Memor™ 12/17 Family

USER'S MANUAL

Rugged Mobile Computer/
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

"PDA", "mobile computer", "device", “Memor 12/17” refer a Memor 12/17 family device. "Dock" refer to a Memor 12/17 family device dock.

The label artworks may be only a draft. Refer to the product labels for more precise information.

PRODUCT OVERVIEW

Slim and Robust

The Memor 12-17 is our thinnest ever device, ergonomically designed to be comfortable in the hands of front-line workers for full-time daily use, thanks to its firm grip and light weight. Built for durability, it withstands everyday wear, meeting MIL-STD 810H standards for drop and tumbles. Additionally, a Corning™ Gorilla™ Glass 7 display provides enhanced protection against scratches and drops.

Fast and Easy Scanning for every Type of Environment

Featuring the latest Datalogic Halogen 2121DL scan engine with our Green Spot and advanced DeepSight™ decoding technology, the Memor 12-17 simplifies scanning barcodes at high speeds and variable lighting conditions, even when they are damaged or dirty. With GS1 Digital Link–readiness, it is also the perfectly equipped solution for the latest retail revolution in barcode innovation.

Productivity and Connectivity Redefined

The Memor 12-17 has been designed to support workers throughout their busy day, enabling seamless multitasking on a device they need to continuously rely on. Our unique Swap memory implementation enables customers to run multiple applications faster thanks to additional virtual RAM. Powered by the latest Qualcomm QC4490 platform, users can enjoy the best connectivity indoors and outdoors with WiFi6E and 5G, as well as the fastest GPS locking system.

Charging and Paying has never been so Easy

Customize your charging experience to suit your working day – with Memor 12-17. Customers can choose how they charge their devices, from a fast USB-C cable for quick top-ups to a stable wired charging cradles for enterprise grade charging and data communication, or the convenience of Wireless charging cradles for contactless, carefree and frictionless operations. If your business requires an easy payment acceptance solution then Memor 12-17 is the perfect choice thanks to Multi-Side NFC reading technology.

Maximize your Investment with Memor 12-17

With support up to Android 18, customer will enjoy an industry-leading 4+4 years of comprehensive hardware and software support, with continuous updates and access to cutting-edge tools from our Datalogic Mobility Suite. Additionally, the Memor 12-17 demonstrates a commitment to sustainability through eco-friendly accessories and packaging.

Features

- Fast and easy scanning for every type of environment: Datalogic Halogen™ DE2121-DL scan engine + Green Spot
- Native integrated wireless charging system: wireless charging battery together with dedicated wireless charging docks facilitate daily cleaning operations and asset maintenance, reducing TCO
- Ultra-reliable swappable long lasting battery with SafeSwap™ capability and Smart Battery Management
- Superior connectivity and processing power: Wi-Fi 6/6E, Bluetooth 5.3, 5G + Qualcomm 4490 platform
- Rugged and high-quality display: 6’’ inch capacitive multi-touch, FHD+ display, GG7
- Highest longevity in the entry-level tier: Android v13 & v15 GMS options (Platform upgradeable to Android 18)
- High reliability and water protection: IP65 and IP68 with battery, per IEC60529 specification, multiple 1.5/6ft drops to concrete over operating temperature with rubber boot, 1m/3.2 ft tumbles at room temperature with rubber boot.

Industry - Applications

- Healthcare: Patient admittance, patient bed care, electronic Medical Records, Laboratory management
- Retail: In-store operations, POS&Queue-Busting, Price checks, Assisted sales, Product Information, Gift registry, Loyalty Lookup, Shelf replenishment
- T&L: Access Control Ticketing, Last mile delivery, Proof of delivery, Baggage reconciliation, Postal services.

AVAILABLE MODELS

The Memor 12/17 is available in different models depending on the features it is equipped with. All options are listed below:

- 944950001 Memor 12 Full Touch PDA, std range 2D Imager w/Green Spot feedback, Camera (13MP), front camera (8MP), Wi-Fi6E, 6GB/64GB, Qualcomm Octa Core, 2,4GHz, Android v13, NFC, PTT, IP 65, IP67, Black Color, includes Google Mobile Services, battery 4000 mAh
- 944950002 Memor 12 Full Touch PDA, China Only, std range 2D Imager w/Green Spot feedback, Camera (13MP), front camera (8MP), Wi-Fi6E, 6GB/64GB, Qualcomm Octa Core, 2,4GHz, Android v13, NFC, PTT, IP 65, IP67, Black Color, battery 4000 mAh
- 944950003 Memor 17 Full Touch PDA, std range 2D Imager w/Green Spot feedback, Camera (13MP), front camera (8MP), Wi-Fi6E+5G, 6GB/64GB, Qualcomm Octa Core, 2,4GHz, Android v13, NFC, PTT, IP 65, IP67, Black Color, includes Google Mobile Services, battery 4000 mAh
- 944950004 Memor 17 Full Touch PDA, China Only, std range 2D Imager w/Green Spot feedback, Camera (13MP), front camera (8MP), Wi-Fi6E+5G, 6GB/64GB, Qualcomm Octa Core, 2,4GHz, Android v13, NFC, PTT, IP 65, IP67, Black Color, battery 4000 mAh
- 944950006 Memor 17 HC mobile computer, 6’’ FHD Touch display, std range 2D Imager w/Green Spot feedback, Rear/front Camera (13/8MP), Wi-Fi6E+5G, 6GB/64GB, QLC Octa Core 2,4GHz, Android 13 GMS, NFC, PTT, protection IP65, IP68, White Color, wlc battery 4000 mAh
- 944950008 Memor 12 mobile computer – Turkey Only, 6’’ FHD Touch display, std range 2D Imager w/Green Spot feedback, Rear/front Camera (13/8MP), Wi-Fi6E, 6GB/64GB, QLC Octa Core 2,4GHz, Android 13 GMS, NFC,PTT, protection IP65, IP68, Black Color,wlc battery 4000 mAh
- 944950014 Memor 17 mobile computer, 6’’ FHD Touch display, std range 2D Imager w/Green Spot feedback, Rear/front Camera (13/8MP), Wi-Fi6E+5G, 6GB/128GB, QLC Octa Core 2,4GHz, Android 13 GMS, NFC, PTT, protection IP65, IP68, Black Color, wlc battery 4000 mAh
- 944950019 Memor 17 Full Touch PDA, std range 2D Imager w/Green Spot feedback, Camera (13MP), front camera (8MP), Wi-Fi6E+5G, 6GB/64GB, Qual-comm Octa Core, 2,4GHz, Android v13, NFC, PTT, IP 65, IP67, Black Color, includes GMS, battery 4000 mAh warm swap, handstrap
- 944950020 Memor 17 Full Touch PDA, std range 2D Imager w/Green Spot feedback, Camera (13MP), front camera (8MP), Wi-Fi6E+5G, 6GB/128GB, Qualcomm Octa Core, 2,4GHz, Android v13, NFC, PTT, IP 65, IP67, Black Color, includes GMS, battery 4000 mAh warm swap, handstrap
- 944950023 Memor 17 HC Full Touch PDA, std range 2D Imager w/Green Spot feedback, Camera (13MP), front camera (8MP), Wi-Fi6E+5G, 6GB/128GB, Qualcomm Octa Core, 2,4GHz, Android v13, NFC, PTT, IP 65, IP67, White Color, includes GMS, battery 4000 mAh warm swap
- 944950028 Memor 17 Full Touch PDA, std range 2D Imager w/Green Spot feedback, Camera (13MP), front camera (8MP), Wi-Fi6E+5G, 6GB/64GB, Qualcomm Octa Core, 2,4GHz, Android v13, NFC, PTT, IP 65, IP67, Black Color, includes GMS, battery 4000 mAh warm swap, handstrap

For further details about the Memor 12/17 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 Memor 12/17 package contains:

- Memor 12/17 PDA (Model AELNRNA - WWAN SKU; Model AELWF - WLAN SKU)
- Rechargeable one-piece battery pack
- Quick Start Guide
- Safety & Regulatory Addendum

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

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.

GENERAL VIEW

Top View

Front View

Bottom View

Side View

Back View

CAUTION: When cleaning the device, avoid applying the detergent directly on the contacts. Moisten a soft dry cloth with an approved cleaning agent (refer to the Memor 12/17 User's Manual) to rub it across them. Do not leave any residue.

CAUTION: Do not apply any sticker to the Memor 12/17.

ACCESSORIES

Charging Docks

- 94A150123 Single Slot Dock Charging/Data (Ethernet+USB C) w/Spare Battery Slot - (requires 94ACC0380 - Power supply and regional power cord) for Memor 12-17, w/o rubber boot (requires 94ACC0395 - Adapter 1 pcs/unit for Memor 12/17)
- 94A150125 Vehicle Wireless Charging Dock for Memor 12-17 – Charge Only (requires part numbers 94ACC0327 - USB-C cable and 94ACC0382 CLA Adapter)
- 94A150126 Single Slot Charging Dock HC - white version, charge only (requires 94ACC0327 - USB-C cable and 94ACC0383 - Power Wall Adapter) for Memor 17 HC
- 94A150127 4-Slot Wireless Charging Dock HC - white version, charge only (requires 94ACC0380 - Power supply and regional power cord) for Memor 17 HC
- 94A150128 Single Slot Charging Dock - charge only (requires 94ACC0327 and 94ACC0383) for M12-17 without rubber boot (requires 94ACC0395 - Adapter 1 pcs/unit for M12-17) or for M30-35 without rubber boot (requires 94ACC0401 - Adapter 1 pcs/unit for M30-35)
- 94A150129 Single Slot Wireless Charging Dock -charge only (requires part numbers 94ACC0327 - USB-C cable and 94ACC0383 - Power Wall Adapter) for Memor 12-17 (requires 94ACC0394 - Adapter 1pcs/unit for Memor 12-17) and for Memor 30-35 (requires 94ACC0400 - Adapter 1
- 94A150130 4-Slot Charging Dock -charge only (requires 94ACC0380 and regional power cord) for M12-17 w/o rubber boot (requires 94ACC0398 - Adapters 4 pcs/units for M12-17) or for M30-35 w/o rubber boot (requires 94ACC0403 - Adapters 4 pcs/units for M30-35)
- 94A150131 4-Slot Wireless Charging Dock -charge only (requires 94ACC0380 - Power supply and regional power cord) for Memor 12-17 (requires 94ACC0397 - Adapters 4 pcs/units for Memor 12-17) or for Memor 30-35 (requires 94ACC0402 - Adapters 4 pcs/units for Memor 30-35)
- 94A150132 4-Slot Dock Charging/Data (Ethernet) - (requires 94ACC0380 and regional power cord) for M12-17 w/o boot (requires 94ACC0398 - Adapters 4 pcs/units for M12-17) or for M30-35 w/o rubber boot (requires 94ACC0403 - Adapters 4 pcs/units for M30-35)
- 94A150133 Smart Docking Station - Desktop mode (requires 94ACC0380 and regional power cord) for M12-17 w/o rubber boot (requires 94ACC0395 - Adapter 1 pcs/unit for M12-17) or for M30-35 w/o rubber boot (requires 94ACC0401 - Adapter 1 pcs/unit for M30-35)
- 94ACC0392 4-Slot Multi-battery Charger (requires 94ACC0380 - Power supply and regional power cord) for Memor 12-17
- 94ACC0394 Adapter for cradles wireless (1 PCS/unit) for Memor 12-17
- 94ACC0395 Adapter for wired charging/desktop docks (1 PCS/unit) for Memor 12-17 without protective boot
- 94ACC0396 Adapter for cradles wireless, HC (1 PCS/unit)
- 94ACC0397 Adapter for wireless charging docks (4 PCS/unit) for Memor 12-17
- 94ACC0398 Adapter for wired charging/desktop docks (4 PCS/unit) for Memor 12-17 without protective boot
- 94ACC0399 Adapter for cradles wireless, HC (4 PCS/unit)

