Datalogic Smart Portal

USER'S MANUAL



Entrance Unit/ Barcode Reader with
1D/2D Imager

DATALOGIC

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Patents

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

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INTRODUCTION

CONVENTIONS

"Smart Portal", "device," "terminal," or "equipment" refer to the Datalogic Smart Portal Entrance Unit.

The terms "operator," "installer," and "maintenance personnel" refer respectively to device users, installation personnel, and maintenance personnel.

Unless otherwise specified, any pictures, labels, interfaces, or illustrations shown in this document may be draft versions. Refer to the product labels for more precise information.

The following conventions are used throughout this manual:



NOTE: Provides supplementary information, recommendations, or background details.



CAUTION: Indicates information that may help prevent device malfunction, data loss, or improper operation.



WARNING: Indicates potential risks that may affect personal safety or device safety.

PRODUCT OVERVIEW

The Datalogic Smart Portal Entrance Unit is a smart entrance terminal designed for retail, self-service, and fixed interactive deployment scenarios. It is typically installed at store entrances, self-service areas, or specific service touchpoints, and serves as an entry terminal for user interaction and business workflow triggering.

Based on the Android platform, the device integrates display, touch input, barcode capture, NFC read/write capability, network connectivity, audio interaction, and a front camera. It can work together with upper-layer applications, backend platforms, and peripheral systems to support user identification, barcode scanning, NFC interaction, information display, and workflow integration.

Unlike typical handheld mobile terminals, the Datalogic Smart Portal Entrance Unit is designed primarily for fixed installation scenarios. It operates with continuous external power input and supports both PoE and DC power supply, making it suitable for long-term powered deployment.

Slim and Functional Design

The Datalogic Smart Portal Entrance Unit adopts an integrated fixed-structure design optimized for store entrances and self-service interaction scenarios.

The device is equipped with an approximately 8-inch class touch display area and integrates a scan window, NFC sensing area, notification indicators, audio components, and multiple installation and connection interfaces within a compact structure, balancing display, interaction, and data capture capabilities in limited installation space.

Its industrial design is suitable for wall mounting, bracket mounting, or integration into dedicated terminal structures. While meeting functional requirements, the product also supports an intuitive front-facing interaction experience and a clean installed appearance.

Fast and Easy Data Capture

The Datalogic Smart Portal Entrance Unit integrates near-field barcode capture capability for applications such as entrance identification, price checking, and ticket validation.

The device supports 1D/2D barcode reading and provides visual feedback to help users quickly confirm successful scanning.

With the support of a ToF sensor, the device can enable auto-scan or presentation scanning modes, reducing manual operations and improving self-service efficiency. Through the combination of the front scan window and status indicators, the device delivers intuitive and stable data capture performance in fixed-use scenarios.

NFC-based Interaction

The device integrates an NFC reader/writer module that supports NFC tag reading, writing, and card-emulation-related capabilities for selected application scenarios.

The NFC area is located near the lower center of the display, making it convenient for you to tap cards or NFC-enabled devices during front-side interaction.

NFC can be used for user identification, access control, device configuration, membership recognition, or other project-defined near-field interaction scenarios. The actual scope of supported functions may vary depending on software version, customer applications, and project configuration.

Connectivity for Fixed Deployment

The Datalogic Smart Portal Entrance Unit supports multiple connectivity options to adapt to fixed-installation deployment environments.

The device can provide both network connection and power supply through Ethernet with PoE, or it can be powered through an external DC power adapter. It also provides

local interfaces and expansion capability to support installation, maintenance, and data interaction.

In actual deployment, the device can be connected to local networks, backend servers, or business systems to support data transmission, device management, and application integration.

Built for Self-service and Entrance Scenarios

The Datalogic Smart Portal Entrance Unit is primarily intended for the following scenarios:

- Store entrance identification and workflow triggering
- Self-shopping journey starting point
- Price checking terminal
- Ticket validation or self-service ticket collection terminal
- Fixed information query and business interaction terminal
- Membership identification, access control, and similar use cases.

This product emphasizes fixed deployment, front-facing interaction, fast reading capability, and stable network connectivity rather than handheld mobile operation. Therefore, its operating model, power architecture, and manual structure differ from those of traditional PDA-class devices.

Features

Main features of the Datalogic Smart Portal Entrance Unit include, but are not limited to:

- Fixed interactive terminal based on the Android platform
- 8.68-inch touchscreen display
- Capacitive multi-touch input
- Integrated near-field 1D/2D barcode reading capability
- Support for good-read visual feedback
- Support for ToF-based auto-scan triggering
- Integrated NFC reader/writer function
- Front camera support
- Dual speakers and microphones
- Ethernet connectivity with PoE support
- External DC power input
- MicroSD card expansion
- Suitable for fixed installation and long-term powered operation
- Support for coordination with customer applications and backend systems.

Industry - Applications

Retail

- Customer identification at store entrance
- Membership identification
- Self-shopping workflow trigger
- Product price checking
- In-store self-service information query

Ticketing / Self-service

- Self-service ticket validation
- Queue ticketing or service check-in
- Self-service entrance interaction

Access Control / Identification

- Identity recognition through barcode or NFC
- Access control assistance
- Triggering of specific business workflows

Kiosk Integration

- Fixed business entry terminal
- Front-end interaction terminal for system integration
- Smart in-store interaction node.

AVAILABLE MODELS

The Datalogic Smart Portal Entrance Unit is a fixed-installation entrance interaction terminal currently planned as a WLAN-only configuration device. The product is based on the Qualcomm 4490 platform and runs the Android operating system.

At product launch, the device is planned to ship with Android 15 and support future upgrades up to Android 18.

In different project deployments, software configurations, regional versions, or customer-specific requirements may result in differences in functionality or system configuration. Therefore, the descriptions in this manual represent a general product description, and the actual delivered configuration may vary depending on project requirements.

For specific product models, software versions, or configurations, please refer to the project documentation or product materials delivered with the device.

The Datalogic Smart Portal is available in different models depending on the features it is equipped with. All options are listed below:

- 912000001 SMART PORTAL, Entrance Unit/Price Checker, Wi-Fi6E, BT 5.3, 2D Imager w/Green Spot, Autoscan, Camera (5MP), 6GB/128GB, Qualcomm Octa Core, 2,4GHz, Android v15, NFC, PoE+ / Type 2, MicroSD, USB-C OTG, USB-C, USB-A, Power Port, Light grey
- 912000002 SMART PORTAL, Entrance Unit/Price Checker, Wi-Fi6E, BT 5.3, 2D Imager w/Green Spot, Autoscan, Camera (5MP), 6GB/128GB, Qualcomm Octa Core, 2,4GHz, Android v15, NFC, PoE+ / Type 2, MicroSD, USB-C OTG, USB-C, USB-A, Power Port, Black

For further details about the Datalogic Smart Portal models refer to the web site:

http://www.datalogic.com.

