



HEALTHCARE

Industry Guide



Datalogic at a glance

Datalogic Group is a global leader in the **automatic data capture and industrial automation** markets. It is well known around the world for designing and producing barcode readers, mobile computers, sensors for detection, measurement and safety, RFID, machine vision and laser marking systems. Datalogic solutions help customers increase the quality of their processes in the **Retail, Manufacturing, Transportation & Logistics, and Healthcare** industries.

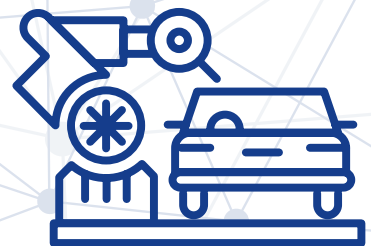
The Group has **more than 50 years of history** behind it, during which enormous successes have been achieved: **11 R&D centers and 3 DL Labs in Italy, USA, Vietnam, and China; 13 manufacturing and repair facilities** in USA, Hungary, Slovakia, Italy, China, Vietnam, and Australia; a **portfolio of about 1,200 patents and patent applications** in multiple jurisdictions; thousands of prestigious partners and customers spread across five continents.

Datalogic Group has **offices in 29 countries worldwide**, with the headquarters in Bologna, Italy. It is through the close cooperation of **nearly 3,000 employees** that Datalogic can boast some of the most remarkable automatic data capture and factory automation solutions available today in the market.

DATALOGIC TARGET INDUSTRIES



RETAIL



MANUFACTURING



TRANSPORTATION
& LOGISTICS



HEALTHCARE

DATALOGIC PRODUCT RANGE



Fixed Retail Scanners



Handheld Scanners



Stationary Industrial Scanners



Mobile Computers



Laser Marking Systems



OEM Barcode Readers

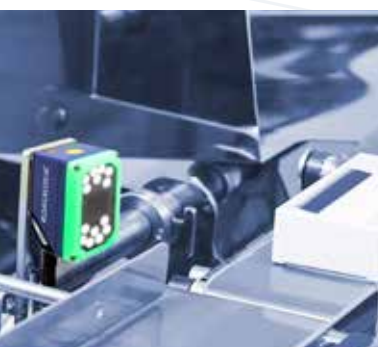


RFID Systems



Sensors & Safety

by **DATASENSING**



Machine Vision

by **DATASENSING**



CUSTOMER SERVICE

Datalogic's Customer Service offers a wide and complete range of post-sales services. It is organized in three levels of support, in order to guarantee the most appropriate professional assistance based on the specific problem. Datalogic's Customer Service can deploy in each territory a team of multi-lingual professionals, with a broad technical expertise across the whole product range.

Our standard service portfolio includes: warranty extension, fast turnaround time for repairs, 24/7/365 phone support, next day on-site intervention and site audits. Datalogic can tailor the service offering to your specific needs. Our experts will support every stage of your projects, from feasibility study to extended post-sales support, performing, when necessary, root cause analysis and remediation.



EASEOFCARE Service Programs

Datalogic's EASEOFCARE Service Programs provide superior life-cycle support to ensure that products are always operating at peak performance. A variety of Service Programs are available to match your business requirements:



**FAST REPAIR TURNAROUND
(OVERNIGHT/2 DAYS)**



**ACCIDENTAL DAMAGE
COVERAGE**



**BOTH WAYS FREIGHT PAID
BY DATALOGIC**



**DATALOGIC SHIELD
FOR MOBILE PRODUCTS
INCLUDED**



**3-5 YEARS CONTRACT
SERVICE OPTIONS**

Please contact your sales representative to find out what type of services are available in your region.

www.datalogic.com



Healthcare

HOSPITALS - LABS

Patient safety and the prevention of medical errors are among the healthcare industry's foremost concerns. Healthcare professionals rely on Datalogic barcode scanners during direct care activities to guarantee correct patient identification, medication verification and a comprehensive Electronic Medical Records (EMR) management.

