

Datalogic S.r.l.

Via San Vitalino 13
40012 Calderara di Reno (BO)
Italy
Tel. +39 051 3147011
Fax +39 051 3147205

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EULA

See www.datalogic.com/eula.

Patents

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

Reference Documentation

For further information refer to the SDK help on-line and to the Datalogic Smart Portal User's Manual, downloadable from our website <https://developer.datalogic.com/mobile-computers>.

Support Through the Website

Datalogic provides several services as well as technical support through its website.

Log on to www.datalogic.com.

For quick access, from the home page click on the search icon , and type in the name of the product you're looking for. This allows you access to download Data Sheets, Manuals, Software & Utilities, and Drawings.

Hover over the Support & Service menu for access to Services and Technical Support.

DATALOGIC
SMART PORTAL
QUICK START GUIDE



DATALOGIC

Entrance Unit/
Barcode Reader with 1D/2D Imager
Model: MGRWF

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

Warranty Terms and Conditions

Refer to the Datalogic Smart Portal User's Manual, downloadable from our website.

Read the following QR code for quick access to the product page. This allows you access to download Data Sheets, Manuals, Software & Utilities, and Drawings.



www.datalogic.com



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OUT OF THE BOX

The Datalogic Smart Portal Entrance Unit standard package contains:

- Datalogic Smart Portal Entrance Unit device
- Quick Start Guide
- Safety & Regulatory Addendum

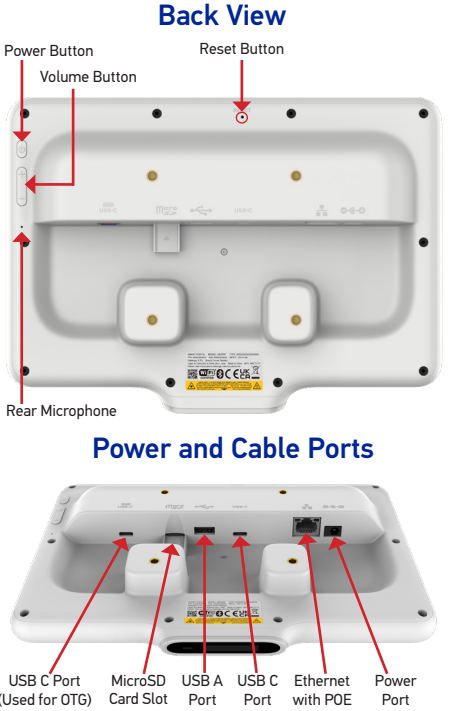
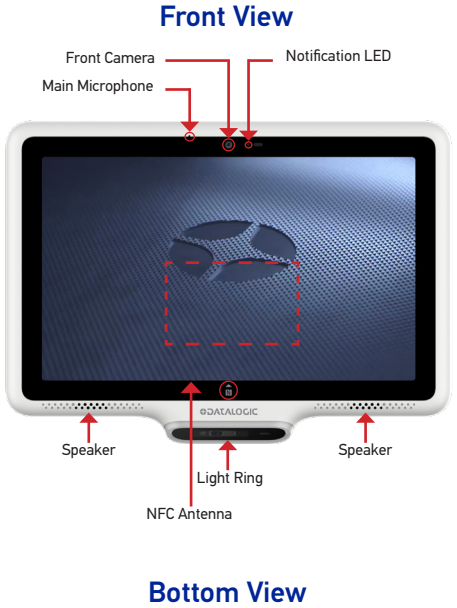
Remove all the components from their packaging; check their integrity and compare them with all the packing documents.

NOTE: Depending on the ordered kit, accessories such as wall bracket, power adapter kit or USB-C cable may be supplied as additional items in separate small boxes.

Always refer to the packing list and the sales order to confirm the exact contents.

CAUTION: Keep the original packaging for use when sending products to the technical assistance center. Damage caused by improper packaging is not covered under the warranty.

FEATURES



Features Description

Item	Function
Top Panel Display	Displays all information needed to operate the device.
Scan Window	Reads a barcode.
Light Ring	Provides visual feedback for successful/failed scans and other system status indicators.
Front Camera	Used for customer interaction, video calls, and other front-facing imaging scenarios.
NFC Antenna	Reads NFC tags.
Microphone	Used for communications in Speakerphone mode.
Reset	Allows hardware reset using a small tool such as a paper clip. It is intended for maintenance and service operations only.
Interface Connectors	See Power and Cable Ports.
Volume Button	Increase and decrease audio volume.
Speaker	Provides audio output for video and music playback. Provides audio in speaker-phone mode.
Proximity Sensor	Identifies the proximity of a user turning up the display.

CAUTION: The Reset Button is intended only for maintenance/service operations. Do not use it during normal daily operation.