For further information regarding Android refer to the website:

www.android.com.

OUT OF THE BOX

The standard Datalogic Smart Portal package tipically includes:

- Datalogic Smart Portal Entrance Unit Device
- Equipment Fixing Screws
- Quick Start Guide
- Safety & Regulatory Addendum

Depending on the project configuration, some accessories, installation parts, or optional items may be supplied separately.

If the device is shipped together with a wall bracket, installation accessories, or other optional parts, please refer to the final packing list.

After receiving the device, perform the following checks:

1. Remove all components from the package.
2. Check the device for any visible damage.
3. Verify that all documentation and accessories are included.
4. Compare the contents with the packing list or project delivery list.
5. If any item is missing, damaged, or inconsistent with the documentation, contact the responsible party promptly.

CAUTION: Keep the original packaging materials. If the device needs to be transported, returned for repair, or sent to a technical assistance center, the original packaging is recommended to avoid additional transport damage. Damage caused by improper packaging is generally not covered under warranty.





ACCESSORIES

Power Supplies/Cords (Optional)

- 94ACC0466 USB A-C cable, black 1-meter USB 2.0
- 94ACC0467 USB C-C cable, black 1-meter USB 2.0
- 94ACC0468 PoE ethernet cable

Mounts/Stands

- 94ACC0464 Smart Portal wall bracket - on cabinets with empty space behind the bracket
- 94ACC0465 Smart Portal wall bracket with power supply support - on walls without any space behind the bracket

Accessories shared with Memor Family

- 94ACC0197 Power Supply, for Docks & Chargers Memor 11/10, MBC Memor K20-25 (power cord to be purchased separately)
- 95A051041 Power Cord, Europe
- 95ACC1113 Power Cord, NA
- 95ACC1212 Power Cord, Japan
- 95ACC1213 Power Cord, UK
- 95ACC1215 Power Cord, Australia

GENERAL VIEW

This chapter introduces the overall layout of the Datalogic Smart Portal Entrance Unit, the location of major components, and the basic function of each component.

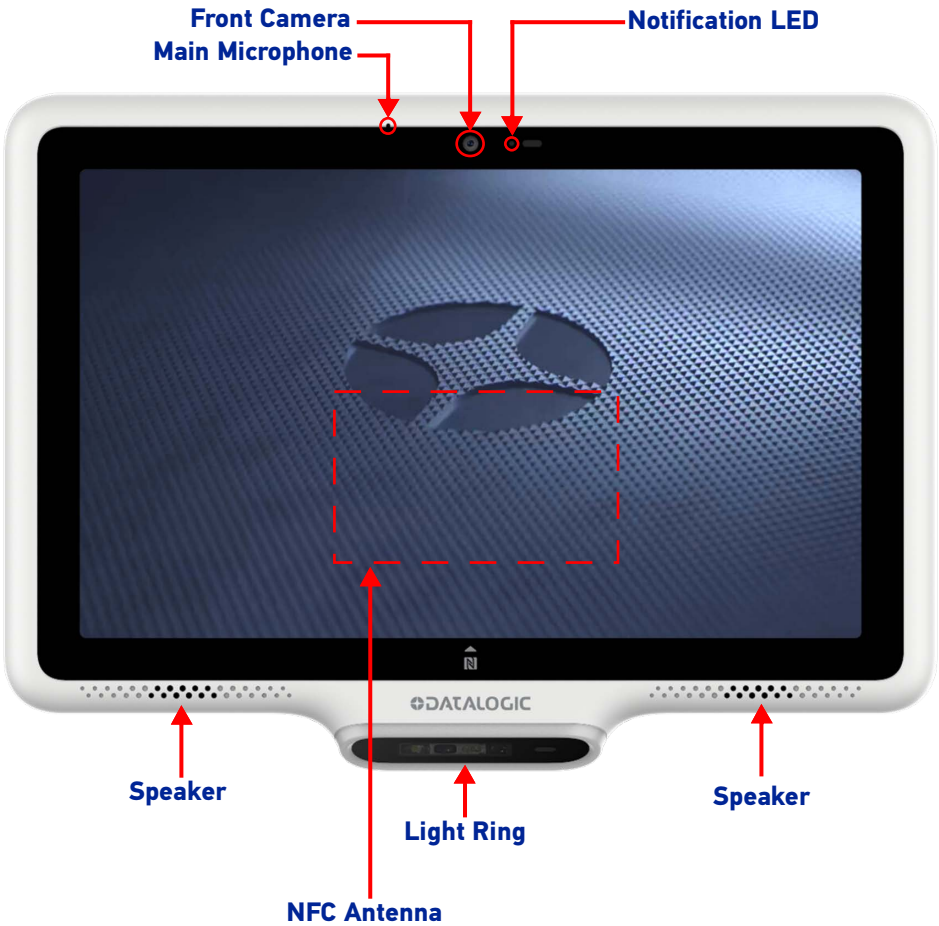
Through this chapter, you can quickly understand the device structure and identify key functional areas for installation, connection, and daily operation.

The main external views of the Datalogic Smart Portal Entrance Unit include:

- Front View
- Bottom View
- Back View
- Power and Cable Ports

The main interaction area is located on the front, including the touchscreen display, scan window, NFC area, and indicators. The rear area mainly contains the power port, network interface, expansion interfaces, and control buttons.

FRONT VIEW



The front side of the Datalogic Smart Portal Entrance Unit contains the main human-machine interaction area. You primarily interact with this side when scanning barcodes, tapping NFC cards, or operating the touchscreen.

Main front-side components are described below.

Touch Panel Display

The device is equipped with an 8.68-inch touchscreen display with WXGA 1340 × 800 resolution for displaying system interfaces, application content, and operational prompts. You can interact with the device by tapping menus, operating applications, and confirming information.

Front Camera

A front camera is integrated above the display for video interaction, image capture, or other front-facing imaging scenarios, depending on software and application configuration.

Main Microphone

A main microphone is integrated in the front area of the device and is used to capture voice input or ambient sound.

In application scenarios requiring voice interaction or audio capture, this microphone is used to receive audio signals.

Notification LED

A notification indicator is provided above the display area to show device status or system notifications.

Under different system conditions, the indicator may use different colors or blinking patterns to notify the user.

For example:

- System startup status
- System notifications
- Device status indications.