Batteries

- 94ACC0410 Battery, Standard + Wireless charging 4000 mAh, for Memor 12-17
- 94ACC0414 Battery, HC, Memor 17 HC

Power Supplies/Cords

- 94ACC0327 USB-A to USB C cable / 1.2m long
- 94ACC0380 Power Supply, for Charging Docks, Memor 30-35 and Memor 12-17 (power cord to be purchased separately)
- 94ACC0382 CLA Adapter for Vehicle Wireless Charging Dock (USB-C Cable 94ACC0327 Sold Separately)
- 94ACC0383 Power Wall Adapter with 4 regional plugs – USB A (for 94ACC0327 USB A to USB C cable)
- 95A051041 Power Cord, Europe
- 95ACC1113 Power Cord, US
- 95ACC1213 Power Cord, UK
- 95ACC1212 Power Cord, Japan
- 95ACC1215 Power Cord, Australia
- 91ACC0049 Daisy chain connector (5 pieces) for M12-17/M30-35/JT/M1/SX5 charging docks and multi battery chargers

Cases/Holsters

- 94ACC0377 Belt Holster (w/Belt clip) for Memor 30-35 and Memor 12-17
- 94ACC0393 Wearable 360° turning Forearm Holder for Memor 12-17 - (requires 94ACC0404 Protective boot to mount the device)
- 94ACC0406 Pistol grip (Scan Trigger Handle) for Memor 12-17 (requires 94ACC0404 Protective boot to mount the device)
- 94ACC0408 Handstrap (5 pieces) for Memor 12-17
- 94ACC0409 Handstrap (5 pieces) for Memor 17 HC - light green
- 94ACC0411 Belt clip HC

Miscellaneous

- 94ACC0404 Protective Boot for Memor 12-17
- 94ACC0405 Protective Boot for Memor 12-17 HC
- 94ACC0391 Screen Protector (5 pieces) for Memor 12-17
- 94ACC0081 Lanyard Kit 5pcs for Skorpio X5 and for Memor 11, 12-17,30-35 pistol grip

BATTERY

INSTALL THE BATTERY

Insert the battery pack into the slot, bottom first, and press it into place:

INSTALL THE PROTECTIVE BOOT

The protective boot provides additional protection to the device and is available as optional accessory.

Insert the device into the protective boot, top first.

To remove the protective boot, grab the protective boot sides with your fingers while pressing the back bottom of the device with your thumbs, as shown in the picture below.

CHARGE THE BATTERY

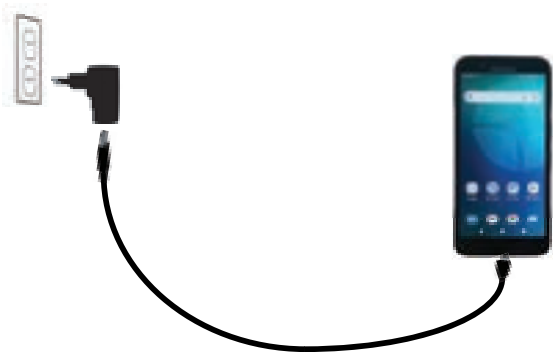
The battery pack is not initially fully charged. After installing the battery, charge it with a USB Type-C cable or with a dock (single slot dock, 4-slot dock, vehicle dock, 4-slot battery charger).

During the charging process the notification LED positioned at the top right side of the display glows red constantly. Once the charging process has been completed, the notification LED glows green constantly.

Charge with USB

Use a USB Type-C cable in conjunction with the power supply adapter (sold separately, p/n 94ACC0383) to charge the device from a power outlet.

The charger is modular, with one adapter and five switchover plugs.



You can also use the USB cable to charge the Memor 12/17 from any self-powered USB hub or USB port on a computer.

NOTE: Use only the Datalogic power supply 94ACC0383 to power the Memor 12/17.

Charge with the dock

Wired Docks and Smart Docking Station

Remove the adapter if the device is used with the protective boot.

Insert the device into the dock with the screen facing front and the head facing up.

Memor 12/17 with Protective Boot

Memor 12/17 without Protective Boot

NOTE: When the device is used without the protective boot, the adapter is optional and is used to improve the device stability and to allow easy insertion and removal of the device.

To remove the device from the dock, pull it upwards while holding the dock firmly down.

Wireless Charging Docks

Always use the adapter, whether the protective boot is installed or not.

To remove the device from the dock, pull it upwards while holding the dock firmly down.

CAUTION: Use the specific adapters for standard and healthcare models.

Before inserting the adapter in the dock, double check if an adapter is already present in the slot.

CAUTION: Use only the Datalogic power supply 94ACC0383 to power any of the docks.

Do not put any foreign object such as, but not limited to, coins, paper clips, stickers inside the slot of any of the wireless charging docks (see the examples below).

NOTE: For information on the single slot dock/ 4-slot dock/ vehicle dock/ 4-slot battery charger refer to the Quick Start Guide included in the dock's box.

NOTE: The Memor 12/17 may get warm during charging. This is normal and does not mean a malfunction.

BATTERY INFORMATION

CAUTION: Do not incinerate, disassemble, short terminals, or expose to high temperature. Risk of fire and explosion. Use specified charger only. Risk of explosion if the battery is replaced by an incorrect type. Dispose of batteries as required by local authorities.

ATTENTION: Ne pas incinérer, démonter, court-circuiter les appareils et ne pas les exposer à des températures élevées. Risque d'incendie et d'explosion. Utilisez uniquement le chargeur spécifié. Risque d'explosion si la batterie est remplacée par un type incorrect. Jetez les piles conformément aux exigences des autorités locales.

By default, the main battery pack is disconnected at the factory to avoid damage due to excessive draining.

Rechargeable battery pack is less than half of full charge when delivered. Before using the Memor 12/17, charge the battery pack as indicated in "Charge the Battery" on page 11.

The battery pack autonomy varies according to many factors, such as the frequency of barcode scanning, RF usage, battery life, storage, environmental conditions, etc. To maximize battery life, turn off radios when they are not needed.

Close to the limits of the working temperature, some battery performance degradation may occur. The Memor 12/17 should be charged at an ambient temperature between 20 - 35° C (68 to 95°F) to achieve the maximum charging rate.

Never charge the device battery in a closed space where excessive heat can build up. As a safety precaution, the battery may stop charging to avoid overheating.

The Memor 12/17 gets warm during charging; this is normal and does not mean a malfunction.

Even if the storage temperature range is wider, in order to achieve the longest battery life, store the device and the spare batteries between 20 to 30°C (68 to 86°F).

To maximize operating autonomy, the Memor 12/17 checks its battery level at all times. If the battery is not sufficiently charged, the Memor 12/17 will not turn on when the ON/OFF Power button is pressed.

In this case, either substitute with a charged battery, insert the Memor 12/17 into a powered cradle, or plug it into a wall charger.

CAUTION: Avoid storing batteries for long periods in a state of full charge or very low charge or in a state of continuous charging, especially at temperature higher than 30°C.

We recommend charging the battery pack every two to three months, if it is not used for long time, to keep its charge at a moderate level to maximize battery life.

Annual replacement of rechargeable battery pack avoids possible risks or abnormalities and ensures maximum performance.

WARNING: Use only Datalogic approved batteries and accessories for battery charging.

Risk of explosion if battery is replaced by an incorrect type.

Dispose of used batteries according to the instructions.

Il y a risque d'explosion si la batterie est remplacée par une batterie de type incorrect.

Mettre au rebut les batteris usagées confor mément aux instructions.

BATTERY SAFETY GUIDELINES

WARNING: Installing, charging and/or any other action should be done by authorized personnel and following this manual.

The battery pack may get hot, explode, ignite, and/or cause serious injury if exposed to abusive conditions.

If the battery pack is replaced with an improper type, there is risk of explosion.

Do not place the battery pack in or near a fire or other heat source; do not place the battery pack in direct sunlight, or use or store the battery pack inside unventilated areas in hot weather; do not place the battery pack in microwave ovens, in clothes dryers, in high pressure containers, on induction cook surfaces or similar devices. Doing so may cause the battery pack to generate heat, explode or ignite. Using the battery pack in this manner may also result in a loss of performance and a shortened life expectancy.

To power the cradle, use only a Datalogic approved power supply. The use of an alternative power supply will void the product warranty, may cause product damage and may cause heat, an explosion, or fire.

The area in which the units are charged should be clear of debris and combustible materials or chemicals.

Do not use the battery pack of this device to power devices other than this device.

Avoid storing batteries for long periods in a state of continuous charging, full charge or very low charge, especially at temperature higher than 30°C.

Periodically check the battery status and immediately discontinue use of the battery pack if, while using, charging or storing the battery pack, the battery pack emits an unusual smell, feels hot, changes colour or shape, swelling or appears abnormal in any other way.

Do not short-circuit the battery pack contacts connecting the positive device and negative device. This might happen, for example, when you carry a spare battery pack in your pocket or purse; accidental short-circuiting can occur when a metallic object such as a coin, clip, or pen causes direct connection of the contacts of the battery pack (these look like metal strips on the battery pack). Short-circuiting the devices may damage the battery pack or the connecting object.

Do not apply voltages to the battery pack contacts.

Do not pierce the battery pack with nails, strike it with a hammer, step on it or otherwise subject it to strong impacts, pressures, or shocks.

Do not disassemble or modify (i.e. bend, crush or deform) the battery pack. The battery pack contains safety and protection devices, which, if damaged, may cause the battery pack to generate heat, explode or ignite.

