S3109
Bioptical Scanner

The Next Generation Is Here

The 'in counter' scanners for assisted and self-checkout are now even better. Fresh styling, rugged design, industry-leading scan performance and new options that enable Artificial Intelligence (AI) at the checkout put the Magellan 9900i portfolio in a class of its own. In 2013, Datalogic established a unique scanner style with our 6.8 cm / 2.7 in tower (bonnet), and the 9900i continues to support that popular form factor. The lower height allows customers to better meet ADA compliance and improve the customer experience. The additional option of a Top Down Reader (TDR) allows customers to tailor a solution that best solves their assisted and self-checkout needs. With basic and advanced configurations, the 9900i scanners and scanner/scales are the perfect companion for Point of Sale (POS) and Diebold Nixdorf self-service DN Series® EASY systems in all high-throughput checkout environments.

Enhancing the Cashier or Customer Experience

Packed with the latest imaging technology, the 9900i scanners feature the largest scan volume in their class. This ensures the fastest read rates and ease of use regardless of 1D, 2D, GS1 or Digimarc symbologies. The new Magellan scanners feature capacitive touch buttons and smooth surfaces to ensure the above-counter areas are easy to clean and sanitize. The 9900i TDR option expands the scan volume by 20% and adds an industry-unique 6-sided view of items crossing the platter for the ultimate scanning experience. The TDR comes in 3 heights and offers an optional integrated customer-facing reader, enabling customers to scan mobile devices and coupons independently from a cashier in assisted lanes, improving efficiency.

Features for Today and the Future

Magellan 9900i is powered by QuadVision™, a multi-core processor and multi-camera system with embedded Linux operating system to future-proof the platform. Color camera options and neural processors result in a checkout that is fully prepared to support Artificial Intelligence (AI) solutions that will boost customer satisfaction and dramatically improve loss prevention.

Features

- 6.8 cm / 2.7" tower height allows layout flexibility at the checkstand or SCO.
- Magellan 9900i features QuadVision™, a powerful IMX8 multi-core processor utilizing 4 cameras (2 horizontal and 2 vertical) that brings world-class performance to the scanner. The 9900i delivers multiple high-resolution images for each scan. Combine the powerful processors with 5-sided image capture, and you have previously unheard of performance to decode the most difficult and/or damaged barcodes. In addition, future optional integrated color cameras and color TDRs can be used for machine learning image capture and simultaneous video streaming via USB 3.0 or Ethernet for loss prevention.
- Optional built-in neural processors and accelerators enable trillions of operations per second inside the scanner eliminating a need for extra servers or cloud processing at the checkout.
- Be ready for the future GS1 Digital Link symbology which links valuable manufacturing and health safety details to each transaction.
- Supported by the powered interface on the BEETLE system
- Plug-and-play compatibility with Diebold Nixdorf ProBase Store

Industry - Application

ScaleSentry Technology

- Monitors the sides of the scale platter with an infrared (invisible) beam to detect if fruit or produce is misplaced on the scale platter, causing the item to be underweighed.

All-Weighs™ Scale Platter

- The All-Weighs scale platter design provides a total scanner weighing surface including the top of the bonnet, allowing the user to properly weigh produce that is too long to fit on the platter surface.

DECODING CAPABILITY

Auto Discriminates all Retail Barcodes

- EAN/JAN/UPC, Code 128, EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar StackedOmnidirectional; MicroPDF417; PDF417; UPC A/E Composites. Aztec Code; Data Matrix; QR Code, MicroQR, Digimarc® Barcode and all future GS1 Codes.

Illumination

- Multiple diffused LEDs: orientation and wavelength optimized for eye comfort.

Scan Indicators

- Visual: Good-read confirmation for all reading planes; Audio: 85 dB Speaker - Adjustable Tone and Volume plus supports WAV file formats

COMMUNICATIONS INTERFACES

Host multi-Interface

- RS-232 / USB Multi-Interface: OEM (IBM) USB Plus Power (Scanner / Scale); RS-232 (Scanner) / RS-232 (Scale); RS-232 (Scanner) or Single Cable RS-232 (Scanner / Scale).