The exact behavior depends on the system software or application configuration.

Proximity Sensor

The device is equipped with a proximity sensor used to detect whether a user or object is approaching the device.

In some application scenarios, this sensor can be used to trigger the display, wake up the interface, or assist auto-scanning functions.

Speaker

A speaker is provided on the front side of the device for playing system prompts, voice prompts, video audio, or application sounds.

The speaker may also be used for scan success tones or system notification sounds.

NFC Antenna

An NFC antenna is integrated in the lower center area of the display.

When you bring an NFC card or an NFC-enabled mobile device close to this area, the device can read or recognize the corresponding information.

This area is usually marked with an NFC symbol to help you identify the sensing location.

Light Ring

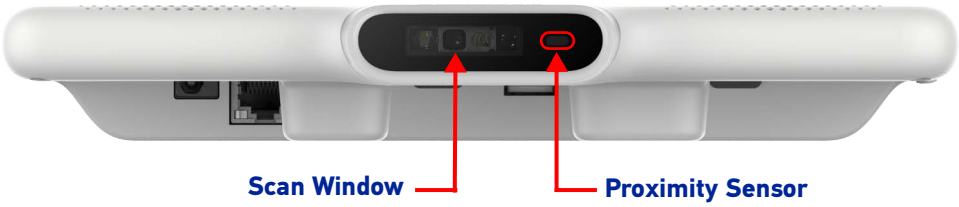
A light ring is integrated around the scan window to provide scanning feedback or device status feedback.

For example:

- Scan success indication
- Scan failure indication
- System status indication.

The light ring usually provides visual feedback through different colors or blinking behaviors.

BOTTOM VIEW



The bottom area of the device mainly contains the barcode scan window and the sensor used to assist scan triggering.

When using the scanning function, you need to place the barcode in front of this area.

Scan Window

The scan window is used to read barcode information.

The internal scan module captures barcode images through this window and decodes them.

When using the scanning function, please align the barcode or QR code with the scan window area and keep it within the readable range of the device.

To ensure good scanning performance, please note the following:

- Do not block the scan window
- Keep the scan window surface clean
- Avoid scratching or damaging the window surface.

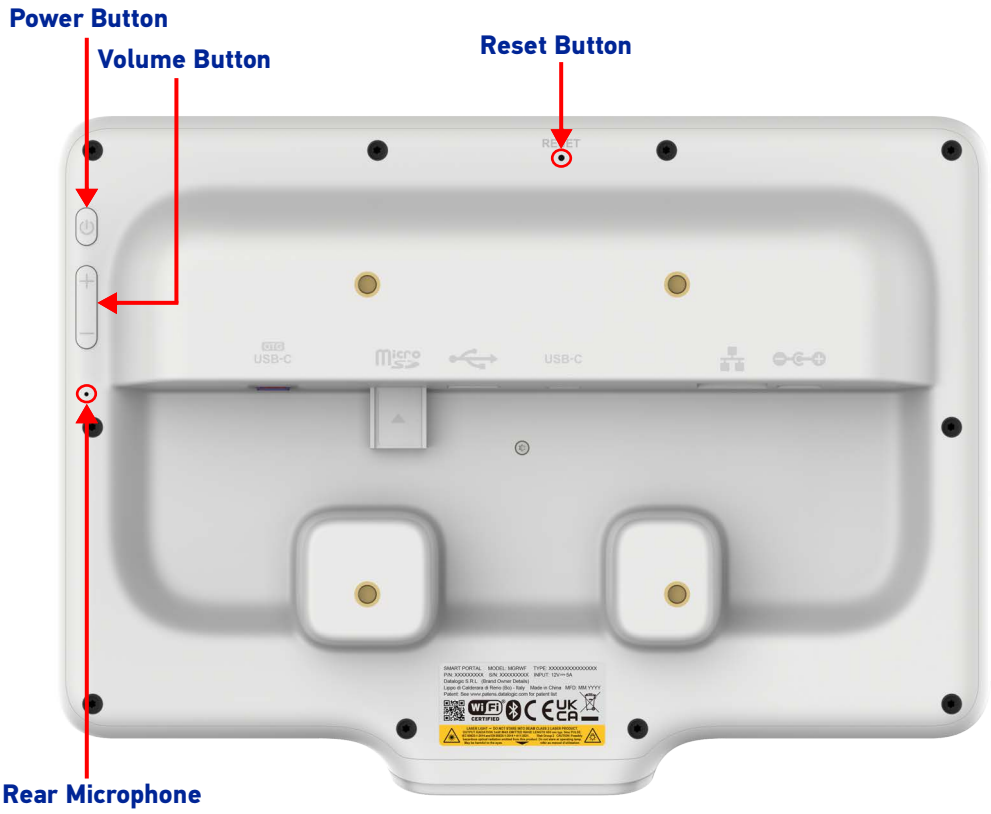
Proximity Sensor

The bottom area of the device is also equipped with a proximity sensor used to detect objects approaching the scan area.

When auto-scan mode is supported, this sensor can be used to trigger scanning.

The exact behavior depends on the system software or application configuration.

Back View



The back side of the device mainly contains device control buttons and some maintenance-related components.

These buttons are typically used for device control or maintenance operations.

Power Button

The power button is used to control device power on/off or wake up the device.

When the device is operating normally, pressing the power button may trigger the following actions:

- Wake up the device
- Display the power option menu
- Restart the device.

The exact behavior depends on the system configuration.

Volume Button

The volume button is used to adjust device volume.

Users can use this button to increase or decrease the audio volume.

Volume adjustment typically applies to:

- System prompt sounds
- Application sounds
- Video or audio playback.

Reset Button

A hidden Reset button is provided on the back of the device for performing a hardware reset.

The Reset button is usually located in a small pin-hole and needs to be pressed with a slim tool such as a paper clip.



CAUTION: The Reset button is intended mainly for maintenance or service operations. Frequent use during normal operation is not recommended.

