LASER BASED BAR CODE SCANNERS

APPLICATIONS

TC1200/DS1100

- Access control systems
- ATL (Automated Tape Libraries)
- Self service systems (ATM, kiosks)
- . 0EM integration in automatic machines
- Game automation (Lotto, Lottery, etc.)
- Chemical and blood analysis machines
- Print & apply systems
- Film processing machinesShipping & Receiving Cross docking





DS1500/DS2200

- OFM 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





DS2100N/DS2400N

- **Automated warehousing** Conveyor sorting
- · Picking systems
- Automated storage and retrieval systems
- Tote Reading
- **Automated Shopfloo** Item and part tracking
- Process control and packaging

Packaging and compliance

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





TC1200

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

Technical data

• Reading range: 40 to 240mm

• Power supply: 5VDC, 2W max.

Test mode with bar graph

Protection class: IP65

• Dimensions: 50x40x28mm

• Reading range: 50 to 200mm

Max. resolution: 0.076mm (3mils)

• Power supply: 5VDC, 2W max.

Protection class: IP65

• Scan rate: 500scans/s (1000scans/s on

• Max. resolution: 0.10mm (4mils)

DS1500

- Extremely compact size • Excellent reading capabilities
- Designed for OEM integration
- Motor on/off SW control

Compact dimensions

- Designed for OEM integration
- Very high density code reading (up to

DS1500

DS2200

- Dimensions: 40x30x22mm • Scan rate: up to 1200scans/s
- ACB™ Advanced Code Builder

Excellent reading capabilities for high

Highlights

DS2100N/DS2400N Embedded Ethernet connectivity

• Two Profinet Ports

damaged labels

- Emhedded Ethernet Switch Rotating connector block Compact dimensions
- Installation flexibility and optimum form
- ACR4™: Advanced Code Reconstruction • Excellent performance on low quality and
- DS2100: Up to to a 300 mm (11.8 in.)
- DS2400: Up to a 600 mm (23.6 in) reading

DS2100N

- Reading range: 50 to 300mm
- Protection class: IP65 • I/O: 2 inputs, 2 outputs; optocoupled

- Reading range: 70 to 600mm Max. resolution: 0.12mm (5mils)
- I/O: 2 inputs, 2 outputs; optocoupled • Operating temperature: 35°C to 45°C (subzero model), 0°C to 45°C (standard

Technical data

• Scan rate: up to 1000scans/s

- Max. resolution: 0.12mm (5mils) Power supply: 10 to 30VDC, 4W max.

DS2400N

- Scan rate: up 1000scans/s
- Power supply: 10 to 30VDC, 4W max. Protection class: IP65



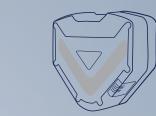
ODATALOGIC



www.datalogic.com

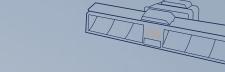
STATIONARY SCANNERS

Product Guide









ODATALOGIC

DS4800

- Medium/small conveyor sorting
- Picking systems
- **Automated Shopfloor**
- Overall production traceab

Manufacturing

DS5100

- Food & Beverage: Shipping
- Pharmaceutical: Secondary
- Warehousing: Tote Tray Identification, Automatic Picking Process Control

DS6300/DS6400

- Automated warehousing
- Electronic industry manufacturing

- Sorting on logistic and distribution lines Omni-sorting on small conveyors.
- Built-in connectivity to Ethernet/Devicenet/

Step-A-Head™ feature

DS6300/DS6400

Embedded display and keypad Genius™ (Windows™ based) SW

 Airport Baggage Handling Parcel Sorting

DS8110/DX8210

- Retail Distribution Center
- Loading/Unloading System Shop Floor and Manufacturing Automatic Warehousing Management
- stable and constant performance at any operative conditions
- Modular architecture and building block
- Ease maintenance and automatic replacement Genius™ (Windows™ based) SW

• Factory warranty: 2 years

APPLICATIONS

- Pallet reading
- · Automated storage and retrieval systems
- Receiving / shipping systems
- Item and part tracking Process control systems
- Packaging and compliance
- Automotive: WIP Control Parts
- Process, End of Line Palletizing
- Package Control
- Genius™ (Windows™ based) SW • Serial Host Mode Programming sequences

speed communication network

• Display and multi-language messages

ID-NET™ embedded interface for high

Selectable focus system

- · Shopfloor on automotive, electric appliances, food & beverage
- ACR4™ Advanced Code Reconstruction Integrated oscillating mirror models
- Profibus networks