- **Admittance**
- **Patient bed care**
- **Analysis labs**
- **Surgery tools verification**
- **Inventory management**



PHARMACY

POS check-out at retail pharmacies requires a careful counter space optimization to dedicate the most possible space to sellable items exposure. For this reason, it is important that barcode scanning solutions have a small footprint and the most efficient scanning capability. Datalogic provides pharmacies with imaging technology able to scan small, hard-to-read codes, and both linear and 2D codes which are now the most common type of codes used with prescription labeling.



Value Proposition

We empower the entire Healthcare ecosystem from drug production to patient care.

Industry

PHARMACEUTICAL

- Point-of-sale
- In-store operation
- Inventory management
- Receiving

Datalogic's products qualify to be part of Medical Devices, Pharma Manufacturing and Distribution, verifying that life-saving products are produced to specifications, properly dispensing medications and accurately tracking it, label and inspect devices. Thanks to its cutting edge fixed imagers, scanners, handheld products and mobile computers, Datalogic ensures these items are properly tracked throughout the entire supply chain, verifying lot numbers, manufacturing data, expiration dates and other information stored on 2D codes, at device, carton, and pallet level. Sensors, safety and machine vision devices are also available to control the full manufacturing and intralogistics processes.

- Drugs production
- Pharma products distribution
- Warehousing



HOSPITALS - LABS

BLOOD BANK
MILK BANK

EMERGENCY



LABORATORY - LAB SAMPLES

Ensuring that the prescribed test is administered to each specimen, and that results are correctly recorded and reviewed is best accomplished using automatic data capture. Identification solutions employed in the laboratory contribute to the efficient tracking of thousands of specimens throughout the various stages of lab operations. Datalogic's handheld scanners and mobile computers are used by laboratory personnel, and barcode scan engines are effectively embedded into test equipment.



SURGERY TOOLS

Hospitals and medical environments require extreme accuracy in tracking disposable item expiration and non-disposable instrument cleaning and sterilization. This information maximizes quality of care and reduces risk of contamination. Datalogic technology delivers solutions for both applications. Surgical instruments are permanently etched using Datalogic laser marking systems allowing for extended traceability despite harsh chemical cleaning and autoclave sterilization. Datalogic scanners and mobile computers combine the latest data capture technology with Disinfectant-Ready enclosures designed to withstand daily cleaning with harsh chemicals to effectively fight germs and bacteria. These devices allow tracking of supplies and instruments from sterile inventory to the operating room.

ADMITTANCE

Electronic tracking of patients using barcodes increases the effectiveness of treatments by minimizing errors. Barcodes are attached to medical charts and patient wristbands and are used for identification from admittance to discharge. Datalogic handheld scanners and mobile computers deliver efficient and secure data assuring right treatment and eliminating manual data handling errors with patient file, medicine tracking and follow up activities.