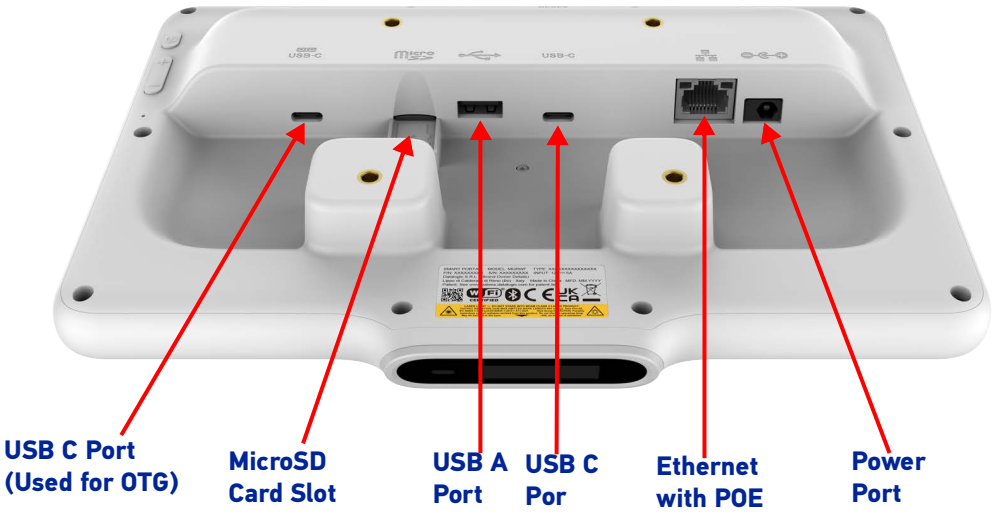
Rear Microphone

An auxiliary microphone is also provided on the back of the device for voice capture or ambient audio capture.

Together with the front microphone, it can improve audio pickup performance.

POWER AND CABLE PORTS

The Datalogic Smart Portal Entrance Unit provides multiple power and data interfaces on the back of the device for connecting power, network, or external devices.



The Datalogic Smart Portal Entrance Unit provides multiple types of interfaces to meet the requirements of power supply, network connectivity, and expansion in fixed installation environments.

The following describes the main interfaces.

USB-C Port (Used for OTG)

The USB-C OTG port can be used to connect external devices that support USB, such as:

- USB storage devices
- Debugging devices
- External data devices.

This interface supports USB OTG (On-The-Go) mode, allowing the device to exchange data with other USB devices.

In some deployment scenarios, this interface may also be used for device debugging or maintenance operations.

MicroSD Card Slot

The device provides a microSD card slot for expanding local storage.

By installing a microSD card, users can increase the data storage capacity of the device.

microSD cards may be used for:

- Local data storage
- Log storage
- Application data cache
- Other application data storage needs.

The supported storage capacity depends on the device configuration and system support.

For information about how to install a microSD card, please refer to the MicroSD Card chapter of this manual.

USB-A Port

The USB-A port can be used to connect standard USB peripherals.

Depending on the system configuration, this interface may be used for the following purposes:

- Connecting USB storage devices
- Connecting maintenance or debugging devices
- Connecting specific external hardware devices.

Whether end users are allowed to directly use this interface depends on the specific deployment method and project configuration.

USB-C Port

The device also provides an additional USB-C port for connecting compatible USB devices.

In some deployment environments, this interface may mainly be used for data transfer.

The specific usage is determined by the system configuration and project deployment plan.

Ethernet with PoE

The device provides an RJ45 network interface that supports Ethernet network connection.

This interface also supports Power over Ethernet (PoE) technology, allowing the device to obtain both network connectivity and power supply through the same Ethernet cable.

When using PoE power supply, it is necessary to connect the device to PoE-capable network equipment, such as:

- PoE switch with grounding
- PoE injector.

Using PoE can reduce additional power cable deployment and simplify the installation process. Use shielded network cable.

Power Port

The device provides a dedicated DC power input port for connecting an external power adapter.

When the device is powered by DC input, a power adapter that meets the device specifications must be used.

Normally, the power adapter should meet the following conditions:

- The input voltage range must match the local mains environment
- The output voltage must meet the device requirements
- The output power must be sufficient for device operation.



NOTE: IBoth the PoE power supply and the DC power supply can meet the operating requirements of the device. Do not use both power supply methods simultaneously. Which power method is actually used should be determined according to the project deployment plan.

FEATURES DESCRIPTION

This section describes the main hardware components of the device and their functions.

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	Sound pickup function.
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" on page 14.
Volume Button	Increase and decrease audio volume.
Speaker	Provides audio output for video and music playback. Provides audio in speaker-phone mode.
Proximity Sensor	Auto-scan trigger.

Reset Operation

The device provides a hidden Reset button for performing a hardware reset during system abnormalities or maintenance operations.

Press the Reset button with a slim tool such as a paper clip.



CAUTION: A Reset operation may interrupt the currently running application or task. Before performing a Reset operation, make sure the device is not currently in a critical business operation.

Indicators and Visual Feedback

The LEDs illuminate to indicate various functions or errors on the reader. The following tables list these indications.

The light ring around the scanning area of the device indicates scanning status feedback.

The notification LED on the top front of the device indicates power status and alerts you to new android notifications.

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

Scan Area

The scan window on the bottom side of the device is used for barcode reading.

To scan a barcode, place the barcode in front of the scan window and keep it within the readable range of the device.

To obtain the best scanning performance, please ensure the following:

- The barcode is positioned in the center of the scan area
- The barcode surface is clearly visible
- The scan window is kept clean.

MICROSD CARD

The Datalogic Smart Portal Entrance Unit provides a microSD card slot for expanding the local storage capacity of the device. By installing a microSD card, the device can store additional data such as log files, application data, or other local files.

NOTE: The microSD card slot supports SDXC storage cards, with a minimum supported capacity of up to 2 TB. It is recommended to use reliable, high-quality MicroSD cards to ensure stable operation.

CAUTION: Before installing or removing a microSD card, ensure that the device is not currently accessing the storage card to avoid data corruption.

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”.



CAUTION: When inserting the microSD card, ensure that the card orientation is correct.

Do not force the card into the slot, as this may damage the slot or the card.

The device supports microSD card hot plug. However, removing the card while data is being read or written may result in data loss.

Remove 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. Gently press the microSD card so that it pops out of the slot.
4. Carefully remove the microSD card.



CAUTION: Do not forcibly pull out the microSD card. Always press the card first to release it, and then remove it.

If the system or any application is reading or writing data on the microSD card, removing the card directly may cause data corruption.

MicroSD Usage Notes

To ensure proper operation of both the device and the storage card, follow the recommendations below:

1. Use reliable, high-quality microSD cards.
2. Do not remove the storage card while data is being read or written.
3. Avoid applying excessive force when inserting or removing the microSD card.
4. If the microSD card is not recognized, check whether the card is inserted in the correct orientation.
5. If the problem persists, try using another storage card for testing.

After installing the microSD card, the device can use the expanded storage capacity.

In some application scenarios, applications may use the microSD card to store logs or business data.

GETTING STARTED

This chapter describes the basic startup process and fundamental operation methods of the Datalogic Smart Portal Entrance Unit.

