



DATALOGIC MAGELLANTM 9900i Omnidirectional Imaging Scanner User Guide

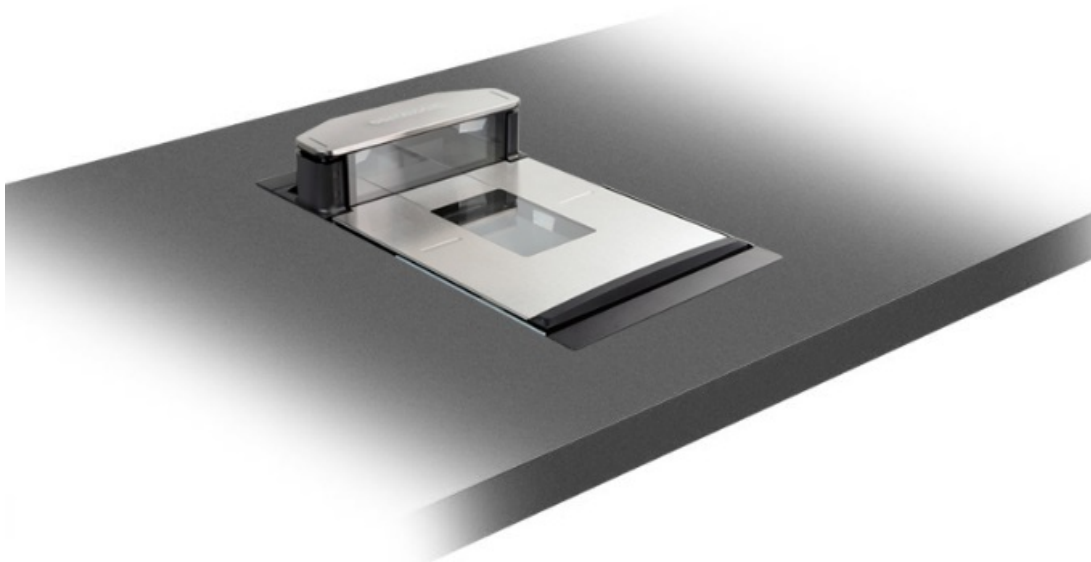
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**MAGELLANTM 9900i Omnidirectional Imaging Scanner
User Guide**



**MAGELLANTM 9900i
QUICK REFERENCE GUIDE**



Omnidirectional Imaging Scanner

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MAGELLANTM 9900i Omnidirectional Imaging Scanner

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Patents

See www.patents.datalogic.com for patent list.

ORIGINAL VERSION

See the Regulatory Addendum included with your product for additional regulatory, safety and legal information.

INTRODUCTION

The Magellan™ 9900i is a multi-plane imaging bar code scanner with an optional integrated scale, designed to deliver best in class performance for assisted service checkout Lanes or Self-checkout lanes within Retail stores requiring high throughput and ease of use. In addition, this new Magellan portfolio includes multiple options to integrate smart color cameras and neural processors inside the scanner which enable Retail Artificial Intelligence capabilities that improve customer experience and reduce shrink.

The available models are:

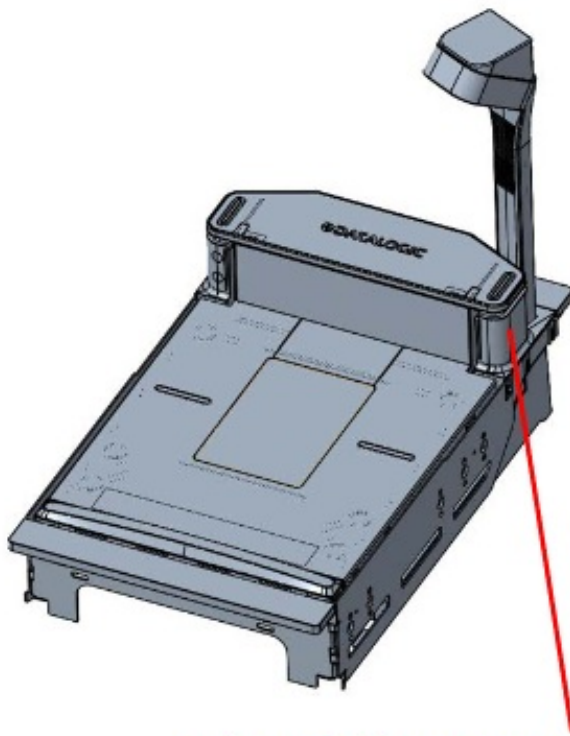
- Magellan 9910 (scanner only)
- Magellan 9911 (scanner only)
- Magellan 9912 (scanner only)
- Magellan 9921 (scanner-scale)
- Magellan 9922 (scanner-scale)

This manual describes their basic operation. For more detailed information about setup, installation and programming, see the Product Reference Guide for this product. These manuals are provided in Portable Document Format (PDF) for viewing and printing from the website listed on the back cover of this manual. Additionally, printed manuals can be ordered from your dealer/distributor.