5 PATIENT'S RIGHTS

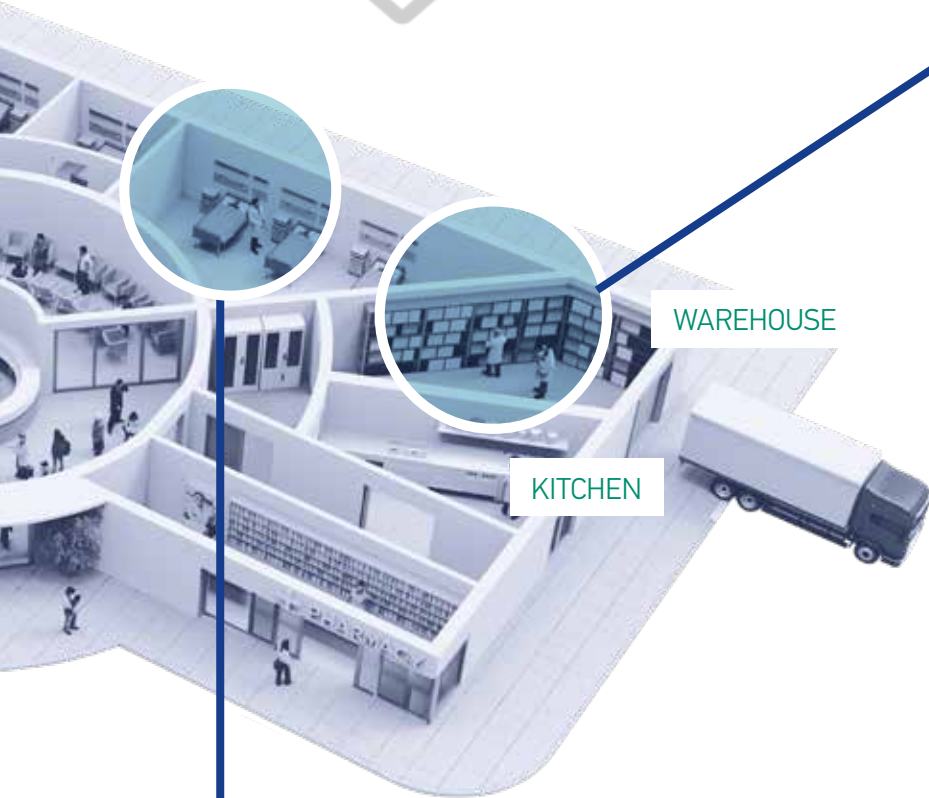
RIGHT
DRUG

RIGHT
PATIENT

RIGHT
DOSE

RIGHT
ROUTE

RIGHT
TIME



INVENTORY MANAGEMENT

Every enterprise keeps cost down through tight inventory management. In healthcare inventory, controls are critical to ensure correct levels are maintained and expired items are removed. Datalogic solutions include mobile computers and barcode scanners that deliver a reliable and accurate inventory, helping healthcare enterprises improve care and manage their costs.



BEDSIDE POINT-OF-CARE — BARCODE ADMINISTRATION — EMR/EHR

Bedside scanning and electronic medical records are in use throughout the healthcare industry enhancing the productivity and timeliness of medical staff while eliminating human error and poor decision making. Datalogic solutions for barcoding ensure patient safety by working with healthcare systems to enforce five key patient rights: Right Patient, Right Drug, Right Dose, Right Route, Right Time.

BCMA (Barcode Medication Administration) is one of the main Point-of-Care technologies used in hospitals. It requires that barcode reader scans medication and patient wristband prior to administration to the patient. The hospital system receives the information scanned and verifies the five patient rights before the medication is given to the patient. BCMA avoids drug-drug interactions and allergies while ensuring a substantial reduction of medication errors.

