Magellan™
8400/8300 HANDBOOK

Magellan®:
The Market Pioneer in Powerful Scanning Technology...
High Performance, Outstanding Quality and Reliability, Excellent Value

◆DATALOGIC™

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The Market Pioneer in Powerful Scanning Technology

Introducing the Magellan® 8400 and 8300

Datalogic Scanning developed the bar code scanner that read the first bar code in a retail store in 1974. Since that time Datalogic Scanning has been dedicated to making the highest quality scanners available for high-volume checkout environments.

The Magellan® 8400 and 8300 scanners offer the newest Datalogic Scanning bi-optic technology, which increases performance, while offering outstanding value. Both models can be configured as either scanner or scanner/scale combinations with Datalogic's exclusive, patented All-Weighs® platter that ensures accurate produce and bulk food weighing at the checkout, and can also be optionally equipped with either integrated Sensormatic® or Checkpoint® Electronic Article Surveillance (EAS) tag deactivation.

The Magellan® 8400/8300 Scanner/Scale are specifically designed for high-volume checkout environments, such as:

- Supermarkets and Hypermarkets
- Mass Merchandisers
- Wholesale Clubs

Magellan® 8400
The Magellan® 8400 is the highest performing 5-sided POS scanner available and improves operational efficiency through outstanding first-pass read-rates at an impressive value/performance ratio.

Magellan® 8300
The Magellan® 8300 is a high performance 5-sided bi-optic scanner for medium volume checkout environments. It offers great performance, high quality and reliability, and outstanding value.

The Magellan® 8400 and 8300 are available as either scanner/scale or as scanner only and are available in three lengths: regular, medium, and short (scanner only).

Magellan®:
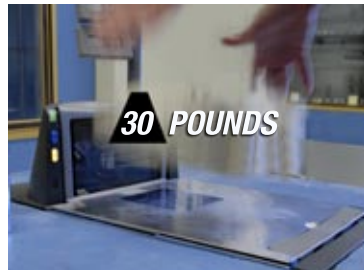# The Market Pioneer in Powerful Scanning Technology

Renowned Magellan®
Quality and Reliability

Both the Magellan® 8400 and 8300 inherit the Magellan® brand's renowned reliability, and are subjected to the same stringent quality and reliability testing and standards that have made Magellan® number one in fixed point-of-sale scanners.

High-Volume Retail Environment Tested

Here are SOME of the rigorous tests that every Magellan® bi-optic scanner undergoes before being branded a Magellan®.

- Drop Test - Simulated 30 lb frozen turkey dropped onto the scale platter from 8inches. No damage is allowed.
  - Competition: Testing of competitors show damage to the window and surrounding frame.

- Liquid Spills - such as water, wine or fabric softener spilled onto the sapphire glass surface must not penetrate and drip onto the lower window and must not affect the scanning productivity, scale function or EAS antenna performance.
  - Competition: Testing of competitors show leakage of water, wine, etc. onto the lower window or poor sealing allowing entrance into sensitive areas.

Single Motor
Design Improves
Reliability

Based on an innovative design, the patented Magellan® 8400/8300 uses a single motor. While exceeding the performance of other scanners, this design also reduces failures due to its lower speed and reduced power consumption. In addition, a very compact sealed scan engine provides better protection from dust, debris and liquids.

Photo Shows the New Magellan® 8400/8300 Compact, Sealed Scan Engine

High Quality Materials
Glass:

Sapphire and Diamond Like Carbon (DLC) window options
- Sapphire Glass - guaranteed for the life of the scanner
- DLC Glass - guaranteed for 6 years

Plastics:

Plastics used in the Magellan® 8400/8300 can withstand the use of biocides used to clean scale platter surfaces that may have had bilogical contaminates leaked onto them.
- Biocides are more harmful to plastics than normal window or ammonia based cleaners. Magellan® products are designed for grocery environments where biocides are used to clean the product.

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High Performance Features

The Magellan® brand is synonymous with scanning performance and the Magellan® 8400/8300 inherit Datalogic Scanning's experience, gained over 35 years, in developing bar code scanners for the highest volume retail checkout environments in the world.