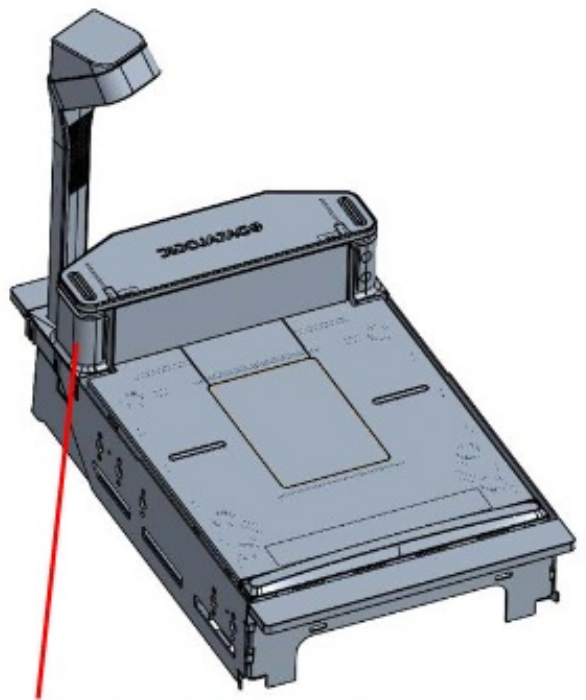
Certification Label

At the time the local scale regulatory authority certifies the scanner/scale for use, a certification label is affixed to the unit. Depending upon the size and shape of the label, placement can be made in one of the locations shown.

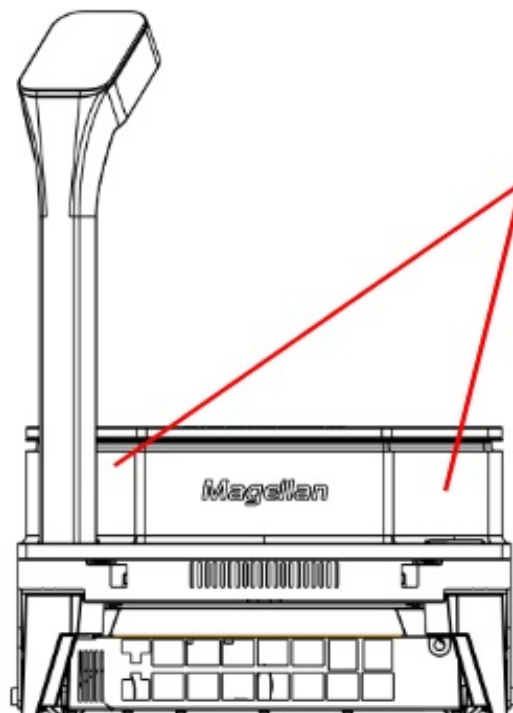
Figure 1. Affixing the Scale Certification Label



Right end of Scanner Bonnet



Left end of Scanner Bonnet

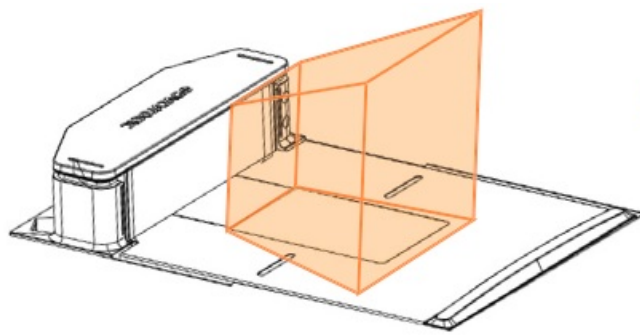


**Atop the Bonnet
underneath the Platter**

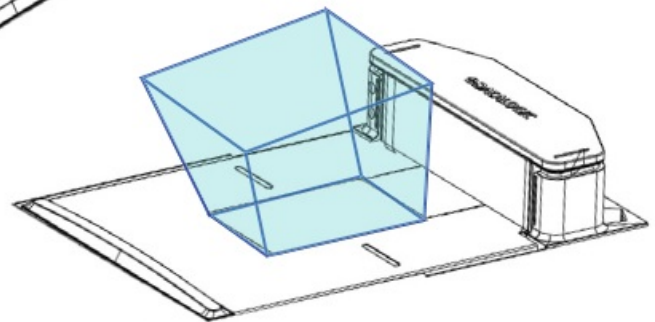
SCANNING ITEMS

Slide or push items through the scan zone in a right-to-left or left-to right movement. The scanner is equally efficient at scanning items in either direction. It is unnecessary to shift the position of the bar code, as the scanner can "read" it from the bottom, top, left, right, front and back side of an item, as long as it is fully within the scan zone.

