MAGELLAN™ 3410VSi

QUICK REFERENCE GUIDE



Omni-Directional Imaging Scanner

ODATALOGIC

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Patents

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

This manual refers to software version DR9401453.

ORIGINAL INSTRUCTIONS

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

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NOTES

MAGELLAN™ 3410VSI

Use this guide to quickly complete installation of the Magellan 3410VSi series of bar code readers, and begin using your scanner. For more details and programming information, reference the Product Reference Guide (PRG), which is available for viewing and download from the Datalogic website (www.datalogic.com).

FEATURES

Figure 1. Scanner Features - Front View

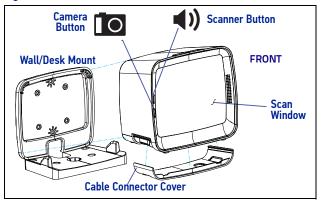


Figure 2. Scanner Features - Back View

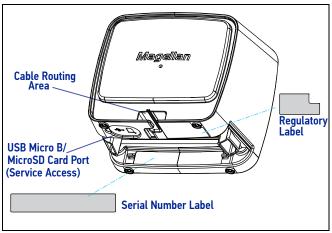
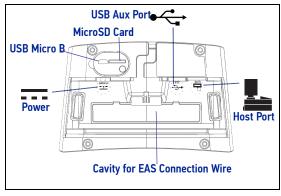


Figure 3. Scanner Features - Bottom View



INSTALLATION

Connect the scanner to the host (terminal) using the interface (I/F) cable, as shown in the following figures. A cable from an older existing installation can be re-used for RS-232 interfaces. If external power is used/needed, plug the AC Adapter into the AC wall outlet, then connect it to the unit as shown in Figure 5 on page 4.

The USB AUX PORT will only be supported by using a 12V power supply or using a USB + POWER 12V port. If the scanner is powered only by the standard USB cable as shown in Figure 6 on page 4, an auxiliary scanner will not be supported.

After the scanner has fully powered up and indicates that it is ready for operation, scan some known-good bar code samples to verify correct operation. The scanner should beep and/or flash its good read LED₁ and send the bar code data to the host or terminal. If not, use the Troubleshooting section of this guide to identify any problems.

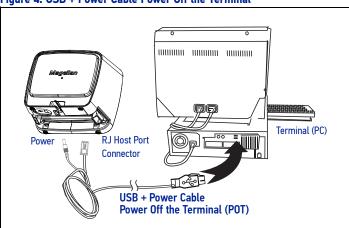


Figure 4. USB + Power Cable Power Off the Terminal

^{1.} Beeper and LED behavior may have previously been configured as "disabled" by another user.

Figure 5. Powered by AC Adapter

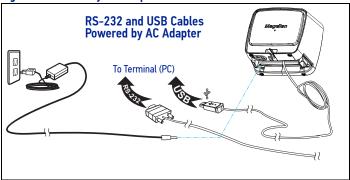
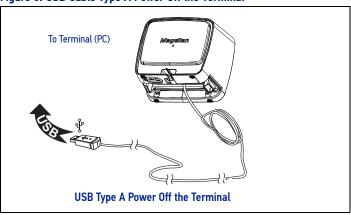


Figure 6. USB Cable Type A Power Off the Terminal





NOTE: This cable (or similar) will not support a USB peripheral. The system must be powered by 12V in order for a peripheral to be attached to the AUX USB PORT.

Wall/Desk Mount

The Wall/Desk Mount is an accessory part to which the scanner can be attached. The accessory can be mounted horizontally to a desk, countertop, or table using screws or a gooseneck stand. It can also be mounted vertically to a wall using screws, or to a VESA mount.

Installation Instructions

- 1. Determine the mounting location. While deciding on the best position, keep in mind the best way to route the scanner cables. You may need to drill a hole for them.
- 2. Use two #8 screws (sheet metal screws are preferred) to securely fasten the Mount in the position desired, as shown in the following figures.