OmegaTek™ Productivity Technology

OmegaTek™ Productivity Technology is comprised of hardware and software innovations that significantly improve scanner performance by increasing the scanning speed and by improving the first pass read rates on hard-to-read bar codes

- Industry leading scanning speed
- Industry leading first pass read rates

360° - Five Sided Scanning

- Increases the scanner's ability to read the bar code regardless of its orientation to the scanner
- Optimized for both sweep and presentation scanning

Improved Scanning Performance

New scan pattern for maximum coverage
- 52-Line scan pattern:
  28 Lines in the horizontal plane and
  24 Lines in the vertical plane

Single motor design
- The system has two separate full-time video processing channels providing 100% coverage at all times. This increased density and performance of the scan pattern meets cashier speeds of up to 100 inches per second!
  - Competitors use dual motor designs running at faster speeds, which produce less reliability and more failure points.

New higher speed processors
- State-of-the-art high speed processors provide better performance while maintaining a very competitive cost structure.

FirstStrike® Decoding Firmware

Magellan® FirstStrike® decoding firmware, part of the next generation OmegaTek™ Productivity Technology, provides a higher read rate of truncated and hard-to-read labels including high performance on GS1 DataBar™ codes (RSS).

Samples of "Hard to Read" and Damaged Bar Codes

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Value Features

New Industrial Design

- Reduced height allows for more flexibility in the placement of other POS components, without sacrificing performance.
- Integrated lift handles in rear and below platter

Reduced Energy Consumption

Typically lower energy consumption than other scanners

- Magellan® 8400   7 Watts
- NCR 7875SA   16 Watts
- NCR 7876   20 Watts
- Metrologic Stratos   13.5 Watts

Magellan® 8400/8300 can power directly from many POS terminals equipped with powered USB.

Multiple POS Interfaces

Universal Interface ASIC enables every interface in every Magellan® 8400/8300

- Powered USB
- USB Keyboard
- IBM RS-485 (468X, 469X)
- Single Cable RS-232
- Dual Cable RS-232
- Keyboard Wedge (non-scale)

Powered RS-232 Auxiliary Port

The Magellan® 8400/8300 scanners have an auxiliary port to connect a handheld scanner and a port to connect the scanner to a Checkpoint® or Sensormatic® EAS controller. Additionally the scanner/scale has a port to connect to the remote scale display.

Integrated EAS Features (Optional)

All Magellan® bi-optic scanners have an EAS Port

- Provides connectivity to Checkpoint® and Sensormatic® EAS
  - Integrated Checkpoint® EAS antenna (Optional)
  - Designed to accept a vertical after-market Sensormatic® EAS antenna

Value Added Features (Optional)

Value Added Features (VAF) are information reporting tools that manage information on checker scanning techniques, problem labels, scanner software, and diagnostics. Four Modules:

- Host Download - Lowers Service Cost and Improves Operations
- Diagnostics Reporting - Lowers Labor Costs To Service and Manage Assets
- Productivity Index Reporting - Identifies Problem Labels - Increases Cashier Productivity *(Magellan® 8400 Only)*
- Cashier Training™ / Ergonomic Index - Identifies Poor Scanning Techniques - Increases Cashier Productivity *(Magellan® 8400 Only)*

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All-Weighs® Scale Platter

Datalogic Scanning's patented All-Weighs® Platter reduces produce shrink!

The horizontal and vertical platters of the All-Weighs® are joined together to make one solid piece. This solid construction transfers the produce weight to the scale and ensures the accurate weighing of produce.

Integrated Produce Lift Bar or Produce Rail™

Integrated Produce Lift Bar or Produce Rail™ lifts long produce forcing the weight back onto the scale, and helps to stabilize round or large produce. The innovative design of the Produce Lift Bar disappears when not in use.

Improved Scale Features

- Reduced Scale Settling Time
    - 32% Improvement in scale settling time
    - 54% Faster than some competitive scales
- Integrated leveling feet for easy installation
- Designed to work with adaptive scales from a multitude of suppliers

New Dual Remote Scale Display

For applications requiring separate display for cashier and customer, the scanner-scale has two remote scale display options:

- Single display on a pole
- Dual display on a single pole

All-Weighs Platter shown with integrated Produce Lift Bar (left) and Produce Rail™ (right)

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