Before using the device for the first time, ensure that the device is properly connected to power and network, and that installation has been completed according to the required specifications.

The Datalogic Smart Portal Entrance Unit is designed for fixed deployment and typically operates with continuous external power supply.

After powering on, the device automatically loads the operating system and enters the application interface.

This chapter includes the following sections:

- Installation Requirements
- Power on the Device
- Basic Operations
- Reset the Device.

INSTALLATION REQUIREMENTS

Installation Height

Mount the device housing so that its geometric centerline sits approximately 950 mm above the floor. This specific height ensures that the highest virtual operation buttons on the screen do not exceed the 1100 mm upper limit. Additionally, this positioning guarantees that the bottom barcode scan window remains at or above the minimum required height of 800 mm.

Clear Floor Space

Provide a flat, unobstructed clearance area measuring at least 800 mm × 1300 mm directly in front of the device or along the side access point. Maintaining this open perimeter is mandatory to allow sufficient space for wheelchair passage and parking.

Anti-Glare and Line of Sight

Install the device using wall or desktop mounts that feature an upward tilt adjustment between 15° and 25°. This adjustable angling accommodates users with lower sightlines to ensure full visual accessibility. Finally, select a mounting location that avoids direct reflection from overhead lighting to eliminate screen glare.

POWER ON THE DEVICE

NOTE: Ensure the device remains connected to an external power source during use, as it does not have an internal battery.

The Datalogic Smart Portal Entrance Unit can be powered via:

- Power over Ethernet (PoE)
- External DC power adapter.

Once connected to either power source, the device will automatically turn on.

Power On Via PoE

1. Ensure that the network equipment supports IEEE 802.3at (PoE+) standard.
2. Connect one end of a standard Ethernet cable to the RJ45 port of the device.
3. Connect the other end of the Ethernet cable to an Ethernet switch with grounding or injector.
4. The device will automatically power on once the connection is established.



Power On via DC Power

1. Verify that the power adapter matches the device’s required power specifications.
2. Insert the adapter plug into the device’s DC power port.
3. Connect the power adapter to a standard electrical outlet.
4. The device will automatically initiate the system boot process.





NOTE: The device automatically starts when connected to a valid power source. It is not necessary to connect both PoE power supply and DC power supply at the same time; only one power supply mode is required.

System Boot Process

Once power is connected, the device automatically initiates the following startup sequence:

1. Hardware Initialization: the system identifies and tests all internal hardware components.
2. Operating System Startup: the system bootloader loads the core operating system into memory.
3. System Services Loading: essential background services and drivers are started.
4. Application Startup: the primary device software begins to execute.
5. Interface Ready: the device enters the main user interface or application screen.



NOTE: Startup time may vary based on the software version and system configuration.

BASIC OPERATIONS

Following system startup, the device is operated via the touchscreen interface.

The device supports five primary interaction modes:

- Touch: Use gestures to control the screen.
- TalkBack: Screen Reader.
- Barcode Scanning: Scan items for data entry.
- NFC Interaction: Connect with nearby devices or tags.
- Audio Feedback: Listen for system alerts and sounds.

Touchscreen Interface

The system is equipped with a capacitive touchscreen for intuitive user interaction. You may perform the following tasks directly on the display:

- Tap buttons and icons
- Navigate menus
- Browse information
- Input data

Integrated multi-touch support enables advanced interactions like pinching and zooming.

Accessibility Features (TalkBack Screen Reader)

TalkBack is Google's built-in screen reader that provides spoken feedback to help blind and low-vision users navigate their device. When active, the device will describe everything you touch, select, or activate on the screen.

How to Enable:

1. Go to **Settings** > **Accessibility**.
2. Tap **TalkBack** and toggle the switch to **On**.
3. Review the permissions and tap **Allow**.
4. Confirm any prompts to temporarily disable conflicting features.

Barcode Scanning

Use the scan window located at the bottom of the device to capture data. To read a barcode, position it in front of the scan window. The system confirms successful reads via audio or visual alerts.

Refer to "Data Capture" on page 28 for more details.

NFC Operation

The NFC antenna is located on the front of the device. To interact, hold an NFC card or enabled device near the designated area.

NFC is mainly used for:

- User Identification: Log in or authenticate.
- Device Configuration: Sync settings or setup.
- Business Transactions: Complete specific tasks or payments.

Refer to "Near Field Communication (NFC)" on page 26 section for further details.

Audio Feedback

The built-in speaker provides system and application audio. Use the physical Volume buttons on the device to adjust the sound level.

Common Audio Cues:

- Scan Confirmation: Tones for successful barcodes.
- System Notifications: Alerts and status updates.
- App Prompts: Voice or tone-based instructions.

RESET THE DEVICE

In the event of system abnormalities or unresponsiveness, perform a hardware reset using the integrated Reset button. The button is recessed/hidden to prevent accidental activation.

Reset Procedure

1. Locate the recessed Reset button on the back of the device.
2. Insert a slim tool (such as a paper clip) into the reset hole.
3. Press and hold the button for a few seconds, then release.
4. The device will automatically restart.



CAUTION: Performing a reset will interrupt any active applications or tasks. To prevent data loss, ensure the device is not performing a critical business operation before proceeding.

NOTE: The Reset function is mainly intended for maintenance or recovery purposes. Frequent use during normal operation is not recommended.

NEAR FIELD COMMUNICATION (NFC)

NFC technology allows short-range, wireless data transfer between the device and NFC tags or other NFC enabled devices placed in close proximity to the back of the device.

The NFC module of the Datalogic Smart Portal Entrance Unit supports reading NFC tags and interacting with system applications.

When an NFC card, tag, or other NFC-enabled device approaches the NFC sensing area of the Datalogic Smart Portal Entrance Unit, the device can read the data or trigger operations.

NFC Sensing Area

The NFC antenna is located in the lower center area of the front display.

When using NFC functionality, place the NFC card or device close to this area.



Use NFC

1. Ensure that the device is powered on and operating normally.
2. Place the NFC card or the NFC-enabled device near the NFC sensing area.
3. Hold the card or the device close to the sensing area for a few seconds.
4. After reading the NFC data, the device will perform the corresponding operation based on the application logic.

NFC Usage Tips

To achieve optimal reading performance, follow these recommendations:

- Keep the NFC card as close as possible to the sensing area.
- Avoid placing metal objects between the card and the device.
- Hold the card steady for a few seconds to ensure successful reading.

Typical Use Cases

Depending on the system configuration, NFC can be used in the following scenarios:

- User identification
- Membership card recognition
- Device configuration or initialization
- Access control systems
- Business workflow triggering

The actual functionality depends on the device software configuration and application system.



