**ODATALOGIC**THE VISION IS YOURS

# IMAGE BASED BAR CODE READERS

### **APPLICATIONS**

#### MATRIX 450™

### Transportation and Logistics

- Automated sorting
- Manual postal sorting
- Loading / unloading

### Distribution & Retail

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

### STS400™

### 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

### XRF410N™

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

### NVS9000

### Transportation and Logistics

- Postal and courier express sorting
- Revenue recovery
- Reverse logistic processes

### Distribution & Retail

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

### **HIGHLIGHTS**

### MATRIX 450™

- 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
- 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

### STS400™

- Easy to install: 100% pre-assemble calibrating
- Easy to mantain
- 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

### XRF410N™

- Easy to select the correct model
- Easy to install
- Increase customer productivity
- Solves the most demanding sortation applications
- Easy to monitor and validate status

### NVS9000™

- Extended field of view: 1400mm (55")
- Excellent reading performances on high speed conveyors: 4.8m/s (945fpm)
- Reduced system dimensions: 2.2m (7ft)
- Easy installation and maintenance
- Integration with dimensioning and scale
- Multiside reading tunnel (6 side reading)

### TECHNICAL DATA

# MATRIX 450™

- 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%

#### STS400™

- 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 IP67, 0-50° operating temperature
- Ethernet, Profinet and Ethernet IP embedded

### XRF410N™

- 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
- Packtrack 2D embedded, for short objects gap
- Ethernet connectivity on board
- Power supply: 24 VDC
- Protection class: IP67

### NVS9000™

- CCD 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



# IMAGE BASED BAR CODE READERS

### **APPLICATIONS**

## MATRIX 210N™

- **Electronics**
- PCB board tracking
- Electronic product tracking

## Medical & pharmaceutical

- Medical device traceability
- Pharmaceutical supply chain traceability
- Chemical & biomedical analysis
- Access control systems
- Self service systems (ATM, kiosks)
- Print & apply systems
- Document handling

### MATRIX 300N™

### Manufacturing, Electronics and Automotive

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

### Food and Beverage

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 410N™

### **Automotive**

• Part traceability in assembly

# Distribution & retail industry

- Manual Presentation
- Small Objects Sorting
- Totes content scanning Medical & pharmaceutical

- Automated storage/retrieval
- Automated Order fulfilment/validation Warehouse
- End of line, Carton/objects, single or multiside scanning

### **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

### TECHNICAL DATA

### MATRIX 210N™

- 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 300N™

- Ultra-compact dimensions
- High performance DPM reading
- Liquid Lens Dynamic Focus Control
- Integrated dual illuminator: dark field/
- Fast and high resolution image sensor Power over Ethernet Option and onboard PROFINET-IO
- Extreme Industrial grade: IP67 Industrial grade for harsh environments, 0-50°C operating temperature

### MATRIX 300N™

- 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-IO
- IP67, 0-50°C

### MATRIX 410N™

- Patented continuous high power mode
- Patent Pending Packtrack 2D for short object gapping in sortation applications
- Embedded Ethernet connectivity, with common protocol support: 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

### 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)
- Power supply: 10 to 30VDC; 8W max.; 5W typical Protection class: IP67
- CMOS global shutter sensor MATRIX 410N -5xx-xxx:
- 1.3 MP (1280 x 1024) image resolution, 60 frames/s
- MATRIX 410N -7xx-xxx
- 2.0 MP (1600 x 1200), 45 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
  - IP 67, 0-50°C



MATRIX 210N™



MATRIX 300N™





# 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

### 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

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

### DS1500

### 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.

- 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
- Document handling machines
- Print & apply systems
- High speed pharmaceutical packaging
- Packaging machines
- ATL (Automated Tape Libraries)

- Extremely compact sizeExcellent 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)

### 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

### 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

### DS6300 / DS6400

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

### DS6300 / DS6400

- Optics: adj. (DS6300) Flash™ (Dynamic) (DS6400)
- Scan rate: Up to 1200scan/s
- Reading range: 300 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.



# LASER BASED BAR CODE SCANNERS

### **APPLICATIONS**

### DS8110 / DX8210

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

### **HIGHLIGHTS**

### **DS8110**

- Top Class Reading Performance
- Excellent performance on Low quality code
- Ethernet Bus Connections for high speed data transmission and real time synchronization
- Fully redundant configuration, no single point of failure
- Compact mechanical dimensions
- Ease of use and ease of installation
- Modular architecture and building block configurations
- Ease maintenance and automatic replacement

   DV8210
- ALL-IN-ONE architecture offering outstanding ease of use and installation
- Excellent performance on Low quality code
- Unmatchable ease of use and ease of installation
- DST (Digital Signal Technology) offering stable and constant performance at any operative conditions
- Ethernet Bus Connections for high speed data transmission and real time synchronization
- Fully redundant configuration, no single point of failure
- e-GENIUS web browser programming tools
- Ease maintenance and automatic replacement