In case of leakage of liquid from the battery, avoid contact with liquid the skin or eyes. If the contact occurs, immediately wash the affected area with water and consult a doctor.

Do not solder directly onto the battery pack.

Do not expose the battery pack to liquids.

Avoid any knocks or excessive vibrations. If the device or the battery is dropped, especially on a hard surface, you should take it to the nearest Authorised Repair Centre for inspection before continuing to use it.

WARNING: If your device stops working for any reason, do not use its battery on other electronic devices without a prior check and approval by an Authorised Repair Centre.

Do not remove or damage the battery pack's label.

Do not use the battery pack if it is damaged in any part.

Battery pack usage by children should be supervised.

Collect and recycle waste batteries separately from the device in compliance with European Directive 2013/56, 2011/65, 2012/79 and subsequent modifications, with US and China regulatory laws and regulations about the environment.

SD CARD/ SIM CARD

1. Turn off the Memor 12/17.

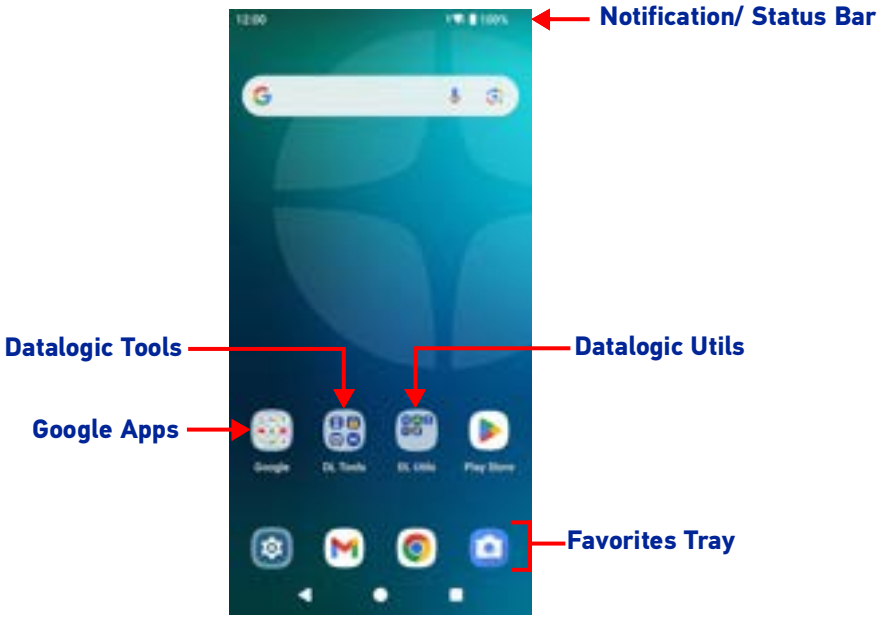
2. Take out the card tray and insert the SD/SIM card, the SIM side is for the SIM card (only for Memor 17 models), the other side is for the SD card.

GETTING STARTED

TURN ON THE DEVICE

To turn on the Memor 12/17, press and hold the power button for at least 4 seconds.

HOME SCREEN



Home Screen Items

Notification/Status Bar	Displays the time, status icons (right side), and notification icons (left side).
Favorites Tray	It is like a dock for your home screen. By default, it includes commonly used apps, but you can customize it.
Datalogic Utils	Shortcut to Datalogic's native applications and settings: Datalogic Settings, SoftS-pot, Battery Manager, WiFi Guard, Logger.
Datalogic Tools	Shortcut to Datalogic's tools: Scan2Deploy, Launcher, Browser, Scan Demo.
Google Apps	Shortcut to Google's native applications: Google, Gmail, Maps, YouTube, Drive, YT Music, Google TV, Meet, Photos.

Status Bar Icons

	Wi-Fi is on.		Battery is low.
	Wi-Fi not connected.		External power source is connected.
	Wi-Fi connected no internet.		Battery is full.
	Connected to a Wi-Fi network.		Battery is partially drained.
	Bluetooth is on.		Airplane mode.
	Vibrate mode.		SD storage.

SUSPEND MODE

Suspend mode automatically turns the screen off and locks the terminal to save battery power when the terminal is inactive for a programmed period of time.

Press and release the power button to toggle the terminal in suspend mode.

Press and release the power button or any of the wake-up sources to toggle the terminal out of suspend mode. The default wake-up sources are the side triggers, the pistol trigger and the PTT. Use the **Datalogic Settings** to customize them (see "Wake-Up Policies" on page 63).

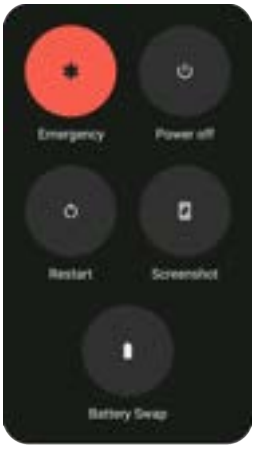
To unlock the home screen, tap anywhere on the screen and drag your finger upward.

To set the timeout limit, see "Suspend Timeout" on page 60.

LONG PRESS POWER MENU

Press and hold the **Power** button until the **Long Press Menu** menu displays:

AELWF Models



AELNRNA Models

Emergency

Tap Emergency to make an emergency call.

Power Off

Tap **Power Off** to turn off the terminal. When you turn off the terminal, the session you are working on expires and it won't be possible to restore it.

Restart

Tap **Restart** to restart the terminal.

Screenshot

Tap **Screenshot** to take a screenshot.

Battery Swap

Tap to perform a Battery Swap. See "Battery Swap" on page 22.

Only available on warm swap models (P/Ns 944950019, 944950020, 944950023, 944950028).

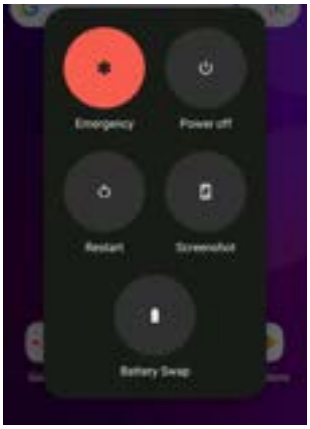
BATTERY SWAP

Battery Swap mode is a low-power suspend mode that allows you to replace the battery pack without closing files and applications. It maintains the main memory contents and keeps applications running, but does not allow you to operate any of the device's functions.

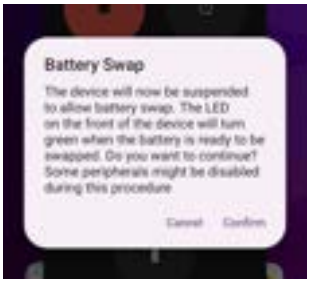
This feature is only available on warm swap models (P/Ns 944950019, 944950020, 944950023).

To switch to Swap Battery mode:

1. Press and hold the **Power** button to display the **Long Press Menu** and tap **Battery Swap**:



2. Tap **Confirm**.



3. The Battery LED starts blinking blue, and the Notification LED lights up solid red.
4. Wait for the Notification LED to turn solid green, and then replace the battery (see "Install the Battery" on page 10.
5. Press and release the power button to resume your session. The battery LED will turn off.

CAUTION: Be sure to insert a charged battery pack. If the battery is fully discharged, the device may turn off. If this happens, insert a charged battery and press the power on button to boot-up the device.

APPLICATIONS

The **All Apps** screen displays icons for all installed applications. The table below lists the default applications installed on the Memor 12/17.

Datalogic Utilities

Icon	Description
	Datalogic Settings - See "Datalogic Settings" on page 30.
	SoftSpot - A configurable application meant to provide easy access to frequently used functionalities, as well as activating the scan engine of the device (see "Datalogic Tools" on page 94).
	Battery Manager - Provides information on the battery type, charge, status and temperature, allows to set the charging profile and to log battery data (see "Battery Manager" on page 86)
	WiFi Guard - Android application that collects information on a Wi-Fi network and provides tools to assist in improving network performance and diagnosing connection problems.
	Logger - Android application that collects device logs for further analysis (see "Datalogic Logger" on page 93).

Datalogic Tools

Icon	Description
	Scan2Deploy - Configuration tool (see "Scan2Deploy" on page 96).
	Launcher - Android application that locks down the device to launch only allowed applications (see "Datalogic Launcher" on page 96).
	Browser - Android application for web browsing to only allowed sites and to expose JavaScript access to the scanner (see "Datalogic Enterprise Browser" on page 96.
	Scan Demo – Enables data capture (see "Data Capture" on page 97).

Google Applications

Icon	Description
	Google - Google's own web search engine.
	Gmail - Use it to send and receive email.
	Maps - Google's own mapping mobile app.
	Youtube - Google's own video-sharing website
	Drive - Google's own file storage and synchronization service. Use it to safely store, synchronize and share your photos, videos, files and more in the cloud.
	YT Music - Music streaming service from YouTube
	Google TV - Google's own online video on demand service. It offers movies and television shows for purchase or rental, depending on availability.
	Meet - Google's own video communication service. Use it to make video calls in high definition.
	Photos - Google's own photo sharing and storage service.
	Play Store - Google's own digital distribution service. It serves as the official app store for the Android operating system and as a digital media store.
	Calendar - Lets you manage events and appointments.
	Chrome - Google’s own web browser. Use it to access the Internet or intranet.
	Files - It lets you manage files and folders.

Android Applications

Icon	Description
	Calculator - Provides the basic and scientific arithmetic functions.
	Camera - Use it to take photos or record videos.
	Clock - Lets you schedule alarms for appointments or as a wake-up.
	Contacts - Allows you to manage contacts information.
	Keep Notes - Note-taking service developed by Google. It offers a variety of tools for taking notes, including text, lists, images, and audio.
	Settings - Use it to configure the Memor 12/17 (see "Settings" on page 29).
	Sound Recorder - Tool for recording the sound and editing the saved recordings.
	DisplayLink Desktop - Allows to connect a DisplayLink device and use your apps on a desktop monitor.

TOUCH GESTURES

Tap	Tap the screen with your finger or with the stylus to open items and select options.
Drag	Hold your finger or the stylus on the screen and drag across the screen to scroll or pan. Drag in a list to select multiple items.
Tap-and-hold	Tap and hold your finger or the stylus on an item to see a list of actions available for that item. On the pop-up menu that appears, tap the action you want to perform.

RESET THE DEVICE

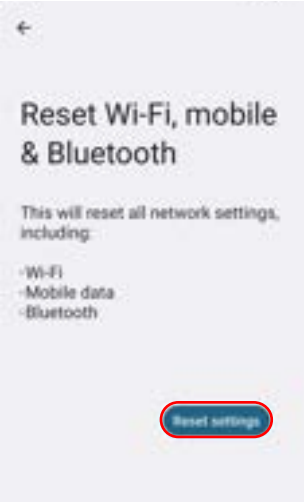
Configuration Reset

Configuration reset sets the configuration of the device (all its settings) to a known status: the factory status or an enterprise-user-defined status.