Adjustable or Flash™ (Dynamic) laser optics

PackTrack™ tracking system

DS8110 linear barcode scanner/ DX8210 omnidirectional barcode scanner

- ALL-IN-ONE architecture (DX8210) Top class reading performance
- Excellent performance on Low quality code • Dimensions: 216 x 96 x 127 mm [8.5 x 3.8 • DST (Digital Signal Technology) offering
 - Operating temperature: 0°C to 50°C

 - Max. resolution: min 0.25mm/max 1.0 mm • Dimensions: 381 x 328 x 92.5 mm [15 x 13
- e-GENIUS web browser programming tools x 3.6 in1 • Protection class: IP65

LASER BASED BAR CODE SCANNERS

Automated warehousing

- Integrated multi-language display for setup,
 - monitoring, and diagnostics ACR4™ Advanced Code Reconstruction

Manually adjustable focus with locking

Ambient light immunity for outside

- Connectivity: RS232, RS485 • Integrated oscillating mirror model available ID-NET™ embedded interface for high I/O: 2 inputs, 2 outputs; optocoupled
- speed communication network Power supply: 10 to 30VDC; 6W max. All 1D codes including GS1 • Protection class: IP65
 - Operating temperature: -35°C to 50°C (subzero model), 0°C to 50°C (standard model)

Technical data

(20 mils) codes

Scan rate: up to 1000scans/s

Reading distance: up to 1000mm on

• Depth of field: up to 600mm on 0.50mm

. Max. resolution: up to 0.20mm (8mils)

DS5100 • 800-1000 scans /sec • 2 inputs + 2 outputs

Technical data

- 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)

- **Technical data** DS6300/DS6400
- Optics: adj. (DS6300) Flash™ (Dynamic)
- 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.
- Fthernet TCP/IP • I/O: 4 inputs, 3 outputs; optocoupled • Power supply: 15 to 30VDC, 15W max.

Technical data

- Scan pattern type: linear • Scan rate: 1000 scans/s
- Reading range: 500 to 1900mm • Max. resolution: min 0.25mm/max 0.50 mm
- Protection class: IP65
- Factory warranty: 2 years
- Scan pattern type: X-Pattern Scan rate: 1000scans/s
- Operating temperature: 0°C to 50°C





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 identificatio

Chemical and biomedical analysis machine

MATRIX 210N™

Electronics

· PCB board tracking

Medical device traceabilit

traceability

0EM

- Chemical & biomedical analysis
- Self service systems (ATM, kiosks)
- Document handling

MATRIX 220™

Electronics

nroducts and components DPM bar code reading

Automotive

Work-in-progress control parts

Packaging



Food and beverage application

Manufacturing

- Work-in-progress control
- 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

MATRIX 120™

- Ultra compact dimensions for easy integration
- application flexibility
- Polarized Version for 90° mounting and
- DL.Code sw configurator for outstanding
- ease of use

- - Supply Voltage: 5 to 30 Vdc

Electronic product tracking

Medical & pharmaceutic



- Print & apply systems

• Tracking/tracing of electronic

· DPM code validation after markin

and assembly traceability

• Primary packaging bar code

Package traceability

Document handling Fast decoding for high speed applications

MATRIX 300N™

· DPM code validation after marking

- · Parts and assemblies traceability
 - Integrated dual illuminator: dark field/bright

 - PROFINET-IO

 - 0-50°C operating temperature DL.CODE™ configuration SW and X-PRESS™

Highlights

- Smart user selectable focus for high
- ESD Version for electronic applications
- reflecting surfaces
- ease of setup Xpress, Green spot and intuitive HMI for top

• WVGA - 1.2MP Models and Wide angle

- Embedded Ethernet connectivity
- Operating temperature: 0-45°C

Highlights

- MATRIX 210N™
 - 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
 - ID-NET™ reader clustering/networking Industrial Protection: ESD-safe, YAG, IP65
 - DL.CODE™ configuration SW and X-PRESS™ for easy and intuitive setup

- MATRIX 220™
 - in its class New red and blue-light All-In-One DPM
 - illuminator for strong DPM reading performance
 - for challenging high speed applications Smart electronic focus control for high reading

 - ESD and Anti-YAG protection as front cover accessory for extreme flexibility and optimized
 - stock flexibility, reducing the number of models and simplifying the stock management New flexible cables suitable for robotic arms

applications

- Ultra-compact dimensions

- for easy and intuitive setup

MATRIX 120™

- Serial and USB on the same model

Technical data

- MATRIX 210N™ • Extremely compact dimensions:
- 50x25x45mm & 54x45x32mm • High speed integrated EtherNet for real time