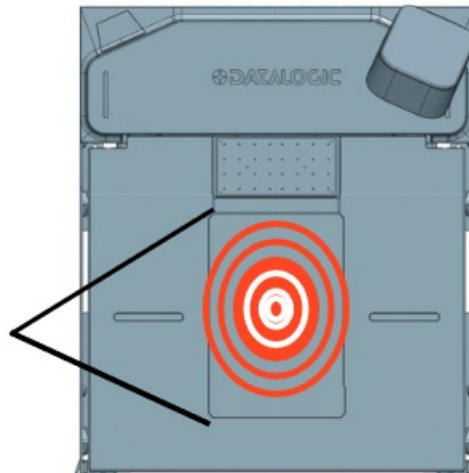
Figure 2. Scan Zones



Scan Zones for Main Scanner



Slide items over the center of the horizontal window for best scan coverage



For best scanning results...

- Keep items in their natural orientation. Don't favor any of the scan windows.
- Push or slide items instead of lifting them. Avoid unnecessary hand and wrist movements such as rotation, gripping or twisting, as this can cause repetitive motion injuries. This helpful technique can also allay the possibility of lifting thousands of pounds per day.

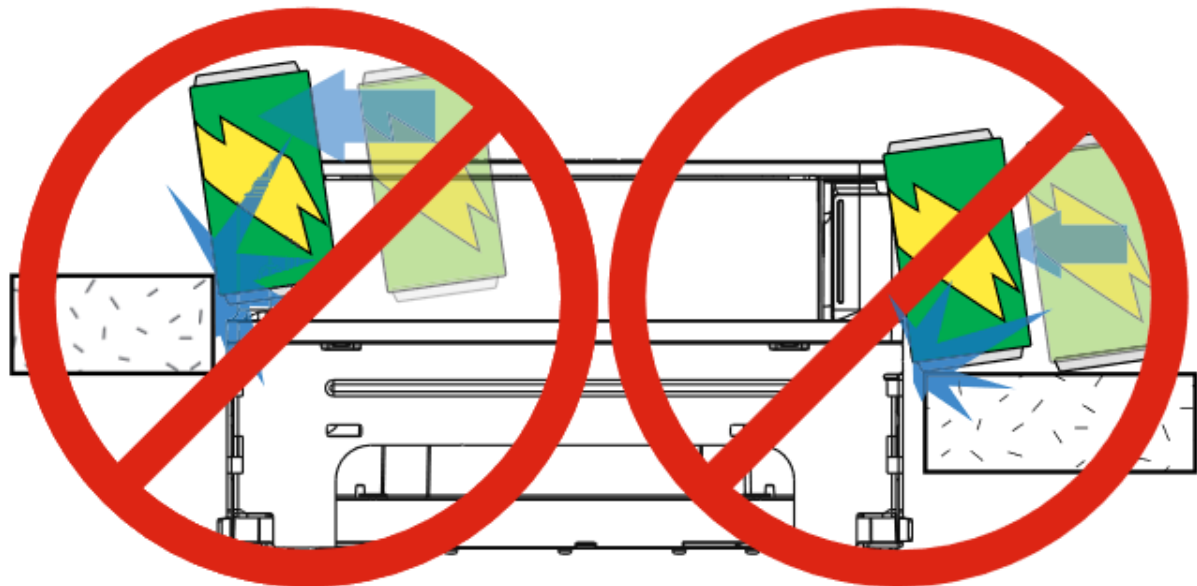
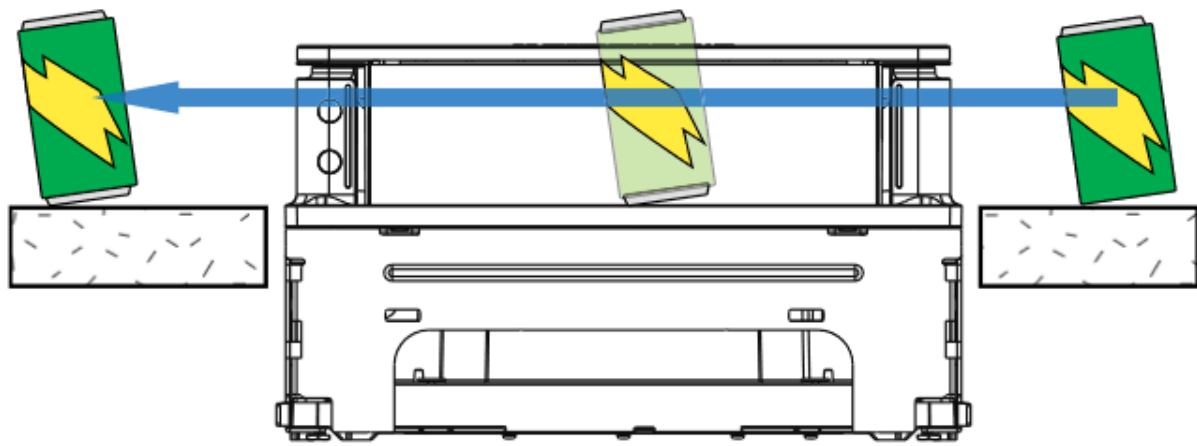


NOTE: If a POS terminal holds the scanner in a disabled state, the scanner enters limited scanning mode which allows reading of programming labels but 'chirps' other labels.