Reset Wi-Fi, Mobile & Bluetooth

Resets all network settings.

1. Tap **Settings** > **System** > **Reset options** > **Reset Wi-Fi, mobile & Bluetooth**.



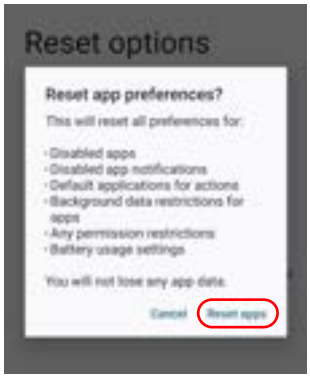
2. Tap **Reset settings**.

Reset App Preferences

Resets all preferences for:

- disabled apps
- disabled app notifications
- default applications for actions
- background data restrictions for apps
- any permission restrictions
- battery usage settings.

1. Tap **Settings** > **System** > **Reset options** > **Reset app preferences**.

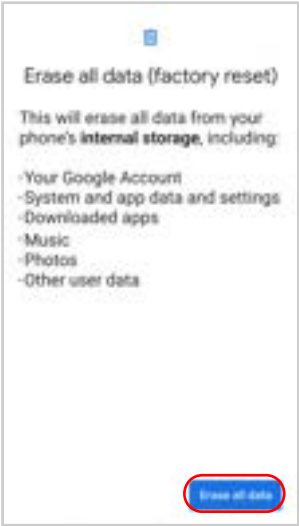


2. Tap **Reset apps**.

Factory Reset

Brings the device to the default configuration, clearing all the user-customized settings.

1. Tap **Settings** > **System** > **Reset options** > **Erase all data (factory reset)**.



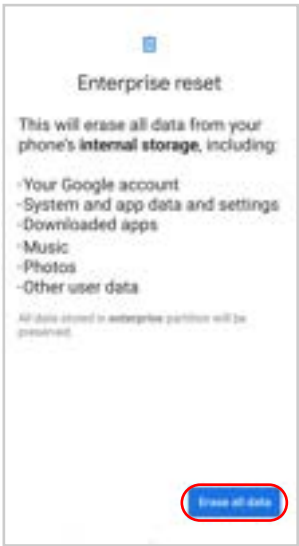
2. Tap **Erase all data**.

Enterprise Reset

Enterprise Reset brings the device to an enterprise-user-defined configuration, clearing all data and settings except the ones persisted by the enterprise system applications in the **enterprise** flash partition and in the **splash** flash partition.

The Enterprise folder is a file system storage that is used for deployment and device-unique data. It is persistent and maintains data after an Enterprise reset. Applications and custom settings (i.e. custom boot animation and wallpaper) can persist data after an Enterprise Reset by saving them to the enterprise folder.

1. Tap **Settings** > **System** > **Reset options** > **Enterprise reset**.



2. Tap **Erase all data**.

LED INDICATORS

The LEDs illuminate to indicate various functions or errors on the reader. The following tables list these indications. The good read LED indicator is programmable, and may or may not be enabled ("Scanner & Decoder" on page 30 for more details). The notification LED is configurable via SDK.

LED	Status	Description
Battery LED	Red Constant	The device is charging.
	Green Costant	Charging is complete.
	Red Blink	Charge fault.
Notification LED	Red	Light is solid red from the time the user presses the scan key until the barcode is decoded, until the scanner times out, or until the user releases the scan key.
	Green	Light changes to solid green when a good decode is completed.

SETTINGS

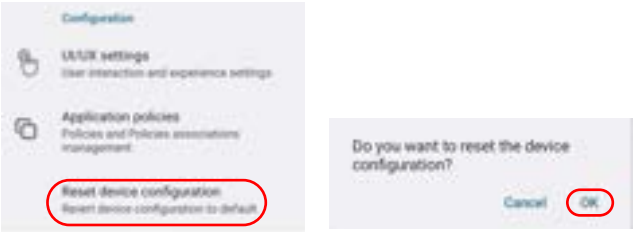
OVERVIEW

The **Settings** app allows you to check or set system parameters to customize your device. To open the **Settings** screen, tap the **Settings** icons on the **All Apps** screen.

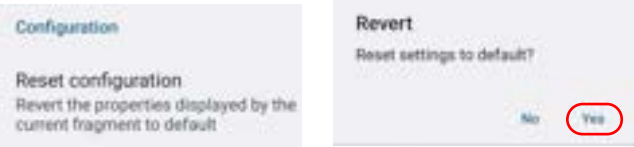
DATALOGIC SETTINGS

The **Datalogic Settings** app allows you to configure scanner and decoder, control power and source behavior, configure keyboard, trigger and mappings, Wi-Fi roaming, USB data and features, touch mode settings, NTP server address status and navigation bar, update device firmware and display device information.

Tap **Reset device configuration** at the end of the **Datalogic Settings** main screen to reset all configuration settings to the factory default settings:



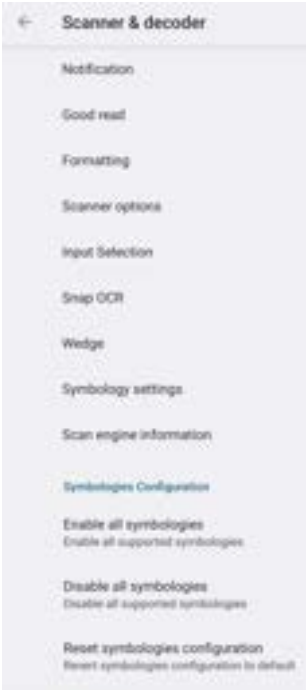
Tap **Reset configuration** at the end of a specific settings screen to reset those configuration settings to default:



Scanner & Decoder

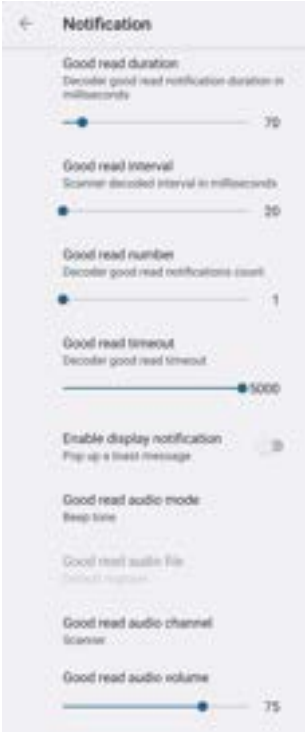
Before you start reading barcodes, use the **Settings** app to view and configure all settings for the scanner.

From the applications menu, tap **Settings** > **Datalogic Settings** > **Scanner & decoder**. Select the desired configuration from the following options:



Notification

Use it to configure the good read tone and display notification:



Good Read Duration

Sets the duration of the notification (LED, green spot or beep) the scanner emits on a good read.

Good Read Interval

Sets the interval between each notification (LED, green spot or beep) the scanner emits on a good read.

Good Read Number

Sets the number of notifications (LED, green spot or beep) the scanner emits on a good read.

Good Read Timeout

Sets the amount of time before the good read LED and the green spot turn off after a successful decoding (unless the trigger is released or the SDK release function is called before that time).

Enable Display Notification

Enables display notifications (toasts). If cleared, the scanner is disabled until you launch a scanner listener application developed using the Datalogic SDK or enable a keyboard/ intent wedge.

Good Read Audio Mode

Sets the audio tone to:

- None
- Beep tone
- Audio file
- Viper beep

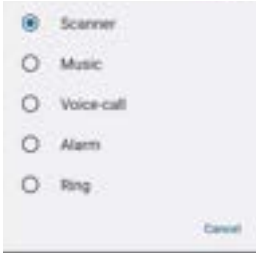
- Baroque beep
- Loud beep
- Tweet beep

If **Audio file** is selected, the option **Good read audio file** displays. Tap it to select the file you want to use as good read ringtone.

NOTE: The Notification settings do not apply to an audio file.

Good Read Audio Channel

Allows to select the audio channel to be used for scanner notifications.

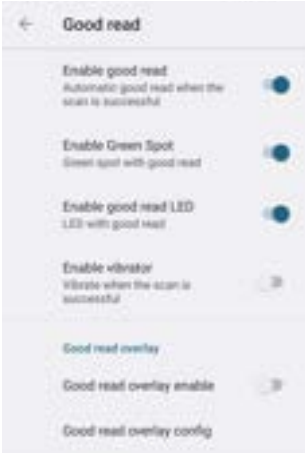


Good Read Audio Volume

Sets the volume of beep tone or audio file (if enabled).

Good Read

Use it to enable good read notifications (LED, Green Spot, Vibrator):



The Good Read Overlay feature is an additional good read indication which displays an image on the screen when a scan is successful. The image is drawn over the existing screen contents for the same duration as other good read indicators.

Tap **Good read overlay enable** to enable the Good Read Overlay notification when a scan is successful.

Tap **Good read overlay config** to configure the color, the shape policy and the position of the image and to customize the overlays.

Overlay color

Specifies the color to use with the overlay. It is applied only when **Preserve colors** is disabled. The format is AARRGGBB (hexadecimal values of Alpha, Red, Green, Blue). The default value is 80FF212F.

Transparency

Drag the slider to set the overlay transparency.

Preserve colors

If enabled, the overlay image will retain its original colors and the overlay color will not be taken into account.

Black as transparent

By default, the white areas in the overlay are treated as transparent. Enable this setting to treat the black areas as transparent.

Shape policy

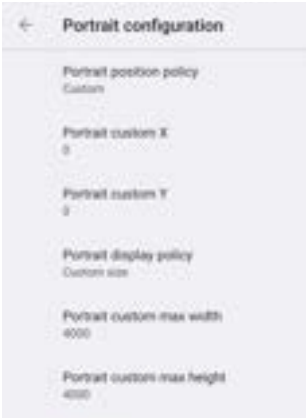
Specifies the shape to display for the overlay image. If **Full screen** is selected, the entire screen is filled with the selected color. The default value is **Full screen**. Select **Custom** to upload an overlay image.

Manage custom overlays

Allow to upload the overlay image to use when the policy shape setting is **Custom**. The file must have PNG format.

Portrait configuration

Configures the position and size of the overlay in portrait orientation.



Set the **Portrait position policy** to **Custom** to configure the X/Y coordinate settings.

Set the **Portrait display policy** to **Custom size** to configure the width/height settings.

Landscape configuration

Configures the position and size of the overlay in landscape orientation.