Desk (Horizontal) Mounting



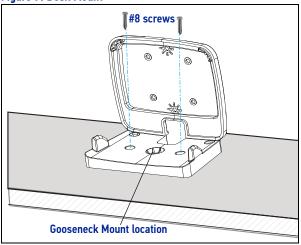
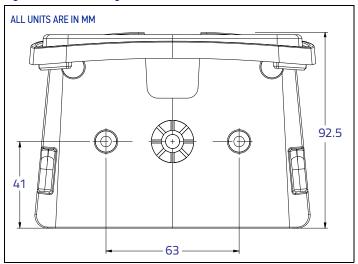


Figure 8. Desk Mounting Dimensions



Wall (Vertical) Mounting

Figure 9. Wall mount

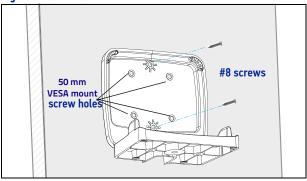
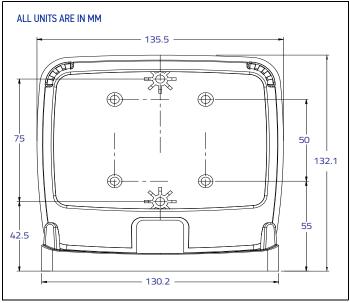


Figure 10. Wall (Vertical) Dimensions



Attaching/Detaching the Scanner

The scanner attaches or detaches from the Wall/Desk Mount as shown in the illustration below.

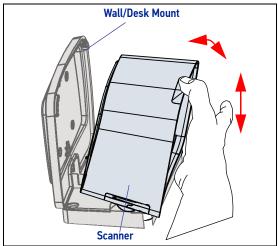
Seating the Scanner in the Mount

- Guide the scanner diagonally down, seating the L-Bracket tabs on the Mount into the scanner's slots.
- 2. Push the scanner down to snap into place.

Detaching the scanner

- Tilt the top of the scanner forward, separating it slightly from the back of the mount.
- 2. Pull up to detach. If oriented correctly, it should come out easily.

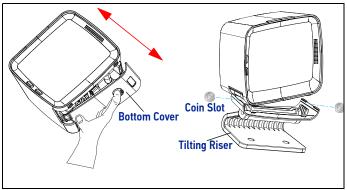
Figure 11. Attaching/Detaching scanner from Mount



Bottom Cover / Tilting Riser

To remove the Bottom Cover, put your finger in the hole and pull it away from the scanner, at an angle. The snaps will disengage on that side and the cover will release from the scanner. Attach the Tilting Riser by snapping into the place of the Bottom Cover.

Figure 12. Attaching the Tilting Riser



When removing the Tilting Riser, note that the snaps on the riser may be tight. If necessary, use a coin or other flat tool in the provided slots (as shown above) to separate the snaps and release the riser.

Mounting the Riser

The Adjustable Riser can be mounted to a flat surface using two #8 screws.

Figure 13. Mounting the Tilting Riser

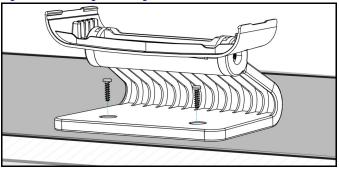
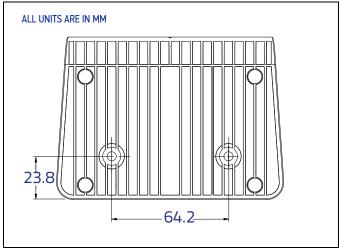
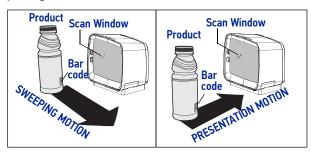


Figure 14. Tilting Riser Dimensions



HOW TO SCAN

Bar codes can be presented to the scanner's window or pushed past it using a "sweep" technique. The scanner can also be programmed to initiate a scan of a cell phone or other LCD bar code object, or an image capture upon pushing the Camera Button.



Scanner Button

The Scanner Button performs multiple functions, depending on how long it is pressed:



NOTE: Volume changes made using the Scanner Button are lost when the scanner is powered down and are reset to the configured setting. If you wish to permanently change the volume, use the programming labels in the Product Reference Guide

PRESS DURATION	FUNCTION	COMMENT
Momentary (when scanner is asleep)	Wakes scanner from Sleep Mode	Alternatively, the scanner can be awakened by: - Moving an object through the scan zone Scanning with an attached auxiliary scanner.