Scan Motion

The scanner has four high resolution cameras, a powerful quad core processor and state of the art decode software to ensure the fastest read rate in the industry even on the most challenging bar codes. It is important to verify that the platter has been installed flush with the countertop to enhance slide-through scanning (see Figure 1). If the platter is not flush with the counter, contact the installer or your technical support team for assistance.

Figure 3. Verify Flush Installation
Scanner Mounted Flush — Correct



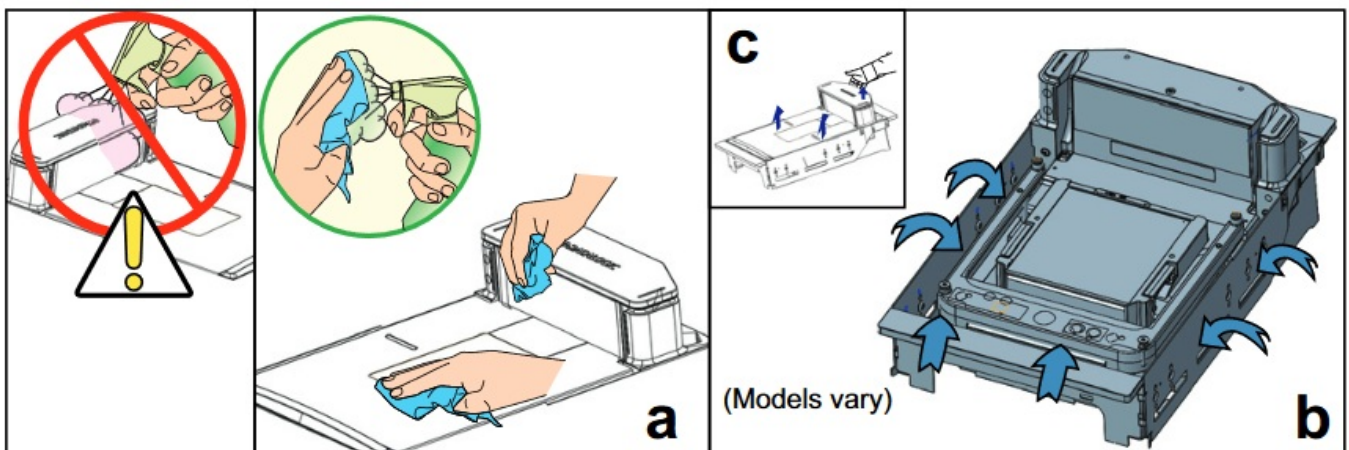
**Scanner Mounted
Below Flush — Incorrect**

**Scanner Mounted
Above Flush — Incorrect**

CLEANING

Exterior surfaces and scan windows exposed to spills, smudges or debris accumulation require periodic cleaning to assure best performance during scanning and weighing operations. Use a clean, lint-free cloth or paper towel dampened with a nonabrasive, mild, water-based window cleaner to wipe away stains, smudges, fingerprints, spills, etc. from the scan window and exterior surfaces.