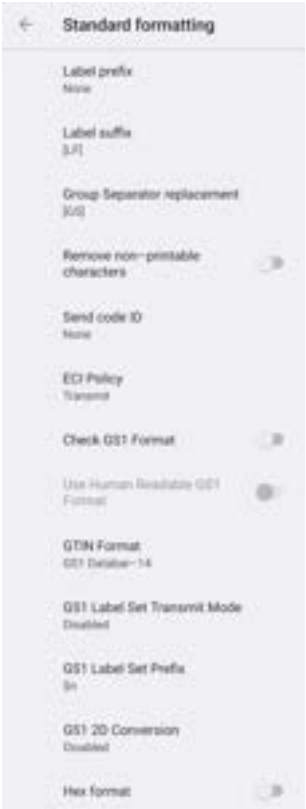
Set the **Landscape position policy** to **Custom** to configure the X/Y coordinate settings.

Set the **Landscape display policy** to **Custom size** to configure the width/height settings.

Formatting

Standard Formatting

Allows to format the barcode text by enabling and configuring the use of prefix, suffix, group separator and code identifier:



Label Prefix

Tap **Label prefix** to enter the characters you will be using as prefix. Tap **Add special** to select a special character to be added in the current cursor position:

Label Suffix

Tap **Label suffix** to enter the characters you will be using as suffix. Tap **Add special** to select a special character to be added in the current cursor position:

Group Separator Replacement

The Group Separator replacement is a non printable data separator character (ASCII code 1D hex). Tap **Group Separator replacement** to enter a string that will be used as GS data separator substituting the standard GS character.

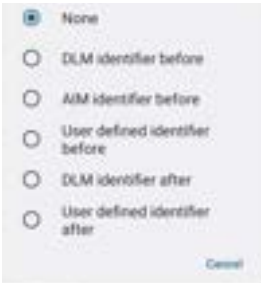
Tap **Add special** to select a special character to be added in the current cursor position:

Remove Non-Printable Characters

Enable it to remove non-printable characters from a unicode string.

Send Code ID

Tap **Send code ID** to add a code identifier prefix or suffix to the barcode string:



The AIM ID (Association for Automatic Identification and Mobility) is an international barcode identifier. When **AIM identifier before** is enabled, the AIM ID is inserted at the beginning of the decoded barcode.

DLM identifier is a Datalogic specific character identifier.

User defined identifier is a user specific character identifier you can set in the related symbology settings menu.

ECI Policy

Extended Channel Interpretation (ECI) is an extension to the communication protocol that is used to transmit data from a barcode reader to a host when a barcode symbol is scanned. It enables the application software to receive additional information about the intended interpretation of the message contained within the barcode symbol and even details about the scan itself.

An ECI-enabled bar code symbol may use several character sets by embedding several character set ECI indicators to delimit segments of the message that are encoded using different code pages.

There are two reference models for data interchange in bar coding systems:

The Basic Channel Model (BCM) describes the functional components that co-operate to convey a message via a traditional bar coding system.

The Extended Channel Model (ECM) adds a processing layer to the front and back ends of the Basic Channel, to enable ECI-capable data carriers to convey both the message and information about that message.

Select **Transmit** to set the data interface in "Extended Channel Mode".

Select **Remove** to set the data interface in “Basic Channel Mode”.

Select **Evaluate** to convert the barcode content to Unicode using the code pages identified by the embedded ECI indicators.

Check GS1 Format

Enables the check for the GS1 format (applicable to GS1-128, GS1 Databar, GS1 DataMatrix, GS1, QR Code, etc.).

Use Human Readable GS1 Format

Enables conversion of GS1 barcodes to the readable GS1 string format when the barcode is compliant with GS1 format.

GTIN Format

Sets the representation used for the GTIN-14 format. You can choose between **GS1 Databar-14** and **GS1-128**.

GS1 Label Set Transmit Mode

Sets the mode used to transmit GS1 label sets. A label set consists of all the GS1 barcodes that have the same GTIN value. The available options are:

- **Disabled**: the feature is disabled
- **First Label (Mode 1)**: Send only the first GS1 label found with a given GTIN. The same label can be sent if the double read timeout has expired without decoding it
- **All Labels (Mode 3)**: Send all the labels found with a given GTIN, adding a prefix to identify the same label set. The same label set can be sent if the double read timeout has expired without decoding it
- **Prioritize 2D Label Mode 2)**: Send 2D label with a given GTIN if decoded, otherwise send the 1D label if found and if the double read timeout has expired.

GS1 Label Set Prefix

Sets the label set prefix to use when the label set mode is set to **All Labels**.

GS1 2D Conversion

Sets the conversion used for GS1 2D barcodes. The available options are:

- **Disabled**: No conversion
- **GS1-128**: Convert the barcode to GS1-128 format
- **GTIN**: Take only the GTIN portion of the barcode and convert it to GTIN format
- **UPCA/EAN13 Compatibility**: Take only the GTIN portion of the barcode and convert it to the shortest option between GTIN, EAN13 and UPCA
- **Shortest UPC/EAN Compatibility**: Take only the GTIN portion of the barcode and convert it to the shortest option between GTIN, EAN13, UPCA, EAN8 and UPCE.

Hex format

If enabled, it formats the read data as a readable hexadecimal string. Ignores other formatting options.

Visual Formatting

Enable to set up barcode visual formatting.

For more details, refer to https://datalogic.github.io/scan2deploy/visual-formatter-basic-concepts.

Scanner Options

Tap **Scanner Options** to customize the Memor 12/17 scanning behavior.

Enable Scanner

Enables the internal scanner.

Scanner/Camera Interoperability

By default, the scanner is prevented from starting barcode scanning when the camera is in preview. This setting enables interoperability between the scanner and other cameras, allowing the user to scan barcodes even while another camera is in use.

Enhance DoF

If enabled, allows to enhance the maximum reading distance.

Enable Picklist

If enabled, it allows you to pick and decode a barcode from multiple barcodes printed close together, when the scan illumination intersects more than one barcode. Only the targeted barcode will be returned.

Enable Illumination

If enabled, it causes the scanner to turn on the illumination to aid decoding.

Enable Aim

Enables the laser aim.

Display Mode (Antireflex)

Optimizes the reading of a barcode from a screen.

Scan Mode

Selects the scan operating mode for the reader.

Single

When the trigger is pulled, scanning is activated until one of the following occurs:

- a label has been read
- the trigger is released
- the decode timeout has elapsed.

Hold Multiple

When the trigger is pulled, the device scans barcodes until the trigger is released or the decode timeout has elapsed.

Pulse Multiple

When the trigger is pulled, continuous scanning is activated until the decode timeout has elapsed or the trigger has been released and pulled again.

Always On

No trigger pull is required to read a barcode. Scanning is continually on.

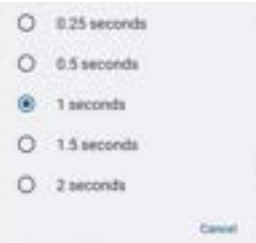
Enable Target Mode

If enabled, when the scan button is pressed, the scanner will project an aiming pattern to assist in centering over the barcode before scanning.

Tap **Target mode** to select the desired targeting behavior:

Spot Timeout

Scanning takes place after a programmable time upon pressing the scan button. Tap **Target timeout** to set the duration of the spot:



Release Scan

Scanning takes place after the scan button is released. Drag the **Release scan timeout** slider to set the scanning timeout after releasing the scan button:

Decode Timeout

Drag the slider to set the maximum amount of time the scanner attempt to decode after target timeout (in case **Spot Timeout** is enabled) or after the scan button is pressed (in case **Target mode** is disabled):

Image Decode Timeout

You can share any image (picture, jpg/png, etc.) with the Datalogic Service to try to decode it. Drag the **Image decode timeout** slider to set the decode timeout applied with image decoding.

Enable Multi Scan

If selected, the scanner captures multiple labels sequentially.

Number of Labels

Drag the slider to indicate the amount of labels required for a code to be confirmed.

Enable Single Notification

If selected, it enables indicators for each label, in order to get an intermediate notification for each label decoded.

Partial Results

When multi scan mode is enabled, it selects the behavior when partial results are present.

Never

The decoding session is ended successfully and all the collected labels are returned together, only if the **Number of Labels** is reached.

Only on Timeout

The decoding session is ended successfully and all the collected labels are returned together, only if the decode timeout has elapsed.

Only on Release

The decoding session is ended successfully and all the collected labels are returned together, only if the trigger is released.

Both

The decoding session is ended successfully and all the collected labels are returned together if the trigger is released or the decode timeout has elapsed.

Presentation Mode

If enabled, the device starts to scan when motion is caught.

Aim Control

Enables the aimer while detecting motion.

Sensitivity

Drag the slider to configure the motion detector's sensitivity.

External Scanner Source

If enabled, allow barcode injection from an external scanner.

Standard Formatter Enable

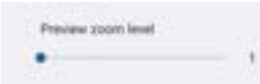
Executes the Standard Formatter on the injected barcodes.

Input Selection

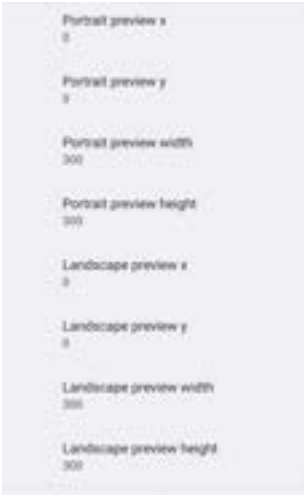
Tap **Input Selection** > **Input type** to select the hardware to use for scanning. The two options are: Scan engine and Camera rear.

The default value is **Scan engine**. If **Camera rear** is selected, you can set the **Preview display mode**. The default value is **Fit screen**.

Drag the **Preview zoom level** slider to set the zoom level of the camera preview.

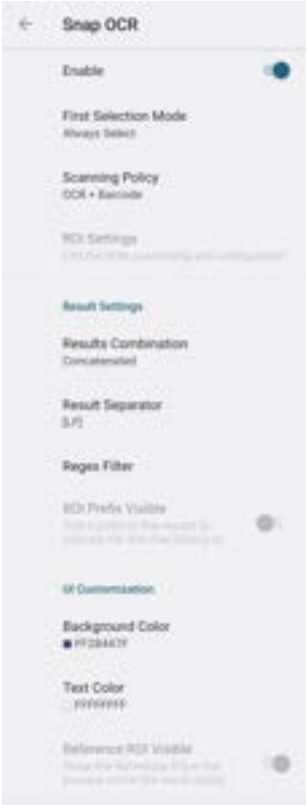


Select **Manual positioning** to configure the following settings:



Snap OCR

If enabled, the scanner extracts text from a captured image with the use of Text Recognition from Google's ML Kit.



Enable

Allows OCR text from scanner or camera (based on the selected input) to be decoded and displayed as a barcode result.