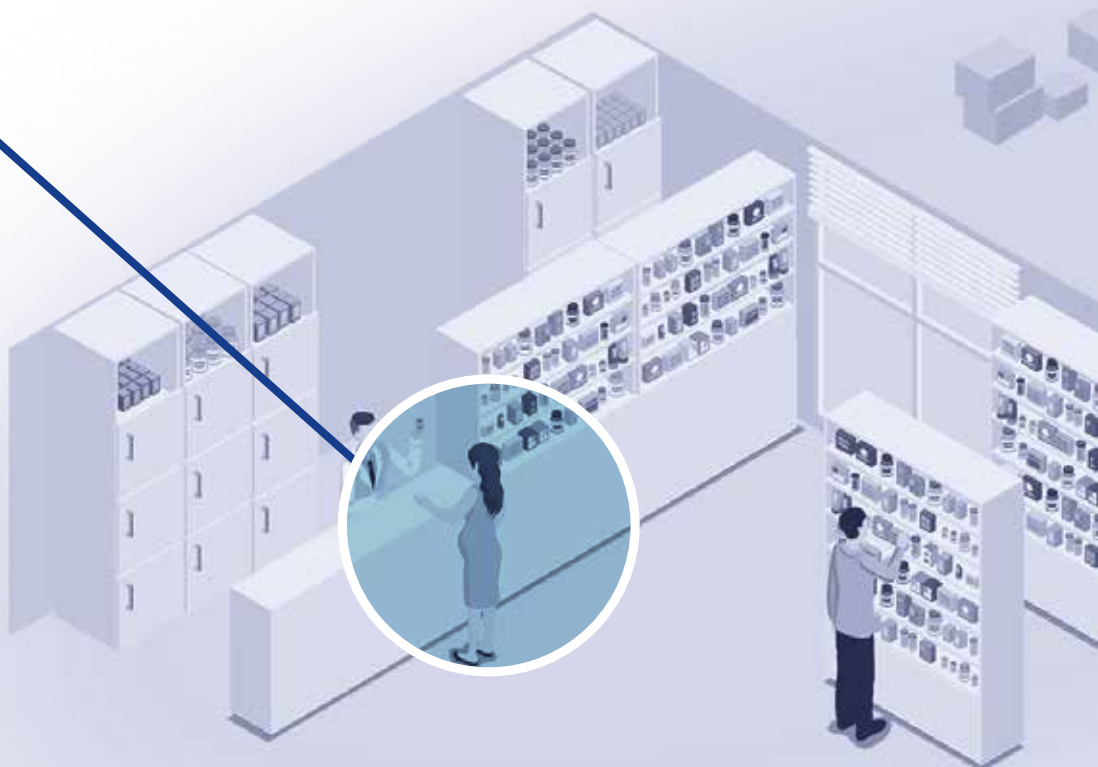
The use of barcode technology at bedside point-of-care improves efficiency in supply procurement, specimen identification, EMR/EHR access and medication verification. The result is a leaner and more effective patient care operation.

PHARMACY



POINT-OF-SALE

Retail pharmacies are characterized by a small point-of-sale check-out location having 1-3 check-out counters. With limited space, it is important that barcode scanning solutions have a small footprint. Datalogic presentation scanners and handheld scanners pack the latest technology into a compact form factor for efficient barcode reading in tight spaces.



AUTOMATED PHARMACY

Automation lets pharmacies process more orders in less time with greater accuracy. This releases pharmacists from repetitive tasks giving them additional time to engage with patients. Automated dispensing machines provide medicine storage, dispensing and tracking and are commonly used in hospitals/clinics increasing process efficiency and patient safety. Datalogic produces ultra-compact barcode imagers (Matrix 120) for easy OEM integration in automated dispensing machines.



IN-STORE OPERATION — DRUG IDENTIFICATION — INVENTORY

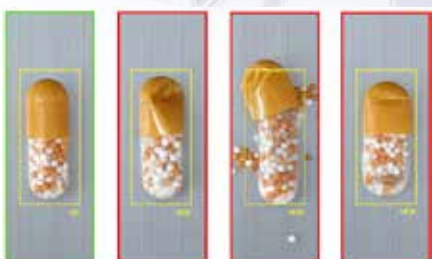
Pharmacies rely on cost-saving inventory management systems using data collection equipment to track prescription medications. By scanning the prescription pick list during filling, pharmacies reliably and accurately track their activity ensuring proper inventory levels of their medications. Datalogic has an extensive offering of wireless and cabled handheld scanners for in-store operation.

PHARMACEUTICAL



PHARMA PRODUCTION TRACEABILITY AND QUALITY INSPECTION

Pharmaceutical production requires high performance solutions for secure and accurate product tracking throughout every phase of the manufacturing process. Datalogic solutions include fixed barcode readers and machine vision systems that identify and validate items as they move through production. State-of-the-art OCR and barcode reading capabilities fulfill even the most demanding serialization needs.



PEKAT VISION Detector and Classifier modules are used to check that each pill moving on a conveyor belt meets the required specification, including the dimension, shape, texture, color, and that they are free of any defect.



