Magellan® 1400i

Omni-Directional Imaging Scanner

Data Sheet

Features:

- Aggressive imaging performance and intuitive operation reduces checker training and speeds checkout for better customer service
- Autodiscriminates PDF and 1D bar codes
- New imaging technology eliminates moving parts associated with laser scanners for improved reliability
- Targeted scanning mode for PLU Lists
- Hands-free scanning for small, easily handled items, handheld scanning for bulkier items
- Precise imaging scan volume eliminates misreads caused by stray laser scan lines
- Small footprint and size allow for easy integration into point-of-sale
- Textured rubber grip area and small size allow hands of all sizes to comfortably hold the scanner when needed
- Checkpoint® Systems EAS compatible
- Tilting stand allows scan volume to be optimized for each user and has screw holes for fixed mounting
- Standard product is available in either Black or Light Grey. Other colors and custom logo options are available for a minimum quantity purchase. Please contact Datalogic Scanning or your Datalogic Scanning reseller for more information on this service.

Mechanical

Dimensions (Scanner with Stand):
Height: 18.1 cm / 7.13"
Width: 8.2 cm / 3.23"
Length: 9.7 cm / 3.82"
Weight: 345.4 g / 15.7 oz

Environmental

Temperature Rating
Operating: 0° to 40° C / 32° to 104° F
Storage/Transport: -40° to 70° C / -40° to 158° F
Humidity: 5 to 95% NC (non-condensing)
Shock: Multiple 1.2 m / 4' drops
Water & Dust Resistance: IP52

Electrical

Operating Voltages
5.0V model ± 5%
8.0 – 14.0V model
Operating Current (idle): < 350mA
Operating Current (label read): < 450mA

Communications

- RS-232
- OEM USB
- Wand Emulation
- USB
- Keyboard Wedge
- IBM 46xx / RS-485

Optical

Scan Pattern: 100 line
Scan Rate: 1,100 (digital scan lines/second)
Single Line Activation: via button
Scan Volume: 1311 cm^3 / 80 in^3
Minimum Resolution: 5 mil
Print Contrast: 25%
Roll: 0 – 360°
Pitch: ±65°
Yaw: ±75°
Ambient Light
Indoor: < 557 foot candles / 6,000 Lux
Outdoor: < 7,999 foot candles / 86,100 Lux
Depth of Field: Please refer to table below

DEPTH OF FIELD Range Comparisons	
LABEL DENSITY	RANGE
5 mil	1.9 to 5.0 cm / 0.75 to 2.0"
6.6 mil (PDF)	3.8 to 7.6 cm / 1.5 to 3.0"
7.5 mil	1.3 to 10.2 cm / 0.5 to 4.0"
10 mil	0 to 15.2 cm / 0 to 6.0"
10 mil (PDF)	3.1 to 17.7 cm / 1.25 to 7.0"
13 mil (UPC)	0 to 20.3 cm / 0 to 8.0"
15 mil (PDF)	2.5 to 20.3 cm / 1.0 to 8.0"
20 mil	0 to 22.9 cm / 0 to 9.0"
Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.	

Decoding Capability

The Magellan® 1400i omni-directional imaging scanner autodiscriminates between the following supported symbologies:

Retail Codes:
- EAN 8 & 13 with full expansion 8 to 13
- EAN/JAN two label
- JAN 8 & 13 with full expansion 8 to 13
- UCC/EAN 128
- UPC Versions A&E
- UPC Supplementals (Bookland & Coupon Code)
- UPC Add-ons (sub 2 or P2, sub 5 or P5 & C128)
- Dual Bar Codes for Japan (2 label read)
- Italian Pharmacode
- PDF-417/Micro-PDF
- Reduced Space Symbology (RSS): RSS-14, RSS expanded, RSS Stacked (omni-directional), RSS Composites and RSS Limited
- Supports GTIN

Industrial Codes:
- Code 39 (with full ASCII)
- Code 128 (Up to 80 characters, including Code 39 conversions)
- Code 93
- Interleaved 2 of 5
- Standard 2 of 5
- Codabar
- MSI/Plessey

Please contact your Datalogic Scanning representative for other available symbologies.

Safety and Regulatory

Electrical: Gost R; TÜV; UL.; cUL.; NOM
Emissions: Complies to FCC; EN 55022; AS/NZS CISPR 22; VCCI; CNS 13438; ICES-003
Restriction of Hazardous Substances: Complies to EU RoHS

Other

EAS Compatibility: Integrated EAS hardware works with Checkpoint® Systems.

DATALOGIC™

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