

# MAGELLAN™ 9800i



Premium bi-optic with market-leading performance for high-throughput scanning



## THE POWER OF IMAGING

The Magellan 9800i scanner/scale defines a new class of high performance bar code scanners for a worldwide market. With digital imagers in all planes, the 9800i scanner is the first scanner capable of reading both 1D and 2D bar codes seamlessly without requiring item orientation by the cashier.

The striking new design improves ergonomics with its lower bonnet height to allow repositioning of POS or self check-out touchscreens, payment terminals and receipt printers to better accommodate ADA customers. The centered speaker provides audio feedback with .wav files for greater fidelity. The large horizontal window is ergonomically positioned for both standing and seated cashiers.

## ENHANCING THE CUSTOMER EXPERIENCE

An integrated, customer-facing mobile device reader enables retailers to easily engage in mobile commerce. This eliminates the need for an additional scanner, power supply, outlet, interface cable, POS port and mounting hardware. The customer can scan bar codes from their mobile phone screen or paper coupons while the cashier continues to scan regular items in parallel, resulting in a significant reduction in total transaction time.

## LOSS PREVENTION

Shrink reduction ranks high among retailers' concerns and the Magellan 9800i scanner has key features designed to reduce shrink at the POS.

## ENTERPRISE FEATURES

Remote Management is supported for OPOS, JavaPOS, IBM™ Director and Wavelink™ Avalanche. Additional capabilities are available with the Value Added Features included in every Magellan scanner.

## FEATURES

- Advanced digital imaging in all reading planes
- Seamless reading of 1D and 2D codes in all planes with good-read audio and visual confirmation for fast, uninterrupted scanning
- Optional Top Down Reader (TDR) adds large topside field-of-view as well as a customer-facing mobile device reader
- Optional Top Down imager (TDi) to enable Machine Learning functionality like produce identification and barcode swapping detection
- The largest ever All-Weights™ scale platter enables effortless, accurate weighing of long or bulky items
- ScaleSentry™ Shrink Monitoring/Prevention System technology reduces losses from oversized items placed outside the weighing surface
- Low bonnet height allows for accessibility and flexibility in checkstand layout
- Top side accessible service port allows for the product to stay in the counter for most service calls (including software upgrades), reducing service and scale recalibration costs
- Illumix™ Intelligent Illumination Technology designed for digital imaging in retail
- Optional Digimarc® Barcode reading
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI.

## LOSS PREVENTION

### All-Weights™ Scale Platter

- The All-Weights scale platter design provides an alternative weighing surface on top of the bonnet, allowing the user to lay produce that is too long to fit on the platter.

### ScaleSentry™ Technology

- Monitors the 2 primary 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 under-weighed.
- Misplaced fruits or produce will break the infrared beam and trigger an alert to the cashier, preventing the weight from being transmitted to the POS until the cashier corrects the problem.
- ScanSentry allows our current generation bi-optics to detect when items move across the scan volume. We send an Event Code when an object enters the scan volume, and when it leaves. If no barcode read is detected between these event codes, the POS can alert a cashier, halt the transaction, or take other corrective measures to help customers and cashiers scan items properly.

### Top Down imager (TDi)

- 17.8 cm / 7 inch color camera in the same TDR form factor designed to enable Machine Learning functionality including produce identification, barcode swapping and others.



# TECHNICAL SPECIFICATIONS

## DECODING CAPABILITY

<b>1D / Linear Codes</b>	Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes.
<b>Stacked Codes</b>	EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MicroPDF417; PDF417; UPC A/E Composites
<b>2D Codes</b>	Aztec Code; Data Matrix; QR Code, Micro QR
<b>Digital Watermarks</b>	Optional support for Digimarc® Barcode

## ELECTRICAL

<b>AC Power Requirements</b>	AC Input: 100 - 240 VAC, 50-60 Hz Power consumption: Operating (Nominal): 12 Watts Sleep Mode: 9 Watts
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## ENVIRONMENTAL

<b>Ambient Light</b>	0-86,080 lux
<b>ESD Protection (Air Discharge)</b>	25 kV
<b>Humidity (Non-Condensing)</b>	5 - 95%
<b>Temperature</b>	Operating: 10 to 40 °C / 50 to 104 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F

