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Datalogic Magellan 1000i Review

Product: Magellan 1000i

Manufacturer: Datalogic

Type: Presentation-style Imager

Support: 2 Year warranty through Datalogic; Lifetime support through POSGuys.com

The Datalogic Magellan 1000i presentation style barcode scanner uses an area imager to read barcodes as opposed to a multi-line rasterized laser.

Typical uses and environments:

The Magellan 1000i finds best use in high volume retail environments and locations with barcodes that may be damaged or difficult to read.

Unique Features & Advantages:

As one of the few presentation style imagers on the market, the Datalogic Magellan 1000i's main advantage is in the scan engine. Area imagers are incredibly robust when it comes to scanning damaged or worn barcodes, and the Magellan 1000i is no exception.

Standard Features:

The Datalogic Magellan 1000i ships in a standard cardboard box with descriptive outer sleeve, helping it to stand out among most nondescript barcode scanner boxes, a boon for both customers and shipping departments. Everything you need comes in the box, including interface cable, optional stand, and configuration guides. A green indicator light on the top of the unit indicates when it is powered up, and acts as the optional targeting button.

Rubber pads on either side of the Magellan 1000i allow the scanner to be picked up and gripped easily, making oversized product scanning much easier.

Drawbacks:

The main drawback we found with the Magellan 1000i is the relatively lightweight design of the scanner unit itself. The coiled cable that came with the scanner weighs more than the Magellan itself, causing it to fall off desks easily if not secured to something sturdy.

Performance Testing:

To determine the capabilities of the Magellan 1000i, we ran it through a series of tests designed to identify optimal scanning range, resistance to light, highest density barcode, widest barcode scanned, as well as robustness to damaged, dirty, and multi-colored barcodes. We tested part # MG102041-000-411R, which includes the scanner, coiled USB cable, targeting button, and no stand. Our tests showed that the Magellan 1000i is pretty standard within the omnidirectional and presentation-style scanner class.