PRESS DURATION	FUNCTION	COMMENT
Momentary (when scanner is awake)	Increments volume	Press the button momentarily to increase speaker volume. When the loudest volume is reached, a repeated press of the button cycles volume back to the lowest setting, then volume increases on subsequent press(es). Five volume levels are available.
Hold, then release when the beeper sounds	Increments tone	Press the button for approximately 2 seconds, then release. Each time this is done, the beeper will sound at one of three tones. Stop when the desired tone (high, medium or low) is sounded.
4 Seconds	Scanner Diagnostics Mode ^a	This mode allows system support personnel to troubleshoot problems with the scanner and is used to determine if it can read bar codes. Press the button for 10 seconds or cycle power to exit Scanner Diagnostics Mode and reset the scanner.
10 Seconds	Resets Scanner ^b	Only system support personnel should perform a reset.

- a. By standard default, this function is normally disabled to prevent accidental activation by users.
- b. Users should not perform scanner resets except under the direction of trained systems support personnel.

Camera Button

The Camera Button provides the unit with the ability to capture images. See "Camera Button Mode" on page 18 to enable this feature. Destination and image type can be specified. Reference the PRG for additional information and programming options.

LED AND BEEPER INDICATORS

The scanner's beeper sounds and its green LED illuminates to indicate various functions or errors on the scanner. The tables that follow list these indications. An exception is that the scanner's functions are programmable, and may or may not be turned on. For example, some indications (such as the power-up beep) can be disabled using programming bar code labels.

LED INDI- CATION	INDICATION	COMMENT
Power-up indication	Constant bright green	Indicates the scanner is running power-up tests and is not yet ready for operation.
Good Read Indication	Bright green flash	Indicates a bar code has been read and decoded.
Scanner Ready	Constant dim green	The scanner is ready for operation.
Sleep Mode	Green LED flashes every 2 seconds (10mS on, 1990mS off).	The scanner is in Sleep Mode. To wake the scanner up, move an object in front of its window or press the Scanner Button. This indication is optionally configurable, and may have been programmed to behave differently.
Host Disable	Constant green flash at 1 Hz (100mS on, 900mS off)	The scanner is disabled due to receiving a disable command from the POS terminal.
Diagnostics	Varies (see "Error Codes" on page 15 for more information)	The LED can provide diagnostic feedback if the scanner discovers a problem during SelfTest.
Prog. Mode	Constant green flash at 1 Hz (500 ms on, 500 ms off).	The scanner is in Programming Mode.

Beeper Indicators

BEEPER	INDICATION	COMMENT
Power On Beep	Single beep	The Power-On LED indication is a configurable feature which can be enabled or disabled. When enabled, this beep indicates the scanner has finished all its power-up tests and is now ready for operation.
Good Read Indication	Single beep	The good read beep indication is configurable. Options include: Enable/ disable, frequency, duration and volume. See the Product Reference Guide (PRG) for more information.
Diagnostics	Varies (see "Error Codes" on page 15 for more information)	The Beeper can provide diagnostic feedback if the scanner discovers a problem during SelfTest.
Programming Mode Indications	Varies depending upon the feature(s) being configured.	The Beeper will sound as programming bar code labels are scanned, indicating progress during scanner configuration.

TROUBLESHOOTING

PROBLEM	SOLUTION
Scanner does not power on	Exchange the power supply with a known good power supply and retest operation.
No communication with the host	Consult your technical support personnel or refer to your host system manual to verify the proper interface type, cable and connection port(s) for the scanner. Verify the interface cable is securely attached to the host and the scanner.
The scanner will not read bar codes at all, or reads poorly	Make sure the window is clean. Check that the bar codes are of sufficient quality to be recognized by the scanner. Wrinkled, smudged, or torn labels can cause the scanner to not read at all. Scan known-good labels of an active symbology to check the scanner's read operation.

PROBLEM	SOLUTION

If the scanner still does not function properly, consult the Product Reference Guide (PRG) or contact your local supplier or Datalogic Customer Support Services.

a. Reading of the various bar code symbologies can be independently enabled or disabled in the scanner.

ERROR CODES

If an error is detected, the scanner will sound a long low tone (for three seconds) and flash its LED, indicating a failure. When this occurs, press the Scanner button to hear the error code. If it is configured to do so, the scanner will sound a series of beeps corresponding to the error code and/or flash its LED simultaneous to the beeps. The table below describes what these codes mean and what action should be taken for each.

NUMBER OF LED FLASHES/BEEPS	ERROR	CORRECTIVE ACTION
1	Configuration	
2	Host Interface	
6	Main PCB	Contact Helpdesk for assis-
10	Button Error	tance
11	USB Device	
13	CPLD ID	

PROGRAMMING

Upon completing the physical connection between the scanner and its host, proceed directly to the Programming Bar Codes table below to locate the interface type the scanner is connected to (for example: RS-232, USB, etc.).