## INTERFACE

<b>Auxiliary Ports</b>	Powered RS-232; Remote scale display; EAS controller ports; Sensormatic, Interlock; Powered USB host (Type A) (x2)
<b>Multi-Interface</b>	RS-232 / IBM 46XX / USB Multi-Interface; OEM (IBM) USB Plus Power (Scanner and Scale); RS-232 (Scanner) / RS-232 (Scale); RS-232 (Scanner) or single cable RS-232 (Scanner and Scale); USBCOM-SC
<b>Remote Management Capabilities</b>	Diagnostic reporting; WMI (OPOS and JavaPOS) and MBeans (JavaPOS) compliant; Host Download; Supports IBM Director, Wavelink Avalanche™ and other ERP management solutions

## LOSS PREVENTION

<b>All-Weighs™ Scale Platter</b>	Integrated horizontal and vertical scale platter surfaces increase active weighing area for easy, accurate weighing of large items. ScaleSentry™ Shrink Monitoring/Prevention System; Configurable audio / visual indicators identify items placed outside weighing surface
<b>EAS Features</b>	Checkpoint Systems: Integrated EAS antenna for Counterpoint IX and Evolve D11 models; Sensormatic: Datalogic SmartSentry™ firmware technology interfaces with the Sensormatic AMB-9010/IPS EAS Deactivation Controller; (AMB-5120) Good-Read / EAS Status Indicators; NEDAP

## OPTIONAL FEATURES

<b>Magellan Scale Technology</b>	Compatibility – Adaptive scales: Avery; Bizerba; DIGI; Herbert; Mettler Toledo; Shekel Max. Static Weight: 68.0 kg / 150.0 lb Vibration immunity: 4 programmable filter settings
<b>Dual Interval Scale</b>	Minimum increment: Range 1: 0.002 kg / 0.005 lb; Range 2: 0.005 kg / 0.010 lb Scale capacity: Range 1: 0 - 6.0 kg / 0 - 15.0 lb; Range 2: 6.0 - 15.0 kg / 15.0 - 30.0 lb
<b>Single Interval Scale</b>	Minimum Increment: 0.005 kg / 0.010 lb; Scale Capacity: 0 - 15.0 kg / 0 - 30.0 lb

## PHYSICAL CHARACTERISTICS

<b>Dimensions</b>	Depth (Below Counter): 10.6 cm / 4.0 in Height (Above Counter): 6.8 cm / 2.7 in Length: Model 9801 (Short, Scanner Only): 35.2 cm / 13.9 in Model 9803 (Medium, Scanner Only): 39.9 cm / 15.7 in Model 9804 (Medium, Scanner/Scale): 39.9 cm / 15.7 in Model 9805 (Long, Scanner Only): 50.7 cm / 20.0 in Model 9806 (Long, Scanner/Scale): 50.7 cm / 20.0 in Width: 29.2 cm / 11.5 in
<b>Indicators</b>	Audio: 85 dB Speaker; Adjustable tone and volume; Supports WAV file formats Visual: Good-read confirmation for all reading planes; Scale center of zero; ScaleSentry™ event; Sensormatic EAS status
<b>Top Down Reader (TDR)</b>	Cast aluminum construction Height: 90ACC0079: 31.5 cm / 12.4 in 90ACC0085: 17.8 cm / 7.0 in Independent ON and GOOD READ indicators
<b>Top Down Imager (TDi)</b>	1 MP, 2.5 mm F2.0 lens, 12 white LEDs, UVC compatible

## READING PERFORMANCE

<b>Image Capture</b>	TDR: Graphic formats: BMP, JPEG; Greyscale: 256, 16, 2
<b>Illumination</b>	Multiple diffused LEDs: Orientation and wavelength optimized for eye comfort
<b>Reading Coverage</b>	Seamless reading of linear and 2D codes in all planes (6 sides plus customer facing module)

## SAFETY & REGULATORY

<b>Agency Approvals</b>	The product meets necessary safety and regulatory approvals for its intended use. The Quick Reference Guide for this product can be referred to for a complete list of certifications.
<b>Environmental Compliance</b>	Complies to China RoHS; Complies to EU RoHS; Complies to R.E.A.C.H. - EC1907/2006

## UTILITIES

<b>Scanalyzer™ Utility</b>	Scanalyzer Magellan On-Screen Programming (OSP) configuration software is available for download at no charge.
<b>OPOS / JavaPOS</b>	OPOS Utilities and JavaPOS utilities are available for download at no charge.

## WARRANTY

<b>Warranty</b>	1-Year factory warranty
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## ACCESSORIES



Top Down Reader (TDR ) 31.5 cm / 12.4 in  
Top Down Reader (TDR ) 22.8 cm / 9.0 in  
Top Down Reader (TDR ) 17.8 cm / 7.0 in



Remote scale display, single head



Remote scale display, dual head



Top Down imager (TDi) 17.8 cm / 7.0 in color imager