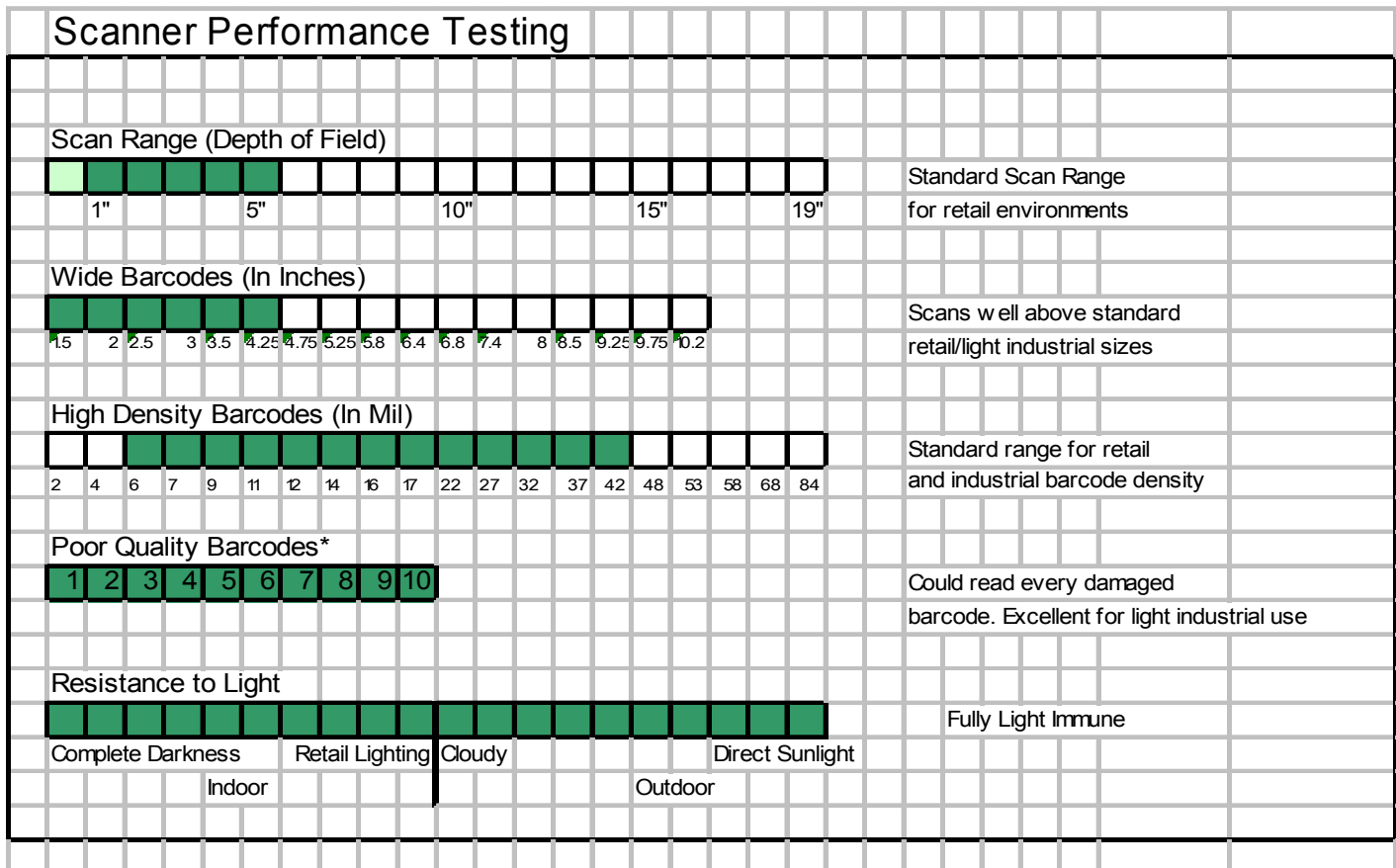


The optimal scan range for the Magellan 1000i was from contact to 6 inches, pretty standard for presentation style scanners. For dense barcodes, the scanner read as small as 4.9 mil and as large as 42 mil, hitting an upper bound only because the barcode was too wide to fit in the field of view in the optimal scan range. Similar issues happened with

wide barcodes, with errors occurring for 4.25" wide barcodes. Regardless, neither of these limitations would come into play in standard retail scanning environments.

The aggressive imager provides fast scanning of standard barcodes. It also allowed the Magellan 1000i to read all of our damaged, dirty, and worn barcodes with ease. However, the scanning speed makes it difficult to scan densely populated barcodes. Certain models, such as the unit we tested, come with a targeting button, which can aid in precision. If you know your retail location encounters densely populated barcodes, such as on cell phone boxes or hard drives, we recommend purchasing a model with the targeting button.

A breakdown of the Datalogic Magellan 1000i capabilities is listed in table and graph form below.



1D Results

Highest Density Barcode Scanned	4.9mil	Good
Widest Barcode Scanned	187.96mm	Great
Shortest Barcode Scanned	38 mm	Good
Range Ideal Conditions (Standard 100% UPC-A)	0 inches – 6 inches	Average
Scratched Barcode	3 of 3	Good
Worn Barcode	3 of 3	Good
Warped Barcode	2 of 2	Good
Curved Barcode	2 of 2	Good
Multiple Barcodes in close proximity	Relatively accurate, but dependent on distribution of barcodes relative to thickness of beam	Average

Scan through plastic layers	6 Layers	Good
Multicolored Barcodes Successfully Scanned	Blue, Black on Brown, Grey	Good
Multicolored Barcodes Not Scanned	Red, Yellow, Black on Dark Grey	
Simulated Sunlight Test	Light Immune	Excellent




Conclusion:

The Datalogic Magellan 1000i barcode scanner features fast, aggressive scanning and full light immunity, making it a good fit for outdoor high-volume retail environments. Unfortunately, the fast scanning capabilities make it a less than ideal choice for locations where products have multiple barcodes in close proximity.

To Purchase this product, go to the [Datalogic Magellan 1000i](#) page.

To see our complete line of barcode scanners, visit our [Barcode Scanners](#) section.

For Additional Reviews, visit our [Product Reviews](#) page.

	Ideal Setting	Description
 Datalogic Magellan 1000i	High volume retail	Small, aggressive area imager provides easy hand-held as well as hands-free presentation style scanning.
 Datalogic Magellan 9500	High Volume Retail and Grocery Locations	6-sided scanning and an optional built-in scale make the Datalogic Magellan 9500 an ideal choice for grocery stores or anywhere trying to streamline the customer checkout process.
 Datalogic Diamond	High Volume Retail	Compact, high-speed omnidirectional laser scanner combines efficient scanning in a small footprint

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