When you press the trigger, a preview of the camera or scanner frame is displayed on the screen. The OCR text is decoded while the trigger is held, and a bounding box will show around the successfully decoded text.

To confirm the selection, release the trigger. The decoded OCR text is then processed according to the settings specified below.

First Selection Mode

Specifies how the OCR text is selected to be sent as a result. The available options are:

Always Select

Asks you to select the text from a dialog showing all the decoded OCR text inside the frame.

ROI Propose

Selects all the text found in defined ROIs and you can decide to deselect parts of the text.

Picklist Propose

Searches for the closest bounding box result near the center of the image, selects it and then asks for confirmation.

ROI Send

Sends all the text found in defined ROIs as barcode result.

Picklist Send

Automatically sends the result for the closest bounding box near the center of the image.

Scanning Policy

Specifies the scanning policy. The available options are:

OCR + Barcode

Decodes both OCR texts and barcodes.

OCR Only

Decodes only OCR texts.

OCR Trigger

Maps the OCR decoding to a newly added keycode (called OCR_DECODE). The standard barcode decoding keycode will not trigger OCR decoding.

ROI Settings

Configures the ROIs used in the **ROI Propose** and **ROI Send** first selection modes.

Result Settings

Configures the OCR results.

Results Combination

Specifies how to combine the different OCR text results that are selected. The available options are:

- **Concatenated** - concatenates the OCR texts into a single result, using the separator configured in Result Separator.
- **Divided** - sends each selected OCR text as a separate result.

Result Separator

Configures the separator to use when the results combination is set to **Concatenated**.

Regex Filter

Defines a regular expression (regex) pattern to filters out any decoded OCR text.

ROI Prefix Visible

If enabled, it adds a prefix to the OCR results to indicate the ROI they belong to.

The prefix format is: <ROI NUMBER>:<OCR TEXT>, where <ROI NUMBER> indicates the index of the ROI inside the ROI Settings (starting from 1) and <OCR TEXT> is the original result.

UI Customization

Configures the User Interface of the Snap OCR feature.

Background Color

Sets the background color for the result dialog shown when the first selection mode is **Always Select**, **ROI Propose** or **Picklist Propose**.

Text Color

Sets the text color for the result dialog shown when the first selection mode is **Always Select**, **ROI Propose** or **Picklist Propose**.

Reference ROI Visible

Toggles visibility for the reference ROI in the preview.

Wedge

Use it to enable or disable the keyboard wedge and the intent wedge:

Enable Keyboard Wedge

Enables/disables the keyboard wedge mode.

Keyboard Wedge Only on Focus

If selected, the scanner is enabled whenever a text area is in focus and can receive text.

It provides a safer way to input keystrokes into the foreground application, allowing to send captured data in the form of key events only to the current text area with active keyboard input.

If this setting is not enabled, keystrokes will be always dispatched to the foreground application.

Keyboard Wedge Input Mode

Allows to select the scanned data input mode.

Text Injection

The scanned barcode is injected into the text area.

Key Pressure

The scanned barcode is translated into keyboard strokes.

Commit Text

The printable characters are injected into the text area, emulating the pressure of keyboard keys for not printable keys.

Non-printable key event delay

Delay applied before and after every non printable character. This is valid only for the **Commit text** and the **Text injection** modes of the keyboard wedge.

Enable Intent Wedge

Enables the broadcast of specific intents to the listening applications. The broadcasted intent can have its custom Action, Category and extra content fields. The scanner is enabled whenever the intent option is flagged.

Enable Web Wedge

Enables direct data input into internet browsing applications, in the form of a valid URL.

Camera Wedge

If enabled, it replaces the rear camera with a virtual camera showing the barcodes read by the scanner. You can customize the barcode type, persistence, orientation, size, color and position.

Symbology Settings

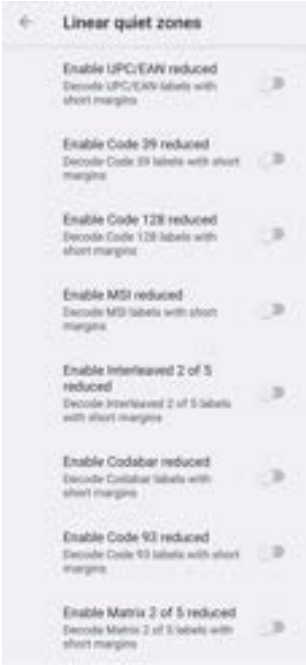
Each barcode symbology can be customized with additional settings that may affect that specific barcode decoding. Tap **Symbology settings** to configure symbology decoding options:

Refer to the sample symbology control panels for examples of the types of fields and options you can modify. The example below shows the settings of a Code 128 barcode symbology:

Advanced Barcode Options

Linear Quiet Zones

Tap **Linear quiet zones** to reduce the blank margin on either side of a linear barcode.



Inverted Decoding

Defines the decoding mode for regular/reverse barcodes for both 1D and 2D barcodes:

Scan Engine Information

Provides information on the scan engine.

Symbologies Configuration

Use this section to change symbologies settings globally and to persist them.

Keyboard & Touch

Virtual Keyboard

Enabled Google keyboard and Google Voice Typing.

Physical Keyboard

Layout

Allows to configure the default layout of the physical keyboard. This configuration takes effect only if the **Layout policy** is set to **Custom**.

This property can be set with a String defining the **keyboard layout identifier**, **keyboard layout short identifier** or **locale**:

- **keyboard layout identifier**: it is the physical keyboard layout identifier defined by "[package name]/[receiver name]/keyboard_layout_xxx".
  For example:
  com.android.inputdevices/com.android.inputdevices.InputDeviceReceiver/keyboard_layout_polish corresponds to Polish keyboard layout provided by Android.
- **keyboard layout short identifier**: it is the physical keyboard layout identifier defined by "keyboard_layout_xxx". This is a shorter version of keyboard layout identifier, obtained by omitting the "[package name]/[receiver name]/" prefix.
  An App could define a custom layout using the same short identifier keyboard_layout_xxx already used by a pre-loaded layout, when the user sets this property using that value, the pre-loaded keyboard layout will be used instead of the custom one. So, in case of custom layouts, it is required to configure this property using the keyboard layout identifier, instead of the shorter definition.
  For example:
  keyboard_layout_german corresponds to German keyboard layout.
- **locale**: it is the locale identifier defined by [language identifier with two lowercase letters]-[country code identifier with uppercase two letters], where the country code is optional and it depends on the language.
  For example:
  "fr" or "fr-FR" corresponds to French language in France.
  "fr-CA" corresponds to French keyboard layout in Canada.
  Locale is a compact representation, but it does not always match uniquely with a keyboard layout. Not all the Locales have a corresponding layout (e.g chinese). In this case, when you set this property with one of those Locales, an error will be returned.
  Not all the Locales have only one corresponding layout (e.g "en-US"). In this case, when you set this property with one of those Locales, the most common layout for that Locale will be chosen.

Layout policy

Allows to select the layout policy. The available options are:

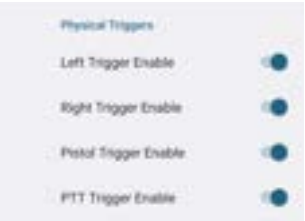
- Default
- Automatic
- Custom.

Lock Keyboard Input

If enabled, it locks user input from the keyboard.

Triggers

Tap **Triggers** to enable/disable the trigger keys. The physical triggers are enabled by default.



Physical Trigger active in suspend

Sets the trigger keys that remain active in suspend mode. The PTT trigger is enabled by default.

Motion Trigger

Barcode reading can be triggered by any rapid movement of the Memor 12/17. Tap **Motion Trigger Enable** to automatically read barcodes with the described specific gesture, without pressing any trigger button.

Tap **Motion Trigger Sensitivity** to select the intensity/amplitude/rapidity of the movement at which the device will automatically start scanning barcodes.

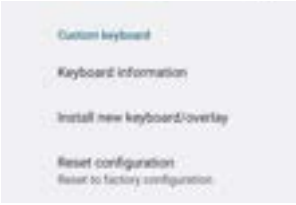
Select **Vibrate When Motion Detected** to enable the vibrator.

Advanced Keyboard Settings

Multitap Delay

The numeric keypad uses a multitap ABC input mode. **Multitap Delay** defines after how much time from the first key press the associated character will be submitted to the user interface.

Custom Keyboard



Keyboard Information: displays keyboard info.

Install New Keyboard/ Overlay: allows to install a new keyboard.

Reset Configuration: restores default keyboard.

Key Remapping

Tap **Add new mapping** to remap an input key, then press the key you want to remap. The following window displays on screen:

- **Scancode** represents the physical location of a keyboard key.
- **Meta states** represents modifier key. Default is **None**.

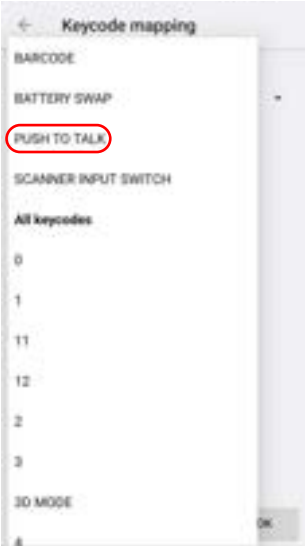
Select a mapping type and tap **Next**.

Keycode remap

Map the selected key to a new function.

Tap the arrow to open a menu and select the new function you want to assign to the selected key.

Tap **Select meta states (optional)** to add a modifier key (such as **SHIFT**, **CTRL**, or **ALT**).



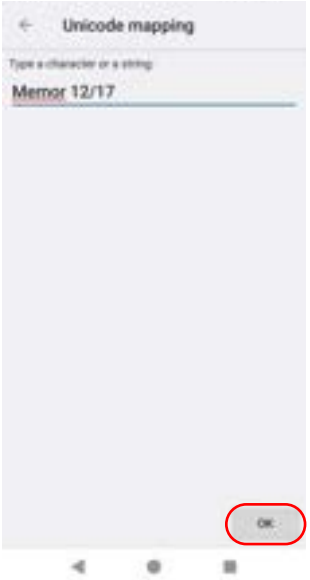
Tap **OK**. A window displays showing the new keymap.

Tap **Next** to confirm.

Text remap

Map the selected key to a desired text or a character.

Type a character or string. Tap **Back** to hide the virtual keyboard an then and tap **OK** to confirm.



A window displays showing the new keymap.