CHARGE THE DEVICE

Use the DC Power Adapter

1. Ensure that the power adapter kit you use matches the local mains standards and plug types.
2. Connect the DC plug of the power adapter to the DC-in connector on the device, depending on the kit.
3. Plug the AC side of the adapter into a suitable mains outlet.
4. When the device is completely powered off, it will automatically start the boot sequence as soon as it is powered.

Use the Power Over Ethernet (PoE)

1. Use a PoE switch or PoE injector compliant with IEEE 802.3at (PoE+ / Type 2).
2. Connect an Ethernet cable from the PoE source to the RJ45 port on the device.
3. The device will receive both data and power through the same Ethernet cable.

 **CAUTION: Incorrect power methods or wiring may damage the device or create safety hazards. Always follow electrical codes and installation instructions.**

SD CARD

Supported Cards

- One user-accessible microSD card slot is provided.
- Tool-less insertion and removal are supported.
- Hot insertion and removal (hot plug/hot extraction) are supported.
- Compatible with SDXC microSD cards, supporting capacities up to 2 TB.

Install The microSD Card

1. Make sure that the system or applications are not accessing the storage card.
2. Locate the microSD card slot on the back of the device housing.
3. Insert the microSD card in the correct orientation according to the icon near the slot, and push it in until the contacts are fully inside the slot.
4. Gently press the card until it is fully seated and you feel or hear a light “click”.



Remove The microSD Card

Press the card once to release it, then pull it out.

 **CAUTION: Removing a microSD card while the data is being read or written can result in data corruption, loss of data, or damage to the card.**

NFC

Overview

- Integrated NFC reader/writer module based on NXP7221.
- Supports NFC Forum standard tag types (e.g. T2T, T3T, T4T, T5T).
- Supports:
 - NFC tag reading and writing
 - Bluetooth pairing and tap-to-configure
 - Card emulation for ticketing, access control and similar use cases.

The NFC area is located at the bottom center of the display.

Use the NFC

1. Enable NFC in the Android settings or in the application, if required by the use case.
2. Instruct users to tap their card or NFC-enabled device at the bottom-center of the display, where the NFC logo appears.
3. Follow the on-screen messages or audio/LED feedback to confirm that the operation is successful.

LED INDICATORS

LED Behavior	Operation Status
Light Ring (Good Read Notifications)	
Solid blue (3 sec)	Powered ON
Blinking green	Good read (barcode is successfully decoded)
Blinking red	Fault
Fading red	Scan failure
Notification LED (Power Status/ Android System Notifications)	
Solid green	DC power connected (PoE or wall adapter)
Blink red	Android notifications alarming

 **NOTE: Exact colors and blinking patterns can be configured through the Datalogic SDK and device settings.**

POWER ON/OFF AND RESET

Power On

Press the Power button.
When the device is completely powered off, it automatically starts the boot process once external power is applied.

Software Shutdown

The device can be safely powered off using the standard Android graphical interface, or a shutdown function provided by the customer application.

Configuration/ Factory/ Enterprise Reset

The device supports several Datalogic configuration reset methods, including but not limited to:

- Recovery mode menu
- Reset functions in Android system settings
- Enterprise configuration/reset via Datalogic APIs

For detailed procedures and precautions, refer to the User Manual and service documentation.

Hardware Reset (for Service Only)

A dedicated reset pin-hole on the side of the device allows hardware reset using a small tool such as a paper clip.

 **CAUTION: Perform a hardware reset only if the device does not respond to normal shutdown or restart operations. It should be performed by trained service personnel, or under the guidance of technical support.**

SCANNING AND IMAGING

Scan Engine

- Integrated near-field scan engine (typical working distance approx. 50–70 cm), suitable for entrance and kiosk scenarios.
- Scan module: Datalogic Halogen™ DE2121-DL (“Argon”), located behind the scan window.
- Supports common 1D and 2D barcode symbologies according to the engine specifications.

Good Read Feedback

- Supports Datalogic Green Spot and the RGB light ring around the scan window.
- Solid green: successful barcode read.
- Solid red: barcode reading failure.
- Depending on software configuration, the device may also provide beep and/or vibration feedback.

Auto-Scan and ToF Triggering

The scanning system supports auto-scan presentation, a scanning mode based on a ToF sensor. Actual behavior is determined by system software and customer application configuration.

Use the Scanner (Bottom Scanning)

To scan a barcode symbol:

1. Place the barcode under the light ring from a distance within the reading range.
2. Align the barcode within the aiming area of the scan engine.



If the scan has been successful:

- If enabled, the good read beep plays.
- If enabled, the GreenSpot projects a green spot onto the bar code image.
- If enabled, the Light Green LED glows solid green.

 **LASER LIGHT** DO NOT STARE INTO BEAM CLASS2 LASER PRODUCT. OUTPUT RADIATION 100% MAX. EMISSION WAVELENGTH 655 nm typ. 30ms PULSE. IEC 60825-1:2014 and EN 60825-1:2014 + A11:2017. Risk Group 2. CAUTION: Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to the eyes. Refer to manual for precautions. 