PHARMA WAREHOUSING AND DISTRIBUTION

Medical devices, pharma manufacturing and distribution brings life-saving products to hospitals, pharmacies, care givers, and patients for administration. Assuring these products are manufactured to exact specifications requires Datalogic imaging and marking systems that allow for proper dispensing, tracking, labeling of medications and devices.

PRODUCT PORTFOLIO

MOBILE COMPUTERS



MEMOR™ 30/35 family



- Complete range of mid-tier mobile computers with top data capture performance: 2 scan engines with a range up to 10mt, front/rear camera, green spot good read technology
- Streamlined future-proof computing & connectivity: Qualcomm 2.4 GHZ Octa core platform, 5G and WIFI 6E, Android 13
- Easy of use & versatile solution: 6" display, 12h swappable battery, multiple modular charging solutions, full accessory range
- Proven reliability & TCO: IP68 dust and water protection, wireless charging battery and cradles, full software suite to enhance optimization, deployment and protection of the asset



MEMOR™ 11



- Ultra-Ergonomic, compact and robust
- Full chemical resistant enclosure to withstand daily cleaning with harsh disinfectant solutions
- 5-inch brilliant capacitive multi-touch HD display
- Validated by Google as 'Android Enterprise Recommended' for rugged devices
- Effective and ultra reliable wireless charging system helps reducing maintenance and facilitates cleaning operations.
- Ruggedized with drop resistance to 1.5 m / 5 ft to concrete and IP65 sealing
- Full suite of cellular connectivity for voice and data, featuring LTE-Advanced/4G+

FIXED RETAIL SCANNERS



MAGELLAN 900i



- All digital imaging provides excellent performance and low TCO
- Quickly reads 1D and 2D barcodes from printed or mobile sources with Greenspot™ good read confirmation
- Dedicated OEM mount for easy kiosk or self checkout integration



MAGELLAN™ 1500i



- Advanced digital imaging provides class-leading performance and reliability
- Seamlessly reads 1D and 2D barcodes, whether printed or displayed on mobile phone, laptop or tablets
- Compact, ergonomic design ideal for hands-free or handheld operations

STATIONARY INDUSTRIAL SCANNERS



MATRIX 120™



- Ultra compact dimensions for easy integration
- Smart user selectable focus for high application flexibility
- ESD and Polarized Versions



MATRIX 220™



- All-In-One DPM illuminator for strong DPM reading performance
- Smart electronic focus control for high reading flexibility
- New multicore image processing platform excellent for high speed applications



MATRIX 320



- Innovative platform and sensor with outstanding Field of View (FoV) and Depth of Field (DoF)
- Smart configurable lighting solutions with more color options in three power versions
- Configurable 360 degree multicolor visual feedback
- Liquid lens remote focus control for extreme flexibility in production
- New **Matrix 320X Premium** available: can capture and process twice as many images as the standard version in a given time period



MEMOR™ K



- Ergonomic, very light weight and pocketable size to read 1D and 2D codes in any direction, and on any surface, including mobile screens
- easy-swappable battery for a quick replacement
- Enhance productivity all over the store: run simultaneous applications smoothly



SKORPIO™ X5



- Largest 4.3" high visibility display in its class
- Scan engine: 1D Imager, 2D Imager Standard Range, Mid-Range and near/far Extra-Long-Range Imager
- Handheld and Pistol-grip form with 3 keyboard layouts
- Fully rugged 1.8 m drop and IP65 rating
- Choice between Wireless Charging or Wired versions with dedicated docks



CODISCAN



- Flexible Bluetooth wearable scanner with multiple comfortable mounting options: hand, neck, belt/pocket
- Small, lightweight super reliable device to improve operations productivity and accuracy
- 2 working shifts and up to 12,000 scans with a single charge
- Best-in-class scanning performances reduce TCO: 1D/2D Datalogic decoding library, smart-aiming system, Green Spot, 3 high-visible LEDs, audio and vibration feedback