Use the Bar Code Mask at the back of this manual to isolate the bar code you intend to scan. Scan a START/END bar code once to enter Programming Mode. After scanning the programming label for the desired interface, scan the START/END barcode a second time to accept your changes, exit Programming Mode and return the scanner to normal operation.

Select other options and customize your scanner with programming barcodes available in the PRG, or use the Datalogic Scanalyzer utility available on the Datalogic website.



NOTE: In the following sections, text shown with a green star indicates a factory default value.



This is an example of a default value.

Interface Selection



PROGRAMMING BAR CODES



RS-232 Standard



RS-232 Wincor-Nixdorf





USB-0EM



USB Keyboard



USB COM Interface



NOTE: Reference the Product Reference Guide (PRG) or Datalogic Scanalyzer utility for additional options.

Imaging Features

See the PRG for more information on these features.

Camera Button Mode

Scan one of the bar codes below to enable or disable the camera button.



	Camera Button Mode =
Camera Button Mode = Enable	

Image Destination

Specifies the destination for pictures/images taken with a camera button press.



	★ Image Destination = Disable
Image Destination = SD card	
	Image Destination = Host port

Cell Phone Mode

Enables/disables mobile phone barcode reading.



	Cell Phone Mode = Enable (Toggle)
Cell Phone Mode = Enable (Always On)	
	Cell Phone Mode = Enable (Timer Expiration)

Cell Mode Percent

Specifies the rate of frames dedicated to reading cell phones. Cell phone mode must be enabled for this to be active.



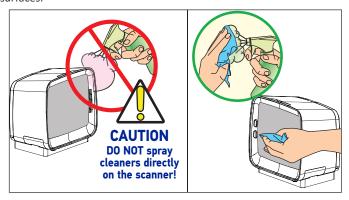
NOTE: Settings above 10% will slow down read performance on printed barcodes.



	Cell Mode Percent = 5% (Very Low)
Cell Mode Percent = 10% (Low)	
	Cell Mode Percent = 20% (Medium)
Cell Mode Percent = 30% (Med High)	
	Cell Mode Percent = 50% (High)

CLEANING

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





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 persformance.

See the next page for a list of Manufacturer Approved Cleaning Materials.

Manufacturer Approved Cleaning Materials

Datalogic recommends the use of the following cleaners on its products.



APPROVED CLEANERS

- Hydrogen Peroxide (not to exceed a 3% solution)
- Chlorine bleach (not to exceed a 0.25% solution)
- Mild detergent and water
- Isopropyl Alcohol (not to exceed a 70% solution)



CAUTION: Use of above cleaners in combination with each other is not recommended and may constitute a health hazard. Follow all specified safety precautions when using any cleaning solution.

Under no circumstances should abrasive cleansers, abrasive pads. caustic solutions or other harsh chemicals, including those listed below, be used on any part of the scanner as they can cause damage which will adversely affect scanning performance. Use of such materials, either alone or in combination with other cleaning agents, will void the manufacturer's warranty.



!!DO NOT USE!!

- Ammonia solutions
- Acetone
- Benzene
- **Ethanolamine**
- Ethers
- Ketones

- Trichloroethylene
- Toluene
- · Carbolic acid
- · Aromatic or chlorinated hydrocarbons
- Aqueous or alcoholic alkaline solutions

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 **three years** from the date of shipment by Datalogic, unless otherwise agreed in an applicable writing by Datalogic.

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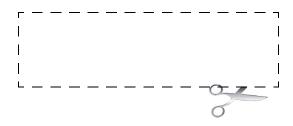
GOING GREEN

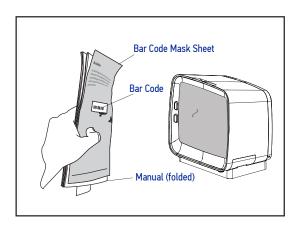
Thank you for using the bar code mask on the opposite side of this page. This manual has been formatted to minimize the quantity of pages needed to provide the programming bar codes available for this product.



BAR CODE MASK

Cut a hole in this page and remove it from the manual as indicated to create a sleeve through which bar codes can be individually viewed and scanned. It is important that only one bar code at a time be presented to the scanner.





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