### 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

#### 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

### **AXIOM**

- Postal/Parcel sorting and tracking
- Automated warehousing identification systems
- Airport baggage sorting systems
- Cargo applications
- Receiving / shipping systems

### **AXIOM**

- Scanning over 1,2, or 4 read zones for the largest reading zones
- DRX barcode reconstruction software for reading skewed barcode labels
- Modular scan head and wiring base for simple replacement
- Parameter storage modules makes replacement quick and easy
- Flexible Connectivity

### **AXIOM**

- Scan pattern type: X-Pattern type
- Scan rate: 1000 scans/s
- Reading range: 380mm to 1830mm
- Dimensions: 158mm x 276mm x 132mm
- Protection class: IP65
- Operating Temp: 0°C to 50°C
- Connectivity: RS232/RS422, Ethernet TCP/ IP, EtherNet IP, DeviceNet, ProfiBus

### AXIOM-X

- Postal/Parcel sorting and tracking
- Automated warehousing identification systems
- Airport baggage sorting systems
- Cargo applications
- Receiving / shipping systems

### **AXIOM-X**

- Omni-directional scanning
- Highest Read performance
- Largest Coverage
- Fastest Installation

20 CONTRACTOR STATE

• Easy 'Plug and Play" replacement

### AXIOM-X

- Laser pattern: cross
- Scan rate: 1120 scans/s
- Reading range: out to 2032mm
- Dimensions: 311mm x 354mm x 176mm
- Protection class: IP654
- Operating Temp: 0°C to 50°C
- Connectivity: RS232/RS422, Ethernet TCP/ IP, EtherNet IP, DeviceNet, ProfiBus







DS8110



# LASER BASED BAR CODE SCANNERS

### **APPLICATIONS**

### 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

#### OFM

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

### DS4800

### Automated warehousing

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

### Automated Shopfloor

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

### AL5010

### Automated warehousing

- Picking systems
- Pallet reading
- Label print and apply verification
- Receiving / shipping systems
- Automated storage and retrieval systems
- Process control systems

### **HIGHLIGHTS**

### DS2100N / DS2400N

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

Manually adjustable focus with locking

Ambient light immunity for outside

Integrated multi-language display for

Subzero model (-35°C) with window defrost

ACR4™ Advanced Code Reconstruction

ID-NET™ embedded interface for high

Integrated oscillating mirror model

speed communication network

All 1D codes including GS1

setup, monitoring, and diagnostics

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)

### 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)

### ΔΙ 5010

DS4800

applications

- Largest depth of field of any mid-range laser barcode reader on the market
- PackTrack™ advanced tracking allows closer package spacing while maintaining package ID
- Integrated web server with monitoring support for iPhone and IPads
- Multi-language integrated GUI
- Easy 'plug and play" replacement
- Flexible connectivity with on board EtherNet/IP, Ethernet TCP/IP

### AL5010

- Scan rate: up to 1200scans/s
- Depth of field: up to 1125mm on 0.50mm (20 mils) codes
- Max. resolution: up to 0.20mm (10mils)
- Connectivity: RS232, RS485, EtherNet IP, Ethernet TCIP/IP
- I/O: 4 programmable relays, 3 to 60VDC; optocoupled (Enhanced Interface Module)
- Power supply: 12 to 30VDC; 25W max.
- Protection class: IP65
- Operating temperature: 0°C to 50°C







DS4800

# **DIMENSIONER**

### **APPLICATIONS**

### DM3610

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



### HIGHI IGHTS

### DM3610

- Certified for Legal for Trade applications
- Works for cuboidal, near-cuboidal, and irregular package flows
- Works for singulated and non-singulated package flows
- Use in multiple head configurations to reduce shadowing

### TECHNICAL DATA

### DM3610

- Accuracy of ±5mm at transport speeds up to 3.1 m/s
- Maximum box size 2450mm x 1200mm x 900mm for a single head
- Operating temperature: 0°C to 50°C
- IP 65

# **CONNECTIVITY DEVICES**

Wide range of connectivityfor 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

# **QL SERIES**

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

# **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 compatibilty and scalability
- Ethernet TCP/IP, EtherNet IP, Profibus, DeviceNet (QLM series)

# **AL 5010 INTERFACE MODULES**

- Simplified wiring for fast installation
- Connectivity for Ethernet TCP/IP,
   Ethernet IP
- Profibus, DeviceNet and other common networks (Enhanced)
- Supports high voltage relays offering mini-controller capability (Enhanced)
- Dimensions: 93 x 136 x 65mm (Basic),
   134 x 191 x 67mm (Enhanced)
- Supply Voltage 12-30 VDC, 25 W Max











AL5010 INTERFACES MODULE

# HEADQUARTERS

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