Figure 4. Cleaning the Scanner





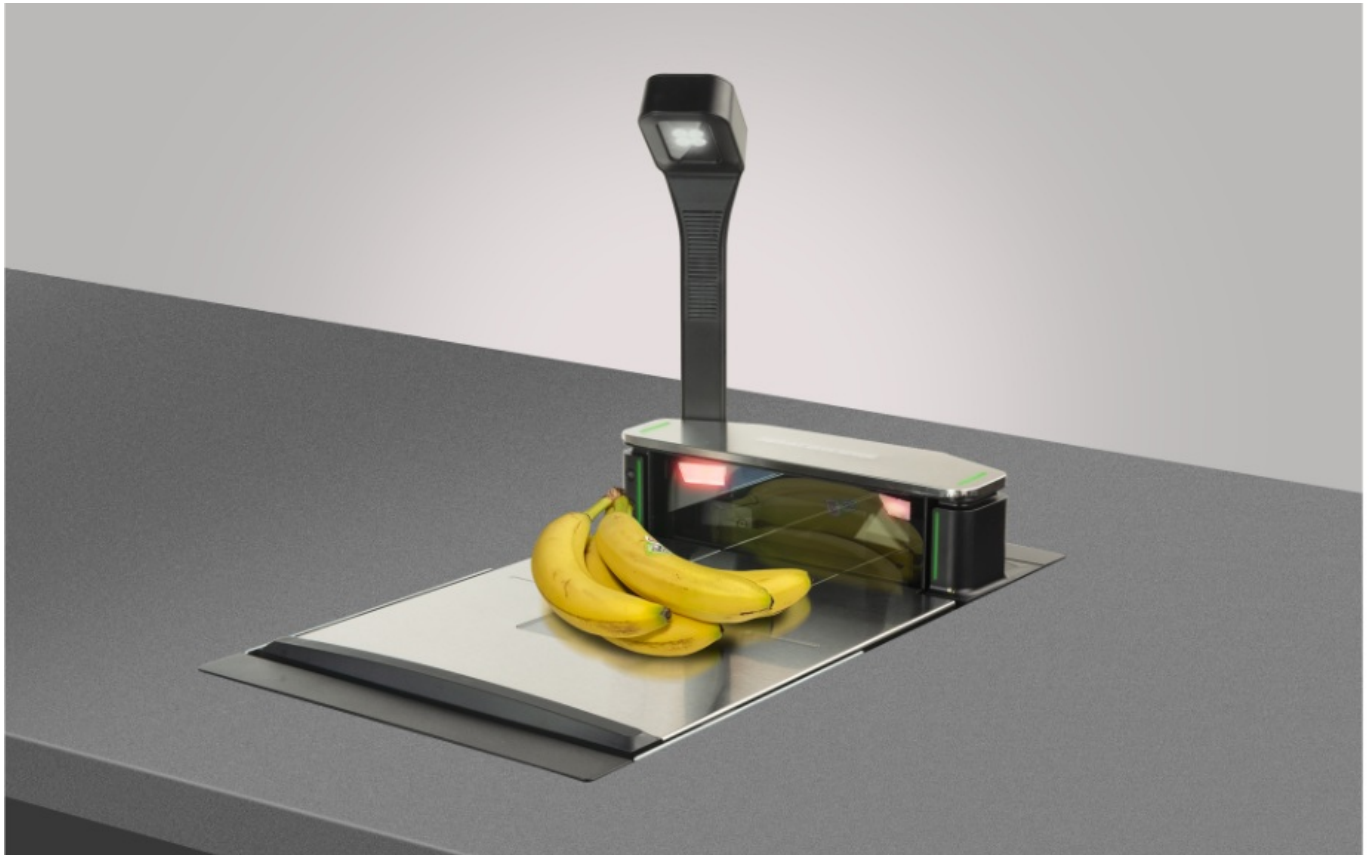
CAUTION: DO NOT use abrasive cleaning agents or abrasive pads to clean this product. Harsh chemicals, disinfectants, and cleansers can cause damage which will adversely affect scanning and weighing performance. Daily, clean the debris chutes between the platter and the outer housing. Most items can be cleared from the debris chutes by carefully running a thin, stiff object like a credit card along all sides of the weighing surface. If necessary, remove the platter to clean the debris chutes and drip rail.

WEIGHING ITEMS WITH THE ALL-WEIGHS® PLATTER (SCALE MODELS)

Items to be weighed can be placed anywhere on the L-shaped AllWeighs® platter (weigh platter) surface. The unique platter design allows you to place items anywhere on its surface. Oversized items can even be accurately weighed while leaned against the center of its vertical section.

In addition, the Produce Rail™ allows items to rest above the counter and other non-weighing surfaces. Once weighed items have been positioned, enter PLU (Price Look-Up) data as described in your POS system instructions. Item weight is displayed on the Remote Display and/or the host display.

Figure 5. Weighing Items



Scale Sentry™ Option

The optional Scale Sentry feature monitors items placed on the platter to detect and indicate if they are overhanging non-weighing surfaces. If the system's infrared (IR) beams sense items encroaching past the sides of the weigh platter, the speaker will sound a unique tone and/or the Scale Sentry LED indicator will illuminate to indicate a Scale Sentry error condition. A scale transaction cannot be completed until the item(s) are repositioned to rest fully on the platter (move them towards the center), clearing the condition. Reference the PRG for more Scale Sentry options and details.

ELECTRONIC ARTICLE SURVEILLANCE (EAS) DEACTIVATION OPTIONS



CAUTION: If applicable, apply power to the EAS Controller box before powering on the scanner. Deactivation of Sensormatic® or Checkpoint® EAS tags is an optional function. The scanner must be expressly enabled to perform in either capacity.



NOTE: The following items apply only to Sensormatic EAS systems. They do not apply to Checkpoint or Nedap EAS systems.

- For an EAS tag to be deactivated it must be close enough to the glass panel on the platter to be sensed
- The scanner will emit a “bonk” sound on attempts to deactivate the EAS tag

Sensormatic Coupled Mode

When the scanner is configured to use Coupled EAS Deactivation Mode, deactivation of a given item happens automatically following its bar code being successfully read.