RIDA™



- Small, ergonomic, perfectly hand-fitted
- Vibration and good read feedback
- Disinfectant Ready enclosures resistant to harsh chemical cleaning
- Specific models with enclosures treated with anti-microbial additives available
- Compatible with Android, Apple iOS and Windows Mobile devices



GRYPHON™ 4500 SERIES



- Enhanced reading technology for superior scanning and depth of field
- Disinfectant Ready enclosures resistant to harsh chemical cleaning
- Specific models with enclosures treated with anti-microbial additives available (ISO22196 compliant)
- Wireless charging (no need for contact cleaning or maintenance)



POWERSCAN 9600 SERIES



- **Standard Range (SR)** and **High Performance (HP)** for standard / high resolution codes
- New **1D/2D Auto Range series** with extra long-range capabilities, able to scan at very short distances up to very far barcodes
- Ultra-rugged design, IP65 and IP67
- Embedded industrial connectivity, modular
- Wireless charging reducing TCO
- Doubled radio range and OLED display
- Smart batteries and diagnostics

HANDHELD SCANNERS



BLADE



- 1D code reading
- Embedded Ethernet connectivity
- Two Ports Profinet and ETH-IP
- M12 rotating connector
- Compact dimensions
- Excellent performance on low quality and damaged labels
- BLADE 100: Up to a 310 mm (12.2 in.) reading distance
- BLADE 200: Up to a 600 mm (23.6 in) reading distance



DS5100



- Medium, Long Range, Linear and Oscillating Mirror models, selectable focus for high application flexibility
- Selectable focus system
- Display and multi-language messages



DS2400-DS2100



- Embedded Ethernet connectivity
- Two Profinet Ports (MRP supported)
- Rotating connector block
- Compact dimensions
- Excellent performance on low quality and damaged labels

PRODUCT PORTFOLIO by DATA SENSING easing automation challenges

SAFETY AND GUIDANCE



SH4



- Complete line of finger/hand/body resolution safety light curtains
- Base, Standard and Advanced models to cover all applications
- Advanced alignment tools and wireless diagnostics and programmability



SH4 ACTIVE/PASSIVE



- 2, 3 and 4 beams retroreflective version of SH4
- 500, 800, 900 and 1200 mm monitored heights
- Save installation costs with only one side connected to the machine



SG4-H



- Finger protection in applications where high hygienic requirements need frequent cleanings with highly corrosive detergents
- The first safety light curtain with stainless steel housing and glass

SAFETY AND GUIDANCE



LASER SENTINEL MASTER/REMOTE



- More than 72 m2 safely monitored, with 5.5 m / 180.4 ft over 275°
- High detection performances in compact size
- Advanced dust filtering



LASER SENTINEL PROFISAFE



- More than 72 m2 safely monitored, with 5.5 m / 180.4 ft over 275°
- High detection performances in compact size
- Advanced dust filtering

SENSORS



SMALL



- 15mm, 20mm, 30mm and 50mm fixed focus proximity
- 1,5m retroreflective and 1m polarized retroreflective
- 2m through beam models
- Amplified NPN or PNP output with NO-NC output



S3N IO-Link



- High performance in standardized miniature housing
- Replaces larger sensors and fits in limited space in smaller machinery
- Miniaturized fast and precise mark reader is also available



S62



- Sensors with red, infrared LED or LASER emission
- Background suppression from 3 cm to 2 m
- Multivoltage 24-240Vac/24-60Vdc with Relay output

SENSORS



SMART-VS



- AI enabled
- MLAS - Machine Learning Assisted Setting

- Machine Learning Assisted Setting
- No vision Tools programming required
- Fast and easy Settings such as Standard Photosensor
- Reduced cost of ownership and maintenance
- Bright and visible Red LED pointer and powerful white polarized light illuminator



AS1/DS1



- High resolution area sensor
- Detection and measurement of small objects crossing the area, even in a random positions



DS2



- 6 or 25 mm resolution
- Relative measurement precision ± 6 mm or ± 22.5 mm
- 150 - 1650 mm controlled heights
- Operating distance up to 10 m
- PNP and 0-10 V Analog output and RS485 or Ethernet interface

MACHINE VISION



P2X-SERIES



- Field replaceable illuminators, lenses and filters
- High computing power
- 360° visual feedback



P3X-SERIES



- High-end smart camera providing state of the art computing performance. With resolutions up to 5MP, P3x enables high-accuracy Quality inspection and measurement applications.