NOTE: Whether NFC functionality is enabled and how it is used depends on the device software version and project configuration.



CAUTION: Avoid placing magnetic objects or devices that may interfere with wireless communication near the NFC sensing area.

DATA CAPTURE

The Datalogic Smart Portal Entrance Unit integrates a professional barcode scanning module for near-field barcode reading applications.

The device features the Datalogic HALOGEN™ DE2121-DL scanning engine, capable of efficiently reading a wide range of 1D and 2D barcodes.

Through the built-in scanning module, the device can quickly capture barcode data in fixed deployment environments and transmit it to applications or backend systems.

In retail, self-service, or ticketing scenarios, barcode scanning is typically used for:

- Product identification
- Price checking
- Ticket or voucher validation
- Customer identification
- Self-service workflow triggering.

The device captures barcode images through the scan window and decodes the data using the internal decoding module.

GOOD READ FEEDBACK

The scanning module reads barcodes through the front scan window and provides feedback through visual or audio indicators.

Typical feedback includes:

- Green blinking: barcode read successfully
- Red blinking: barcode read failed or not recognized.



Scan Failed Scan Successful

In addition to visual feedback, the device may also provide audio feedback, such as:

- Beep sound for successful scan

The specific feedback behavior depends on system configuration or application settings.

AUTO-SCAN AND TOF TRIGGERING

The Datalogic Smart Portal Entrance Unit supports automatic scan triggering.

The device uses a ToF (Time-of-Flight) sensor to detect objects approaching the scan area and automatically trigger the scanning process.

In auto-scan mode, the device triggers automatically when you bring a barcode or object near the scan window.

This feature is suitable for:

- Self-service scanning scenarios
- Store entrance scanning
- Presentation scanning devices.

Automatic scanning improves user experience and reduces operational steps.

NOTE: Auto-scan behavior depends on your specific application or system settings. In some setups, it may be disabled or controlled by your software.

USE THE SCANNER

To scan a barcode symbol:

1. Ensure that the device is powered on and the application is running
2. Place the barcode or QR code in front of the scan window
3. Align the barcode with the center of the scan area
4. Hold the barcode steady until the device recognizes it.
5. If the scan is successful, the device will provide visual or audio feedback.



Tips for Better Scanning Performance

To achieve optimal scanning performance, follow these recommendations:

- Ensure the barcode is clearly visible
- Keep the scan window clean and free of dust or dirt

- Position the barcode at the center of the scan area
- Maintain an appropriate scanning distance
- Avoid strong reflections or direct light interference.

Barcode Types

The device supports multiple common barcode formats, including but not limited to:

SYMBOLOGIES TYPE	SYMBOLOGIES NAME
1D/ Linear Codes	Auto discriminates all standard 1 D codes including GS1 DataBar™ linear codes.
2D Codes	Aztec Code; Data Matrix; MaxiCode; Micro QR Code; QR Code; HanXin Code; Dotcode.
Postal Code	Australian Post; Japanese; Post; KIX Post; Royal Mail (RM4SCC); USPS Intelligent Mail; USPS PLANET; USPS Postnet; USPS FICS.
Stacked Codes	GS1 Composite Codes UPC/EAN/JAN Composites; GS1 DataBar Composites and GS1-128 Composite; PDF417; Micro PDF417; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional.

Scanning Precautions

To ensure long-term stable operation of the device, follow these guidelines:

- Do not use sharp objects to touch the scan window
- Keep the scan window clean
- Avoid applying excessive force or impact to the scan area.



CAUTION: If the scan window is severely scratched or contaminated, scanning performance may be affected.

CONNECTIONS

The Datalogic Smart Portal Entrance Unit offers several connection options to fit your specific network and device needs.

The device can connect to backend systems through wired network and supports power supply via PoE or DC input.

This chapter describes the main connection methods of the device, including:

- Power connection
- Ethernet connection
- USB connection
- Wireless connectivity.

Before performing any connection, ensure that the device is in a safe state and that cabling has been completed according to installation requirements.

POWER CONNECTION

The Datalogic Smart Portal Entrance Unit requires a continuous external power source, as it has no internal battery.

The device supports the following power supply methods:

- Ethernet with PoE
- External DC power adapter.

Choose the power method that best fits your installation environment.

Use the DC Power Supply

To use an external power adapter, follow these steps:

1. Confirm the adapter matches the device's power specifications
2. Plug the adapter into the device’s power port
3. Connect the adapter to a power outlet
4. The device will turn on automatically once it receives power.



CAUTION: Use only power adapters that match the device specifications. Using an incorrect power source may damage the device.

ETHERNET CONNECTION WITH POE

The device features an RJ45 Ethernet port for local network connection. This port supports Power over Ethernet (PoE), providing both data and power through a single cable.

Use PoE for Power and Network

To connect the device to a PoE network, follow these steps:

1. Ensure you have PoE-capable equipment ready, such as a PoE switch or PoE injector. The device must meet grounding requirements.
2. Connect one end of an Ethernet cable to the device's RJ45 port
3. Plug the other end of the cable into your PoE network equipment
4. The device will automatically receive both power and network connectivity through the single cable.



NOTE: Using PoE simplifies installation by removing the need for extra power cables, making it ideal for fixed setups.

USB CONNECTION

The Datalogic Smart Portal Entrance Unit includes several USB ports for connecting peripherals, performing maintenance, or transferring data.

The device includes the following USB ports:

- 1 × USB-C 2.0 port (supports OTG)
- 1 × USB-C 2.0 port (host mode only)
- 1 × USB 2.0 Type-A port.

These ports can be used for:

- Connecting USB storage devices
- Device maintenance or debugging
- Data transfer
- Integration with specific external hardware devices.



NOTE: In some setups, the USB ports may be intended primarily for maintenance or debugging.

NOTE: When the device is connected to a PC through the OTG type-C port for debugging (ADB) or file transfer, it automatically switches to Device Mode.

As a result, the Ethernet port and the two standard USB ports (type-C and type-A) - which are only available in Host Mode - will temporarily stop functioning.

Disconnect the PC to restore normal Host Mode functionality.

WIRELESS CONNECTIVITY.

The Datalogic Smart Portal Entrance Unit features built-in wireless capabilities to connect with backend systems and application servers.

Wireless connectivity is typically used for:

- System communication
- Application data transmission
- Device management.

The device supports common wireless technologies, such as:

- Wi-Fi
- Bluetooth.



NOTE: Available wireless features may vary depending on your device's specific configuration and software version.

Wi-Fi

Wi-Fi connects the device to a wireless local area network for access to backend systems or internet services. You can typically configure Wi-Fi through the system settings interface.