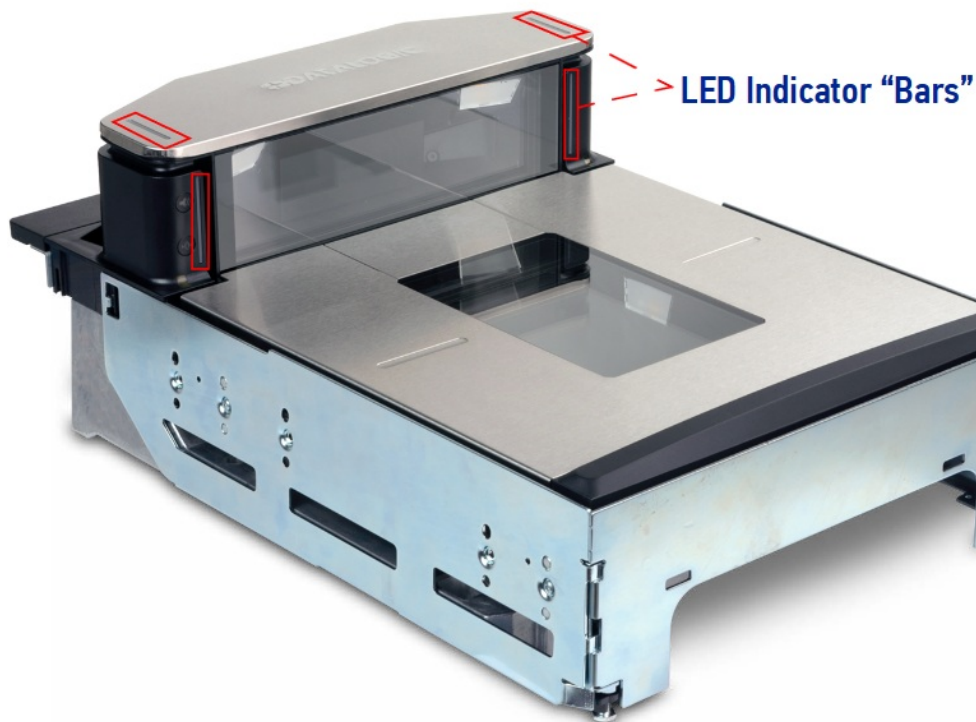
Sensormatic Decoupled Mode

When in Decoupled Mode, deactivation is independent of the scanning function. To deactivate an active EAS tag, simply place it on the platter or pass it over the scanner, in the same manner you would scan a bar code.

CONTROLS AND INDICATORS

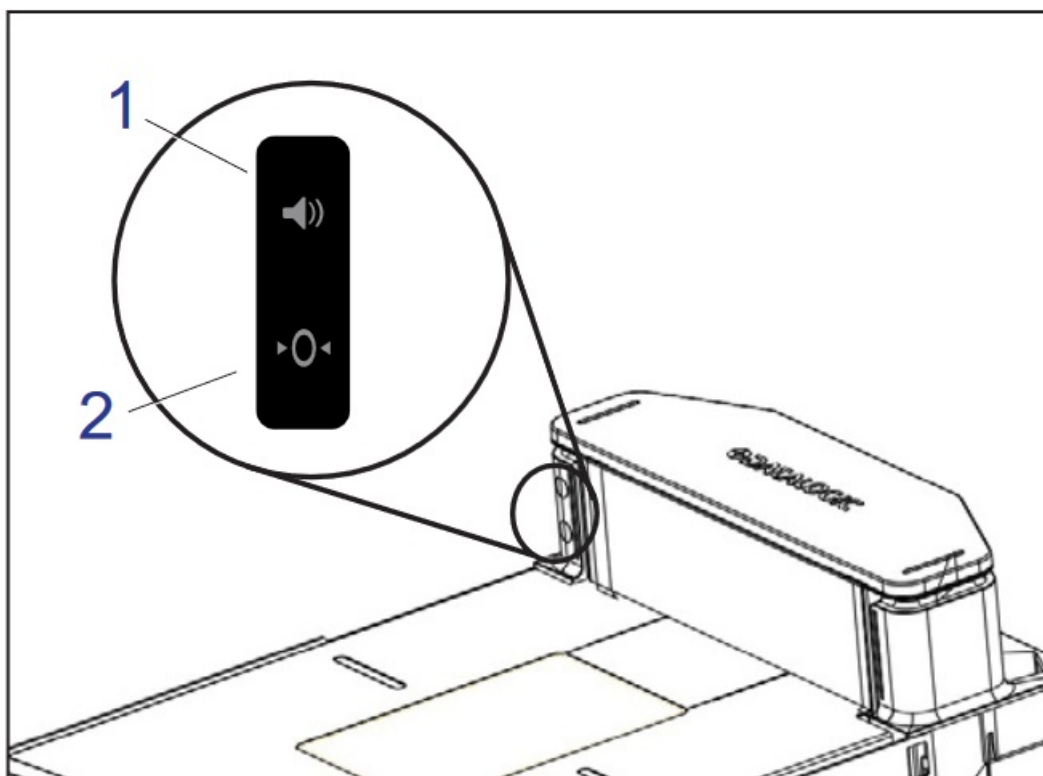
The base model features two prominent LED indicator bars on top of its vertical “bonnet” and two front-facing LED indicator bars, as shown below.