Auxiliary Ports

- Powered USB Host (Type A) (x2); Powered RS-232; Remote Scale Display; EAS Controller Ports; Sensormatic; Interlock.

Ethernet Ports

- 1 x Ethernet is standard; Optional 7 Port Ethernet switch (IEEE1588). NOTE: Switch requires an external 48V power supply.

OPTIONAL SCALE FEATURES

Magellan Single Interval

- Minimum Increment: 0.005 kg / 0.010 lb; Scale Capacity: 0 - 15.0 kg / 0 - 30.0 lb.

Scale Technology Adaptive Scale

- Magellan supports Bizerba, Mettler Toledo, and Digi

LOSS PREVENTION

All-Weighs Scale Platter

- Integrated horizontal and vertical scale platter surfaces increase active weighing area for easy, accurate weighing of large items.

ScaleSentry

- ScaleSentry is an infrared platter detection system to provide shrink prevention; configurable audio / visual indicators identify items placed outside the weighing surface.

EAS Features

- Integrated EAS antenna for Checkpoint and Nedap; scanner provides good-read / EAS status indicators.

PHYSICAL CHARACTERISTICS

Dimensions

- Depth (below counter): 10.6 cm / 4 in
- Length: Medium - 39.9 cm / 15.7 in
- Width: 29.2 cm / 11.5 in
- 9900i height (above counter): 6.8 cm / 2.7 in

ELECTRICAL

Power Requirements

- Scanner Power Consumption: 12 VDC Operating (Nominal): 9.3 Watts; Sleep: 7.3 Watts;
- Optional scanner DC brick: AC Input: 100 - 240 VAC, 50-60 Hz;
- Optional Ethernet 48 VDC brick: AC Input: 100 – 240 VAC, 50-60 Hz

Cable

- WN RS232 I/F cable straight 4.5 m USB Power Plus 12V POT cable w. ferrite straight 4.5 m

Mains Cable

- United States, Europe (Schuko, Typ F CEE 7/4), Switzerland, United Kingdom, Australia, China, India

ADDITIONAL

EAS

- EAS interlock cable

Top Down Reader

- Top Down Reader 12", Magellan 9900i;
- Top Down Reader with Customer Facing Reader, 12", Magellan 9900i.

ENVIRONMENTAL

Ambient Light

- 0-86,080 lux

ESD Protection

- 25 kV air discharge

Humidity (Non-Condensing)

- 5 - 95%

Temperature

- Operating: 10 to 40 °C / 50 to 104 °F
- Storage/Transport: -40 to 70 °C / -40 to 158 °F

SAFETY & REGULATORY

Agency Approvals

- The product meets necessary safety and regulatory approvals for its intended use. See the Quick Reference Guide for a complete list of certifications.

Environmental Compliance

- Complies to China RoHS; Complies to EU RoHS; Complies to R.E.A.C.H. - EC1907/2006DECODING

AI ENABLEMENT FEATURES (OPTIONAL)

Image Capture

- Magellan 9900i offers smart TDRs and an optional horizontal plan color camera (HCCM) for barcode reading and color image capture.

Neural Processors

- Magellan 9900i will offer neural processors for executing AI inference models inside the scanner.

Ethernet Switch

- The optional 7-port Ethernet switch allows the Magellan to connect up to 2 integrated and 4 external cameras for creating a 'zone of cognition'.

ACCESSORIES

- 90ACC0419 Top Down Reader (TDR) 31.5 cm / 12.4 in
- Top Down Reader with Customer Facing Reader also available
- 90ACC0340 Single Display/Single Interval
- Horizontal Color Camera (HCCM)
- Ethernet Switch
- Tensor Processing Unit (TPU)