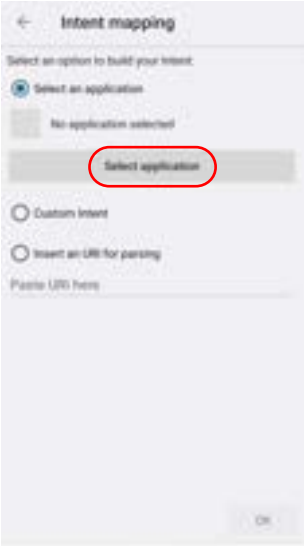
Tap **Next** to confirm.

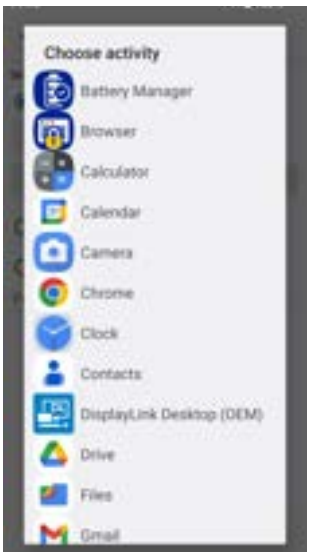
Intent remap

Map the selected key to a specific action. This action can be a start activity intent for launching an application, a user defined intent or an intent including a URI (Uniform Resource Identifier).

Select an application

Tap **Select an application**, then select an application loaded on your device. Tap **OK** to confirm.





A window displays showing the new keymap.

Tap **Next** to confirm.

Custom Intent

Tap **Custom Intent** to configure a customized action to be triggered when the key is pressed. A custom intent can include customized parameters, such as data or additional options, which are sent to an application.

Insert an URI for parsing

Tap **Insert an URI for parsing** to map the selected key to a URI and trigger an action that interprets and executes the URI, such as opening a website or launching an application.

Advanced configuration

Configure a complex behavior for various events of the selected key. For each of them, you can add one or more actions to be run when the corresponding event is detected.

Advanced mapping time configuration

This section defines the timings for different press types.

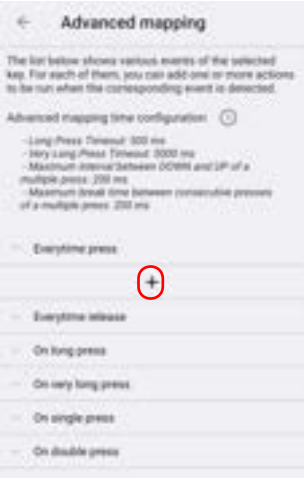
- **Long Press Timeout**: the minimum duration for a press to be recognized as a long press gesture (default: 500 ms).
- **Very Long Press Timeout**: the minimum duration for a press to be recognized as a very long press gesture (default: 5000 ms).
- **Maximum interval between DOWN and UP of a multiple press**: the maximum time allowed between pressing a key (DOWN) and releasing it (UP) for it to be considered part of a double press (default: 200 ms).
- **Maximum break time between consecutive presses of a multiple press**: the maximum time allowed between the first release (UP) and the second press (DOWN) for it to be considered a double press (default: 200 seconds).

Mapping policies

This section defines when the assigned actions are triggered.

- **Everytime press**: actions trigger every time the key is pressed.
- **Everytime release**: actions trigger every time the key is released.
- **On long press**: actions trigger when the key is held down for the Long Press Timeout duration.
- **On a very long press**: actions trigger when the key is held down for the Very Long Press Timeout duration.
- **On single press**: actions trigger with a quick press and release. This is the standard behavior.
- **On double press**: actions trigger after a double press (within the defined timing parameters).

For each policy you can add one or more actions to be performed. There can even be delays between these actions (e.g., a long press could trigger action A, then after a short delay, trigger action B).



View All Remapped Keys

Tap **View all remapped keys** to display all remapped keys. Tap the **Edit** icon to edit an entry. Tap the **Dustbin** icon to remove an entry.

Key Mapping Reset

Resets all the remapped keys default.

Touch Mode

Tap **Touch mode** > **Screen sensitivity** to adjusts touch-screen sensitivity for input with a bare, a gloved finger, a stylus, or a wet display.

Push to Talk

Push to talk (PTT) is a means of instantaneous communication that uses a button to switch a device from voice transmission mode to voice reception mode. Memor 12/17's PTT is compatible with Zello.

Use the Push to talk settings to:

- enable/disable notifications when PTT configuration changes
- enable/disable a walkie-talkie app to be activated while the screen is locked
- launch a walkie-talkie app by pressing the PTT key while the screen is locked
- select a walkie-talkie application.

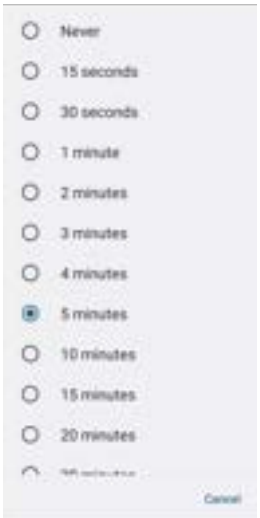
Power & Sources

Suspend Timeout

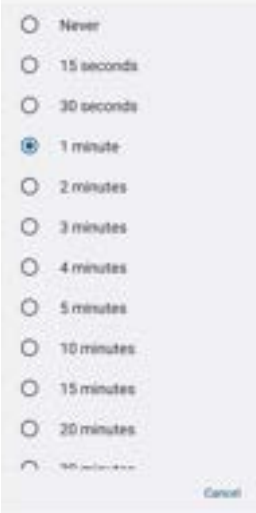
You have two options to set the suspend timeout (see "Suspend Mode" on page 20 for more information on Suspend Mode):

1. Tap **Settings** > **Datalogic Settings** > **Power & sources**:

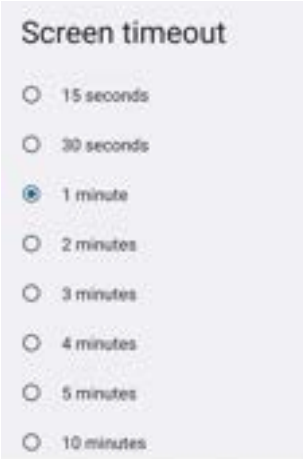
- **External power** sets the number of seconds without user input activity before the system is suspended while running on external power.



- **Internal battery** sets the number of seconds without user input activity before the system is suspended while running on battery power.



2. Tap **Settings** > **Display** > **Screen timeout** to set the number of seconds without user input activity before the system is suspended while running on either battery power or external power.



If you use the **Screen timeout** page to set the auto-suspend timeouts, the **Display** page will display the **Suspend on internal battery** timeout if no external power is connected; if the device is connected to an external power source (USB or dock), it will display the **Suspend on external power** timeout.

Pocket-Mode

If enabled, the pocket mode setting uses the mobile device's proximity sensor to disable touch gestures and block the screen, fingerprint scanner, and power button. Its purpose is to prevent misoperation on the touch screen while the device is in your pocket.

Tap **Policy** to select the device behavior when pocket-mode is triggered by the proximity sensor.

Display Off

The display turns off, leaving the device in an unlocked state. When the proximity sensor no longer detects an obstruction, the display will turn on and the device will remain unlocked.

Progressive Lock

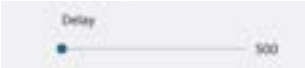
The display initially turns off. Then, after a period (defined by **Lock timeout** setting) without any new sensor change, it will enter suspend mode. When the proximity sensor no longer detects an obstruction, the display will turn on and the device will remain unlocked if the lock timeout has not elapsed; otherwise, the device will resume from suspend mode and will be locked or unlocked according to the screen lock configuration.

Device Lock

The display enters suspend mode (see "Suspend Mode" on page 20). When the proximity sensor no longer detects an obstruction, the device will resume from suspend state and will be locked or unlocked according to the screen lock configuration.

Delay

To prevent accidental activations, once a nearby object is detected, the Pocket-Mode will triggered after a brief delay. Drag the **Delay** slider to set the duration of the delay.



Lock timeout

If **Progressive Lock** is selected, sets the amount of time before the display enters suspend mode after any new sensor change.

Charging Policies

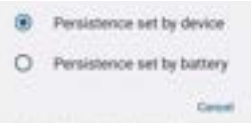
Battery Charging Profile

This setting allows to customize the charging process according to the user's needs and priorities.

You can configure up to 6 different charging profiles:

Battery Charging Profile Policy

- Select **Persistence set by device** to save the selected profile into the device memory.
- Select **Persistence set by battery** to save the selected profile into the battery memory



Off-Mode Charge

Controls how the charge behaves when the device is powered off.

Policy

Tap **Policy** to enable/disable auto power on.

Drag the **Threshold** slider to set the threshold for automatic start.

Charging Sources

Allows to select the charging source of your device.

Wake-Up Policies

The default wake-up sources are the side triggers, the pistol trigger and the PTT. Tap **Settings** > **Datalogic Settings** > **Power & sources** > **Wake-up sources** to enable/disable wake-up sources.

Desktop Mode

Desktop mode is a feature that allows you to connect your device to an external display.

Tap **Desktop mode policy** to set the desktop mode to:

- Mirrored screen
- External screen
- Dual screen.

Default is **External screen**.

Drag the **Hide task bar** slider to hide/show the task bar.

Wi-Fi

Wi-Fi Scan

Use the **Wi-Fi scan** Settings to set the interval between scans when the device is connected and when it is disconnetted.

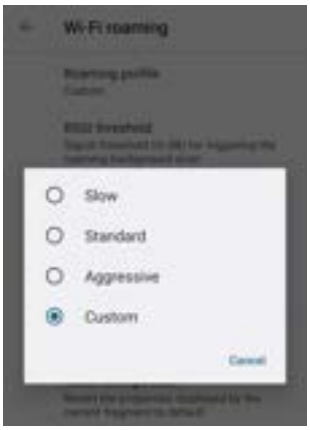
Wi-Fi Module

Use the **Wi-Fi module** settings to select the 802.11 mode and the band, and to enable/disable power save and the verbose Wi-Fi module logging.

If enabled, the verbose Wi-Fi module logging increases the Wi-Fi logging level for each wireless network (SSID) you connect to according to its relative received signal strength (RSSI).

Wi-Fi Roaming

Tap **Roaming profile** and select **Custom** to configure the roaming profile of your device.



RSSI Threshold

Sets the signal strength a radio needs to see before searching for another site.

RSSI Difference

It controls the signal difference between the current access point the device is connected to and the target access point the device wants to roam to. If the target AP signal is higher than the current by at least the value of this parameter, the device will roam.

Ethernet

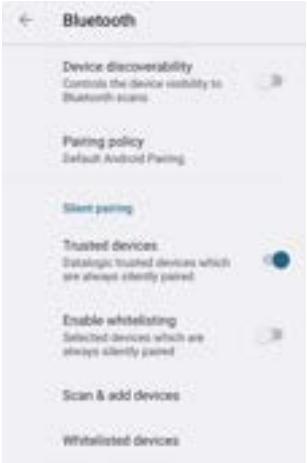
Use the Single Slot Charging/Communication Dock (available as an accessory, p/n 94A150123) or the 4-Slot Charging/Communication Dock (available as an accessory, p/n 94A150132) to connect your device to an Ethernet network (see "Ethernet Connection" on page 100).