Figure 6. LED Indicators



Control Buttons and Indicator LEDs

A panel on the left side of the vertical scan window contains control buttons and more LED indicators. Additionally, a configurable speaker is used to sound scanning, weighing and EAS deactivation indications.



1. Scanner Control Button

- If the scanner is “asleep”, press this button to wake it up.
- Press this button momentarily to enter beeper volume change state. Select one of five volume settings.
- Press this button between 1 and 4 seconds to enter beeper tone change state.
- Press this button between 5 and 9 seconds to enter Scanner Diagnostics Mode.
- Press this button for 10 seconds to initiate a soft reset.



2. Scale Zero Button

With all weight removed from the scale, push this button to set the scale to zero.

LED AND BEEPER INDICATIONS

The scanner’s beeper sounds and its lamps and indicator LEDs illuminate to indicate various functions or errors. The tables in this section list some of these indications. Reference the PRG for a more complete listing. One exception to the behaviors listed is that some functions are programmable, and may or may not be turned on. For example, certain indications such as the power-up beep can be disabled using programming bar code labels.

INDICATION	SCANNER LED	BEEPER			
		Count	Frequency	Volume	Duration

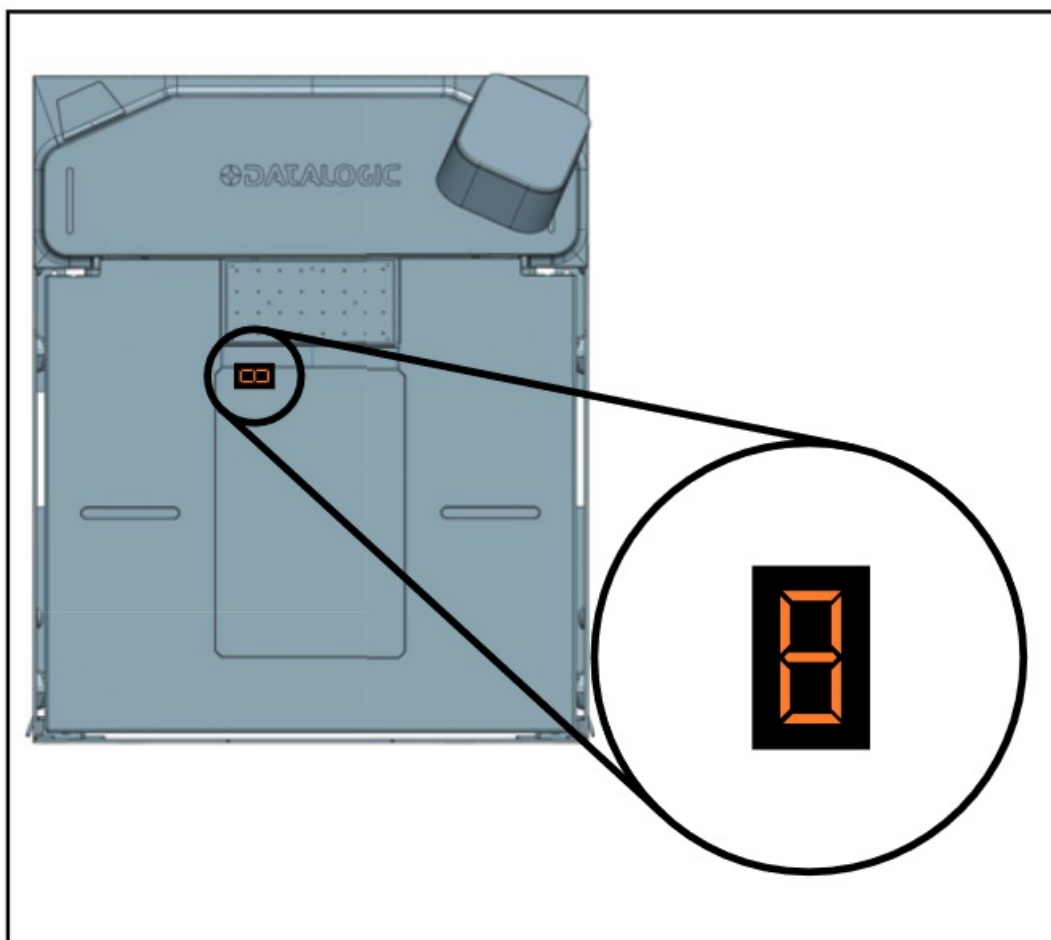
Preoperating Mode	OFF	OFF			
Power-up Beep Default sound is a synthesized chord ending with two light bells.	N/A	Unique WAV file sound.			
Good Read Beep Frequency, volume and duration are configurable	Bright flash	1	Current	Current	Current
ROM Failure Indicates either Boot or Program ROM failure.	200ms ON 200ms OFF	1	Error	Highest	200ms ON 200ms OFF
Scanner Active Mode The scanner is ready for operation. Scanning is immediately available.	On steady and dim	N/A			
Scanner Disabled The Host has disabled scanning.	Continuous blink 100ms ON / 900ms OFF	N/A			
Sleep Mode The scanner has been inactive for a period and is in a power-saving mode.	10ms ON 190ms OFF	N/A			