SG4 BODY COMPACT MUTING



- Controlled heights of 500, 800, 900 and 1200 mm [19.6, 31.4, 35.4, 47.2 in]
- Simple configuration through DIP switches
- Integrated muting lamp (only on muting models)



SLIM



- SLIM profile: 15 x 32 mm [0.6 x 1.2 in]
- 34 different protection lengths, with 30 mm [1.1 in] modularity from 150 to 1200 mm
- Cascadable up to 3 units



SG4 EXTENDED



- Up to 20m / 65.6 ft operating range and 1800m / 5905.5 ft protected height
- Cascade connection of up to 3 units
- Ethernet Interface for programming, monitoring and error logging

LIDAR GUIDANCE SCANNER



LGS-N25



- Compact lidar for mapping, navigation and object profiling
- 2D Measurement data for natural or marker navigation
- Angular resolution : up to 0,25°
- Scan Rate : up to 25 Hz
- Measurement range: 0.1 - 25 m with 80% reflectivity x 360°
- Dimensions (w,d,h): 65 x 65 x 70 mm



LGS-A10



- Compact lidar for collision avoidance, object detection and shape recognition
- 2D measurement data available
- 10m of detection capability range
- 3 simultaneous outputs
- 16 zone sets
- Angular resolution : up to 0,25°
- Measurement range: 0.1-25m with 80% reflectivity x 360°
- Dimensions (w,d,h): 65 x 65 x 70 mm



LGS-N50



- High performance lidar guidance scanner
- 2D Measurement data for natural or marker navigation
- Measurement rate 60000 points/s
- Measurement range: 0.2 - 50 m with 80% reflectivity x 360°
- Dimensions (w,d,h): 95 x 97 x 116 mm



S70 IO-Link



- High speed models: 200 µs...5 ms with dual digital displays
- Super high speed models: 10 µs...1ms
- Analog output models



S8 IO-Link



- Compact dimensions (14x42x25 mm) [0.04x0.13x0.08 in]
- Background suppression for transparent and shiny objects
- Extremely focused spot, under 1 mm (LASER models)



TL46 IO-Link



- Wide-spectrum RGB or white LED emission
- 5 different models: basic, standard, enhanced, low jitter, color mode
- Very low jitter down to 7µs (TL46-WJ...)



S65-M IO-Link



- Long Range background suppression detection up to 5m
- Risk-free Infrared LED emission and embedded green LED pointer
- Two independent fully programmable outputs
- NPN/PNP or IO-Link connection models



SR23



- Up to 0,5 mm of minimum size labels/gap
- 5 mm slot width
- 50 mm slot depth



SRX3



- Slot size 3mm
- High resolution up to 2 mm label gap
- M8/M12 connector with PNP or NPN
- output and ext TEACH



MX-E-SERIES



- Multi-camera vision processors
- GigE Vision camera connectivity
- Four different models with different processing capabilities



MX-G2000



- Industrial vision processor with PEKAT VISION deep learning
- The MX-G2000 integrates the 12th generation INTEL chipset and NVIDIA RTX GPU providing the highest computing power to run both PEKAT VISION deep learning and IMPACT rule-based algorithms



PEKAT DEEP-LEARNING SOFTWARE



- Software solution based on proprietary advanced deep-learning algorithms and neural networks
- Ease of use and wide hardware compatibility, with preferential hardware being the MX-G2000
- Universal application for various solutions in quality control and defect detection