PROFINET, TCP/IP, UDP, FTP, MODBUS TCP

- image transfer WVGA image resolution, 60 frames/s
- Object speed: up to 2.0m/s Connectivity: Ethernet 10/100: EtherNet IP
- Serial RS232/RS422/RS485 up to 115.2 Kbit/s + Aux RS232

• IP65, 0-50°C

Technical data

- MATRIX 220™ Compact dimension and superior performance
- Top performing High Power Illuminator models
 - 1.2 MP high resolution image sensor Embedded Ethernet/IP and Profinet-IO
- industrial fieldbus Total connectivity to main industrial Fieldbus Easy installation and setup thanks to DL.CODE • Power over Ethernet (PoE) option available
 - Operating temperatures: -10 °C to 50°C

- High performance DPM reading
- Fast and high resolution image sensor
- Extreme Industrial grade: IP65-IP67
- IP65-IP67, 0-50°C

Technical data

- Top Industrial grade: IP65

Totes content scanning

· Automated storage/retrie · Automated Order fulfilmen

validation Warehouse

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

- Transportation and Logistics
- Automated sorting
- Distribution & Retail
- and verification Multimedia sorting



processes Static scanning

• New multicore image processing platform excellent for high speed applications

- algorithms and improve decoding STS 400™ Transportation and Logistics
 - Revenue recovery
- IP65 and IP67 industrial grade for harsh

· Hardware Acceleration to speed up

MATRIX 300N™

- Liquid Lens Dynamic Focus Control
- Power over Ethernet Option and onboard
- Industrial grade for harsh environments,

Technical data

MATRIX 300N™

 CMOS global shutter sensor • 1280 x 1024 (1.3 megapixels) image

IP. TCP/IP. UDP. FTP. MODBUS TCP. Serial

RS232/RS422/RS485 up to 115.2 Kbit/s +

. Manual and electronic focus control

- Read rate: 60frames/s • Connectivity: Ethernet 10/100: EtherNet
- Aux RS232, On-board PROFINET-IO

IMAGE BASED BAR CODE READERS

APPLICATIONS

MATRIX 410N™

Automotive

· Part traceability in assembly

Distribution & retail industry Manual Presentation · Small Objects Sorting

Medical & pharmaceutical

- MATRIX 450N™
- Manual postal sorting Loading / unloading
- Order fulfillment



STS 400™

XRF 410N™

Easy to install

- Postal and courier express sorting Solution for tires traceability and sorting
- Reverse logistic processes Distribution & Retail Large distribution centres

Multimedia sorting



XRF 410N™

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



MATRIX ∆10N™

Highlights

- Patented continuous high power mode
- 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
- Remote, web-based WebSentinel software with image archiving database

Very large reading area, FOV and DOF

for easy and intuitive setup

MATRIX 450N™

- · Outstanding dynamic reading capabilities, up to 3.2 m/s on 0.30 mm resolution 1D code
- 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 results (No Read) for diagnostics or reporting DL.CODE™ configuration SW and X-PRESS™

STS 400™

calibrating Fasy to mantain Simple and lean: simple and regulated

changing requirements such as downsizing

of code heights or introduction of cd codes

render layout which avoids articulated

2 MPixels imagers sensor

mounting patterns · Long-term reliability: no moving on board guarantee reliability and longer life-cycle Ready for the future: compatible with

Technical data

Fasy to monitor and validate status Patented Packtrack function for object gap

• Solves the most demanding sortation

XRF 410N™

Data output: RS232/RS485, Ethernet

5 to 8 clustered Matrix 410

• Full working solutions in one order number

- 1.3 or 2.0 MP. 45-60 frames/s
- up memory and display • DL.CODE™ configuration SW and X-PRESS™

- MATRIX 450N™
- White and Blue illumination options
- multi-side applications ersistent Image Saving on specific reading

back up memory Persistent Image Saving on specific

to 2.2 m/s

resolutions 0.25 mm, 0.33 mm, 0.38 mm Factory calibration, optimized for speeds up

