIML certified for Legal for Trade applications on belt conveyor and cross-belt
- Works for cuboidal and irregular package flows
- Works for singulated and non-singulated package flows
- Reduced shadowing

Technical data

DM3610 2-Head Solution

- Cuboidals and Irregulars
- Singulated (spacing > 25mm)
- Accuracy of ±5mm at transport speeds up to 3.1 m/s
- Up to 3.1 m/s (620 fpm)
- Maximum LWH = 2500x1600x1000mm
- Operating temperature: 0°C to 50°C
- IP 65
- Factory warranty: 2 years

CONNECTIVITY DEVICES

WIDE RANGE OF **CONNECTIVITY**
FOR THE IDENTIFICATION PRODUCT RANGE
WITH STANDARD IP65 (NEMA4) PROTECTION CLASS
AND OPERATING TEMPERATURE UP 0 TO 50°C.

CBX SERIES

- Simplified wiring to speed up installation
- Scalable and modular connectivity
- Base and extended models
- Modular field bus connectivity
- Optional backup/restore module
- Optional display
- Low temperature model



SC SERIES

- Protection class: IP65 (NEMA4)
- Operation temperature: 0 to 50°C
- Network or cluster controller
- Dedicated data-collector for maximum reading performance
- Scalable and modular connectivity
- Backup/restore module
- Maximum compatibility and scalability
- Ethernet TCP/IP, EtherNet IP, Profibus, DeviceNet (QLM series)
- Factory warranty SC4000/SC5000: 2 years



QL SERIES

- Easy, fast, modular and cost-effective solution with "plug-in connection"
- Ethernet TCP/IP and EtherNet IP (QL500)





Rev. 17, 02/2019



9C0002870

Product and Company names and logos referenced may be either trademarks or registered trademarks of their respective companies. We reserve the right to make modifications and improvements.
Subzero models are not available for offer, sale or distribution in Germany.

www.datalogic.com