Bluetooth

Bluetooth allows the device to communicate with other Bluetooth-enabled devices over short distances. Depending on your software configuration, you can use Bluetooth to:

- Connect external devices
- Exchange data
- Run specific application functions.

TECHNICAL FEATURES



NOTE: Specifications may vary depending on project configuration or software version.

TECHNICAL DATA

ITEM	DESCRIPTION
PHYSICAL CHARACTERISTICS	
Dimensions	227 mm x 164,5 mm x 32 mm / 8.93 in. x 6.47 in. x 1.26 in
Weight	638g/ 22.5 oz
Display	8,6 inch color HD (1340x800); 16:10; 450 NITS
Keys	Physical Keys: 1 power ON/OFF, volume physical keys (up/down), Reset button
Touch Panel	Touch Screen: 5 points multi-touch capacitive panel and optical bonding; Support for gloves and stylus; water drops rejection and antifingerprint surface finishing
LED	Light guide LED around scan engine for good read feedback; LED backlight
ELECTRICAL	
Power	PoE power source that supports EEE 802.3at (PoE+/Type 2); DC port with Power Supply
SENSORS	
ToF	Time of Flight
AUDIO	
Microphones	2x mic
Loudspeaker	2x speakers 1.3W (1.5W short term) and 90dBA
Receiver	Headset through BT

ITEM	DESCRIPTION
ENVIRONMENTAL	

ITEM	DESCRIPTION
Chemical Resistance	General purpose chemical cleansers: Chemical agents against which the device is resistant; Sopropyl alcohol 70% (IPA) / Alcohol Wipes 70% Glassex with ammonia / Formula 409® Glass and Surface Cleaner Glassex with ammonia / Windex® Water solution of Sodium Hypochlorite 0,8% / Clorox® Bleach Ethyl alcohol 70% Hydrogen peroxide 3%
Temperature	Operating: 0 to 40 °C / 32 to 104 °F Storage/Transport: -30 to 70 °C / -22 to 158 °F
Sealing	IP42
Humidity	5% to 95% non-condensing, across the operating temperature range
ESD	15kV air discharge / 8kV contact discharge
INTERFACES	
Interfaces	USB host: 1 USB-C and 1 USB-A ports (both USB 2.0) for accessory USB OTG: 1 USB-C OTG Ethernet Gigabit compatible: RJ45
SYSTEM	
Memory	6 GB RAM / 128 GB Flash Storage
Microprocessor	Qualcomm QCx4490 Octa-core 2.4 GHz
Expansion Slots	1 MicroSD card (up to 2 TB)
Operating System	Android 15, upgradeable to Android 18
Real-Time Clock	Time and date stamping under software control
WIRELESS COMMUNICATIONS	
Local Area Network (WLAN)	Local Area Network (WLAN) Wi-Fi 6e IEEE 802.11 a/b/g/n/ac/ax and 802.11 d/e/h/i/k/r/v/w/mc; Frequency range: Country dependent, typically 2.4 GHz, 5GHz and 6 GHz bands; 2x2 MIMO; WPA3 Enterprise 192-bit mode supported
Personal Area Network (WPAN)	Bluetooth wireless technology v5.3 (Classic Bluetooth wireless technology and BLE)
NFC Communication	Support for the following standards: Tag types 2/3/4/5 (ISO14443-4 A/B; ISO15693; Mifare; Felica)

ITEM	DESCRIPTION
READING PERFORMANCE	
Camera	Front Camera: Resolution: 5 megapixel
Scan Engine	Halogen™ DE2121-DL 1D/2D scan engine; Datalogic's 'Green Spot' for good-read feedback;
SOFTWARE	
Datalogic Mobility Suite - Discover more on: datalogic.github.io	
Protection	Shield - Android Security Updates Launcher – to lockdown device to kiosk mode Enterprise Browser - for secure browsing Integrity KIT - to safeguard HW interfaces
Configuration	Scan2Deploy - configure, stage and enroll device OEMConfig - for UEM/EMM compatibility AE QR Generator - for easy EMM/UEM enrollment Wi-Fi QR Generator – Enroll device with Wi-Fi network
Development	SDKs (Java, Kotlin, Xamarin, .NET, MAUI, JavaScript) Visual Formatter – visually code flow for barcode formatting Wedge - configurable barcode scanning input methods
Optimization	Logger - collect advanced device events log Wi-Fi Guard - collect Wi-Fi data and statistics Snap OCR - digitizes text, streamlining data entry label parsing
Empower	SoftSpot - draggable touch scanner trigger QuickBoard – customizable on-screen virtual keyboard
Additional Features	
Provisioning	Android Zero-Touch, Android Enterprise QR Code, EMM Token, DPC Identifier enrollment
UEM/EMM	SOTI MobiControl, VMWare Workspace One, Microsoft Intune, 42Gears Sure MDM, Ivanti Neurons, Ivanti and any OEM Config compliant UEM/EMM, Terminal Emulator and PTT; Compatibility Highlight Ivanti Velocity, StayLinked Smart TE, Zello PTT
SAFETY & REGULATORY	
Agency Approvals	The product meets necessary safety and regulatory approvals for its intended use
Enviromental Compliance	Complies to EU RoHS
WARRANTY	
Warranty	1-Year Factory Warranty

Display

The device is equipped with an 8-inch capacitive touch display that serves as the primary interface for system data and user interaction. The touch-sensitive panel supports precise capacitive input for all on-screen operations.

NFC

The device includes a built-in NFC (Near-Field Communication) module. This allows you to interact with NFC tags or other compatible devices simply by bringing them close together.

Common Uses:

- User Identification
- Device Configuration
- Access Control
- Business workflow triggering

Network Connectivity

The device features a high-speed wired Ethernet connection for reliable data exchange. When connected to a network, the device can:

- Communicate with backend servers
- Upload or download data
- Integrate with other systems

The device also supports PoE (Power over Ethernet). This allows you to provide both power and data through a single Ethernet cable (requires a PoE switch).

Interfaces

The device features multiple connection ports for integrating external peripherals and performing system maintenance.

Main interfaces include:

- USB-A port
- USB-C port
- USB-C OTG port
- RJ45 Ethernet port
- MicroSD card slot
- DC-IN power port

These interfaces support device expansion, maintenance, and data transfer (for more details see "Power and Cable Ports" on page 14).

MAINTENANCE

To ensure long-term stable operation of the Datalogic Smart Portal Entrance Unit, it is recommended to perform appropriate routine maintenance.

The device is typically installed in a fixed environment and does not require frequent maintenance under normal operating conditions. However, in high-usage or complex environments, regular inspection and cleaning can help maintain performance and extend the device lifetime.