· Ethernet connectivity on board

Large distribution centres Receiving / shipping systems

APPLICATIONS

Transportation and Logistics

DIMENSIONER

Postal and courier express sorting
Extended ID and Image saving

Reverse logistic processes

Distribution & Retail

OCR and Videocoding

Multimedia sorting

APPLICATIONS

Trailer load planning

DM3610 1-Head Solution

DM3610 2-Head Solution

Trailer load planning

Distribution Center spatial management

· Automated shipping and manifesting systems

• Distribution Center spatial management

· Automated shipping and manifesting systems

 $\Delta V7000TM$

Technical data

- mm 35 mm 50 mm

• Easy to install: 100% pre-assemble

• Easy to select the correct model · Increase customer productivity

• Operating temperature: 0°C to 50°C • Supply Voltage: 24 Vdc ± 20% • Factory warranty: 2 years



• C-Mount Lenses, focal length: 16 mm, 25

reading results (No Read) for diagnostics



Ethernet, Profinet and Ethernet IP

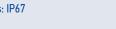
Factory calibration, optimized for code



• I/O: 2 inputs, 2 outputs; optocoupled Protection class: IP65

Technical data

■ IP65, 0-50° operating temperature



• Gigabit Ethernet Integrated Connectivity





Interfacing CBX500 with display and

Technical data

MATRIX 410N™ . Operating temperature: manual focusing

- models, 0° to + 50 °C (32 to 122°F) • On board image storage saving up to 3,000
- image (scaled) • Protection class: IP65-IP67 CMOS global shutter sensor
- Connectivity: Ethernet 10/100: Ethernet IP, PROFINET, TCP/IP, UDP, FTP, MODBUS TCP Serial RS232/RS422/RS485 up to 115.2 Kbit/s

• 5MP image sensor, 15 FPS

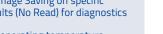


IMAGE BASED BAR CODE READERS

AV7000™

extended DoF

constant DPI resolution

very bad quality label

• Single view high quality picture on large

· Excellent reading performances on high

• Patented Pulsed Lighting System to reduce

Patented Digital Zoom technology assuring

New generation decode algorithm to read

Multiple format Image saving from full

definition to highly compressed JPG

Integration with dimensioning and scale system

speed conveyors: 4.8m/s (945fpm)

reading station footprint 2.2m (7ft)

Patented Autofocus System offering

conveyor (1400 mm/55 inch)



DM3610 2-Head Solution NTEP and OIML certified for Legal for Trade applications on belt conveyor and cross-belt

package flows

Reduced shadowing

DM3610 1-Head Solution . NTEP, OIML and MC certified for Legal for Trade applications on belt conveyors

Works for cuboidal and irregular package • Works for singulated and non-singulated

Technical data DM3610 2-Head Solution

Cuboidals and Irregulars

• Up to 3.1 m/s (620 fpm)

to 3.1 m/s

Singulated (spacing > 25mm)

Accuracy of ±5mm at transport speeds up

Maximum LWH = 2500x1600x1000mm Operating temperature: 0°C to 50°C • Factory warranty: 2 years

Image resolution: 110-260DPI (application)

Connectivity: RS232/RS485, Ethernet

• Operating temperature: 0°C to 50°C

Protection class: IP65

Technical data

Only cuboidals

up to 3.1 m/s

• Factory warranty: 2 years

x 900mm

• IP 65

DM3610 1-Head Solution

• Singulated (spacing >20mm)

Accuracy of ±5mm at transport speeds

Maximum box size 2500mm x 1200mm

• Operating temperature: 0°C to 50°C

Factory warranty: 2 years

Technical data

AV7000™

- CMOS linear sensor: 8192 pixels
- Scan rate: 33KHz • Readable symbologies: all standard 1D and
- High quality Image for OCR and Videocoding

Video output: Gigabit Ethernet, CC-Link

SC SERIES • Protection class: IP65 (NEMA4)

• Operation temperature: 0 to 50°C

Scalable and modular connectivity

· Maximum compatibilty and scalability

• Factory warranty SC4000/SC5000: 2 years

Dedicated data-collector for maximum reading.

Ethernet TCP/IP, EtherNet IP, Profibus, DeviceNet

Network or cluster controller

Backup/restore module

(QLM series)

"plug-in connection"

CBX SERIES

Optional display

Low temperature model

· Simplified wiring to speed up installation

Scalable and modular connectivity

· Base and extended models

· Modular field bus connectivity

· Optional backup/restore module

CONNECTIVITY DEVICES

WIDE RANGE OF **CONNECTIVITY**

FOR THE IDENTIFICATION PRODUCT RANGE

AND OPERATING TEMPERATURE UP 0 TO 50°C.

WITH STANDARD IP65 (NEMA4) PROTECTION CLASS

QL SERIES

• Ethernet TCP/IP and EtherNet IP (QL500)

• Easy, fast, modular and cost-effective solution with