<p>Chirp Indications</p> <p>A “Chirp” is used to indicate the following:</p> <ul style="list-style-type: none"> -Reading labels while in limited scanning mode. -Label rejection during label programming. -A label with no data. -Labels rejected through the auxiliary port when in Scanner Diagnostics Mode. 	N/A	6	Highest	Current	20ms ON 20ms OFF
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<p>Scale at Zero</p> <p>The scale is at rest and reads zero weight. The scale is ready to weigh.</p>	On steady	N/A
<p>Scale Error Reporting</p> <p>When the scanner is in Scale Diagnostics Mode, the Remote Scale Display and the Scale LED indicator can communicate specific scale failures. See the PRG for more details.</p>	Coded sequence	N/A

Error Codes

Upon startup, if the scanner sounds a long error tone then alternating flashing of the green and yellow LED indicators, and an error code is displayed on the Health & Status Indicator, the scanner has not passed its automatic Selftest and has entered FRU (Field Replaceable Unit) isolation mode. The scanner remains in this mode until any button is pushed.



After a button is pushed, the scanner flashes the green LED a set number of times to indicate the error code. After one cycle of flashing has passed, another button push resets the scanner. The PRG describes the LED flash codes associated with an error found. If your scanner indicates any of these errors, note the code number, then contact Helpdesk for assistance.

Label Programming Mode Indications

These indications occur only when the scanner is in Programming Mode or when placing the scanner in that mode.

INDICATION	LED	BEEP(S)
Label Programming Mode Entry	Continuous blink 1 sec. ON / 1 sec. OFF	Same as good read indication
Acceptance of Partial Labels	N/A	1
Partial Label Reading Cancel	N/A	6
Acceptance of Complete Labels	N/A	3

Sensormatic® EAS Indications

If the scanner is equipped with the optional Sensormatic EAS option, various deactivation and validation indications will be enabled.

INDICATION	BEEPER			
	Count	Frequency	Volume	Duration
Entering EAS Coupled Mode	N/A			
Upon sensing an inactive to active transitiona	N/A			
Upon sensing an active to inactive transitiona	N/A			
Upon receiving validation of EAS tagged activation	1b	~ 1500 Hz	Current	Configurable
EAS Bad Beepa	Same as FRU error tone			

a. While in EAS Coupled Mode.

b . Beep sounds only if configured (see the PRG for options).

DATALOGIC WARRANTY

Datalogic warrants that the Products shall be free from defects in materials and workmanship under normal and proper use during the Warranty Period. Products are sold on the basis of specifications applicable at the time of manufacture and Datalogic has no obligation to modify or update Products once sold. The Warranty Period shall be one year from the date of shipment by Datalogic, unless otherwise agreed in an applicable writing by Datalogic. Datalogic will not be liable under the warranty if the Product has been exposed or subjected to any: (1) maintenance, repair, installation, handling, packaging, transportation, storage, operation or use that is improper or otherwise not in compliance with Datalogic's instruction; (2) Product alteration, modification or repair by anyone other than Datalogic or those specifically authorized by Datalogic; (3) accident, contamination, foreign object damage, abuse, neglect or negligence after shipment to Buyer; (4) damage caused by failure of a Datalogic-supplied product not under warranty or by any hardware or software not supplied by Datalogic; (5) any device on which the warranty void seal has been altered, tampered with, or is missing; (6) any defect or damage caused by natural or man-made disaster such as but not limited to fire, water damage, floods, other natural disasters, vandalism or abusive events that would cause internal and external component damage or destruction of the whole unit, consumable items; (7) use of counterfeit or replacement parts that are neither manufactured nor approved by Datalogic for use in Datalogic-manufactured Products; (8) any damage or malfunctioning caused by non-restoring action as for example firmware or software upgrades, software or hardware reconfigurations etc.; (9) loss of data; (10) any consumable or equivalent (e.g. cables, power supply, batteries, etc.); or (11) any device on which the serial number is missing or not recognizable.

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Documents / Resources

 The image shows the cover of a 'QUICK REFERENCE GUIDE' for the 'MAGELLANTM 9900i'. It features a photograph of the scanner device and the Datalogic logo at the bottom.	<p>DATALOGIC MAGELLANTM 9900i Omnidirectional Imaging Scanner [pdf] User Guide MAGELLANTM 9900i Omnidirectional Imaging Scanner, MAGELLANTM 9900i, Omnidirectional Imaging Scanner, Imaging Scanner, Scanner</p>
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References

- [Datalogic | Automatic Data Capture and Process Automation - Datalogic](#)
- [Patents - Datalogic](#)
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