This chapter describes basic maintenance methods, including device cleaning and general usage precautions.

CLEANING THE DEVICE HOUSING

Use a soft, clean, dry cloth to remove dust or stains from the surface. If stains remain, slightly dampen the cloth with water and gently wipe the affected area. Ensure the device is completely dry before returning it to service.

CLEANING THE TOUCHSCREEN

The touchscreen is the primary interface for your device and should be kept clean to ensure optimal responsiveness. Follow these recommendations for safe cleaning:

- Gently wipe the surface with a soft, lint-free cloth to remove fingerprints and dust.
- For stubborn smudges, slightly dampen the cloth with water before wiping. Never spray liquids directly onto the screen.
- Avoid corrosive cleaning agents, harsh chemicals, or abrasive materials that could damage the screen's protective coating.

CLEANING THE SCAN WINDOW

To ensure fast and accurate barcode reading, keep the scan window free of dust and smudges.

When cleaning the scan window:

- Use a soft, lint-free cloth to clean the surface.
- If needed, apply a small amount of alcohol to the cloth to remove stubborn marks.
- Ensure the window is completely dry before scanning.



NOTE:

- **Do not use sharp objects on the scan window.**
- **Avoid applying excessive force when cleaning.**
- **Severe scratches on the scan window may affect scanning performance.**

CLEANING DEVICE INTERFACES

Device interfaces (such as USB ports, RJ45 Ethernet port, and power port) should be kept clean and dry.

When cleaning interfaces:

- Do not spray liquid directly into the ports.
- Prevent dust or debris from entering the connectors.

- Do not use metal tools to clean the interfaces.

GENERAL CARE

To ensure long-term stable operation of the device, follow the recommendations below.

Keep the Device Clean

Perform regular cleaning of the housing, touchscreen, and scan window. Removing dust and debris ensures optimal touch responsiveness and scanning accuracy.

Avoid Physical Impact

Install the device in a stable location and avoid exposure to impact, drops, or strong vibration.

Handle the device carefully during installation or relocation.

Environmental Operating Conditions

To ensure reliable operation and prevent hardware damage, always operate the device within its specified environmental limits. Avoid exposing the unit to:

- High temperatures
- High humidity
- Strong vibration
- Dusty environments.

Safe Cable Connection

To prevent electrical damage and ensure a reliable connection, follow these guidelines when handling cables:

- **Handle with Care**: Always connect and disconnect cables gently to avoid damaging internal pins.
- **Do Not Force**: If a connector does not fit easily, check its orientation rather than applying excessive force.
- **Inspect Regularly**: Only use cables in good condition. Never use frayed, bent, or otherwise damaged cables.
- **Keep Interfaces Dry**: Ensure both the cable plug and the device port are completely dry before connection to avoid short circuits or electric shock.

Periodic Device Checks

Regularly inspect the device to ensure ongoing stability and performance. We recommend checking the following items:

- Power connection stability
- Network connection status
- Physical condition of the device
- Cleanliness of the scan window

If any abnormal condition is detected, contact technical support for inspection.



NOTE: Internal components of the device are not intended to be serviced by users. If repair or replacement is required, contact authorized technical support personnel. Any tampering will invalidate the warranty.

SAFETY AND REGULATORY INFORMATION

This chapter provides essential safety information and regulatory guidelines for the Datalogic Smart Portal Entrance Unit.

Before installing, operating, or maintaining the device, carefully read and understand the contents of this chapter.

Following these safety instructions helps prevent device damage and reduces potential risks during operation.

If the device is used in a manner not specified in this manual, the protection provided by the device may be impaired.



NOTE: Read carefully this manual before performing any type of connection to the Datalogic Smart Portal Entrance Unit.

The user is responsible for any damage caused by incorrect use of the equipment or by inobservance of the indication supplied in the user manual.

GENERAL SAFETY RULES

Proper Installation

Install the device according to the installation instructions and ensure that the mounting position is stable and secure.

Ensure that:

- The device is mounted on a solid and reliable structure
- The installation location can support the weight of the device
- Adequate ventilation space is available around the device
- No objects are placed near the device that may affect its operation.

Use of Appropriate Power Supply

The device must be powered using a power source that meets the product specifications.

Ensure that:

- A compliant power adapter is used, or
- A PoE network device compliant with IEEE 802.3at (PoE+) is used, and comply with grounding requirements
- Power connections are stable and reliable.

Using a non-compliant power source may result in device damage.

Avoid Moisture Exposure

The device must not be exposed to moisture or liquid environments.

Avoid:

- Placing the device in humid environments
- Allowing liquids to enter the device
- Placing containers filled with liquid near the device.

If the device comes into contact with liquid, immediately disconnect the power and contact technical support.

Avoid Extreme Environmental Conditions

Operate the device within the specified environmental conditions.

Avoid exposing the device to:

- Extremely high temperatures
- Extremely low temperatures
- High humidity
- Strong vibration

Operating the device in harsh environments may affect performance or reduce device lifespan.

Avoid Physical Impact

Prevent the device from being subjected to drops, impacts, or strong vibrations.

Handle the device carefully during installation or relocation.

If the device housing or structural components are visibly damaged, stop using the device and contact the technical support.

Do Not Disassemble the Device

The device contains no user-serviceable internal components.

Do not:

- Disassemble the device
- Attempt to repair internal components
- Modify the device structure.

If repair is required, contact authorized technical support personnel.

Cleaning Precautions

Before cleaning the device, ensure that it is powered off.

When cleaning:

- Use a soft cloth to wipe the device surface.
- Do not use corrosive cleaning agents.
- Do not spray liquids directly onto the device.



WARNING: Improper installation or operation may result in device damage or safety risks. Always follow the instructions provided in this manual.

TECHNICAL SUPPORT

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.

Information to Prepare Before Contacting Support

When contacting technical support, it is recommended to prepare the following information:

- Product model
- Software version
- Description of the issue
- Device serial number.

Providing this information will help the support team diagnose and resolve the issue more efficiently.

Reseller Technical Support

An excellent source for technical assistance and information is an authorized Datalogic reseller. A reseller is acquainted with specific types of businesses, application software, and computer systems and can provide individualized assistance.

WARRANTY TERMS AND CONDITIONS

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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Conditions Not Covered by Warranty

The following conditions are typically not covered under warranty:

- Damage caused by improper installation or misuse
- Failures caused by accidents or intentional damage
- Unauthorized repair or modification
- Damage caused by environmental factors

If the device requires repair or replacement, please contact an authorized service center or technical support team.

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