To enable ethernet communication, tap **Datalogic Settings** > **Ethernet** and switch right to the on position.

Tap **Ethernet module** to configure the ethernet settings.

Bluetooth

Use the Datalogic Bluetooth settings to control the device visibility and set the pairing policy.



Device Discoverability

Enables/disables the device visibility to Bluetooth scans.

Pairing Policy

Tap to select one of the following options:

- Default Android Pairing
- Simple Pairing (requires user confirmation)
- Silent Pairing (no user confirmation)

Silent Pairing

Use the silent pairing settings to enable whitelisting, select and show the devices that can be silently paired.

USB

To enable/disable USB communication, tap

- **Datalogic Settings** > **USB** > **USB host data** when the device is host.
- **Datalogic Settings** > **USB** > **USB client data** when the device is client.

Use the **USB** settings to set the USB function (None, MTP, PTP, MIDI).

USB Host Whitelisting

USB host whitelisting is a security measure used to control and restrict the types of USB devices that can connect to a computer or network. By maintaining a whitelist, only approved and trusted devices are allowed access, thereby reducing the risk of unauthorized devices causing harm or accessing sensitive data.

There are two primary USB operational modes: USB Host and USB Client (or Device) mode. A device operating in Host mode manages the communication, provides power and initiate data transfers to connected USB devices. USB Client mode refers to the devices (often referred to as peripherals) that connect to a USB Host. In Client mode, the device waits for commands from the Host and responds accordingly, sending data when requested or receiving and processing data sent by the Host.

Each device in the list is identified by the following elements:

ID: device ID, displayed as VID:PID where VID/PID stand for vendor/product ID respectively

Name: name of the device

Description: description of the device

Persistence: indicates the persistence of the device's whitelist in memory.

The persistence levels are the following, in ascending order:

Reboot - Entries will persist through normal device reboots, but will be removed after an enterprise or factory reset

Enterprise reset - Entries will persist through normal device reboots and enterprise resets, but will be removed after a factory reset

Factory reset - Entries will persist through normal device reboots, enterprise resets, and factory resets, but could be removed with a change to the factory espresso package

Default - Entries with this level of persistence cannot be deleted.

Devices added via Configuration Manager or Datalogic Settings will always be set to the Reboot as persistence level. To modify the Enterprise reset or Factory reset persistence

level entries, an espresso package is required. Devices with the Default persistence level cannot be removed.

For USB host mode, you can create a list of approved USB devices that are allowed to connect to your device even if USB host data is set to OFF.

Tap **USB host whitelisting** to open the USB host whitelisting main page and display or edit this list.

The list in the main page shows the whitelisted devices and the connected devices (if USB host data is enabled).

Tap **Filter by:** to select the filter criteria:

- **All devices** - display both whitelisted and connected devices
- **Whitelisted only** - display only whitelisted devices
- **Not whitelisted** - display only connected devices

Tap the **+** button at the right bottom of the screen to add a device.

For each device in the list, the following details are shown:

ID: device ID, displayed as VID:PID where VID/PID stand for vendor/product ID respectively

Name: name of the device

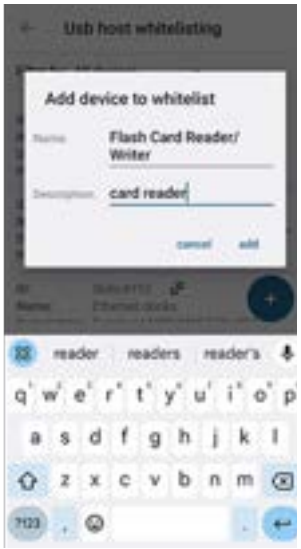
Description: description of the device

Persistence: indicates the persistence of the device's whitelist in memory

Connection icon: shows the connection status (connected/disconnected).

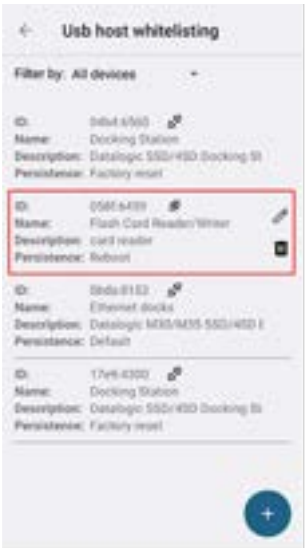
How to add/edit a connected device

To add a connected device to a whitelist (persistence level: Reboot) tap the + icon. A popup appears where you can enter the Name and the Description of the device you want to add. VID and PID are not editable.



Once a connected device is added to a whitelist, the **Usb host whitelisting** screen will display the new name and description, the persistence level, the **Edit** icon and the **Delete** icon.

Tap the **Edit** icon to change the Name and the Description of the whitelisted device. VID and PID are not editable.



Tap the **Delete** icon to remove the device from the whitelist.

NOTE: Name and Description are merely descriptive and can be changed at any time if the level of persistence is Reboot.

How to add a not connected device

Tap the + button at the right bottom of the screen to add a device to a whitelist, even if it is not connected.

A popup appears asking to enter valid VID and PID numbers. VID and PID are always in hexadecimal format between 0x0000 and 0xFFFF.

Name and Description are optional.

Once the device is added to a whitelist, its details will be displayed in the Usb host whitelisting screen.

NOTE: A peripheral device can only be added to one whitelist. To add it to a different whitelist, you need to remove it from the current one. Since devices added to whitelists with persistence levels Enterprise reset, Factory reset or Default cannot be edited, they cannot be moved to a Reboot whitelist via Configuration Manager or Datalogic Settings.

System

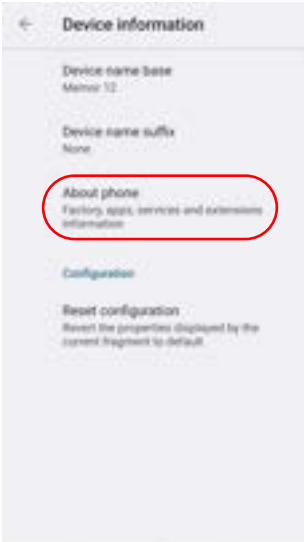
Tap **Virtual RAM Swap Policy** to enable/disable the virtual RAM.

NTP

Tap **NTP** to set the primary NTP server addresses and to configure the NTP timeout.

Device Information

The Device info screen displays information about the device including: serial number, scan engine, sdk, system versions.



UI/UX Settings

Use the UI/UX settings to customize user experience and modify preferences, options, and configurations to tailor the UX according your needs and preferences.

You can limit user actions and configure notification panel, tiles, enable/disable battery and notification LEDs, show/hide notification dots, status and navigation bars, enable/disable do not disturb mode and physical keyboard shortcuts.

Application Policies

Enables/disables the application policies notification and allows to associate the configuration policies to specific applications.

ANDROID SETTINGS

Network & Internet

Connect to Wi-Fi Network

1. To turn on/off the Wi-Fi, tap **Settings** > **Network & Internet** > **Internet** > **Wi-Fi**.

If the device finds a network that you connected to previously, it will connect to it automatically.
The device also scans for available Wi-Fi networks within range and lists them. Secured networks are indicated with a lock icon.

2. Select the network name you want to connect to from the available network list.

3. If the network is open, tap the profile and then tap **Connect**, or press and hold and then select **Connect**.

   If the network is secured, a dialog box appears requesting information relevant to the network security protocol (e.g., password, key, or certificate). Enter the required information, then tap **Connect**:

Add a Wi-Fi Network

1. Tap **Settings** > **Network & Internet** > **Internet** and verify that the Wi-Fi is turned on.

2. Tap **Add network** at the end of the available network list:

3. Enter the Network SSID (Wi-Fi network name). For secure Wi-Fi network connections, tap **None** under **Security**, and then select the type of security protocol required from the pop-up menu. Enter any additional security information required by the type of security protocol selected.

4. Tap **Save**.

To connect Wi-Fi with a QR code, tap the QR code icon and then scan the Wi-Fi QR Code to join the network.

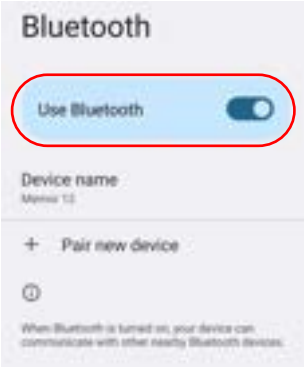
Connected Devices

Bluetooth Settings

To create a Bluetooth® pairing between your device and another device that has Bluetooth® capabilities, ensure that the two devices are turned on, discoverable, and within operable range.

Enable Bluetooth®

To enable/disable Bluetooth® connection, tap **Settings** > **Connected Devices** > **Connection preferences** > **Bluetooth** > **Use Bluetooth**.



Connect to Other Bluetooth® Devices

1. Tap **Pair new device**. The device automatically starts searching for discoverable devices.

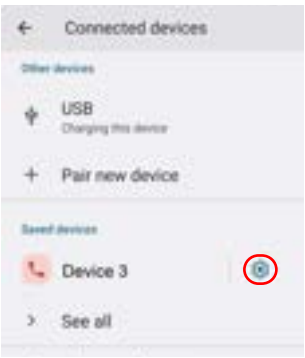
2. Swipe up the list and select a device. The **Bluetooth pairing request** dialog box displays on the screen:

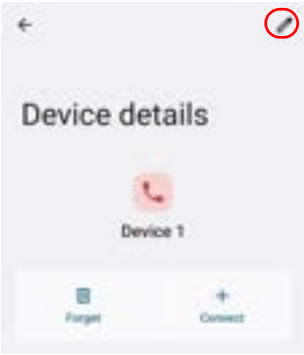
3. Make sure both devices show the same passkey and tap **Pair**.
4. The selected Bluetooth® device is added to the **Saved devices** list and a paired connection is established.

Configure, Rename or Unpair Bluetooth® Devices

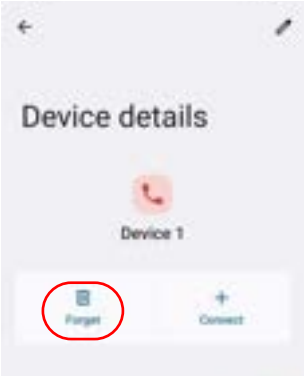
Tap **Settings** > **Connected devices**.

Select a device under **Saved devices** and tap the settings icon next to its name. The **Device Details** window displays on the screen. Type the **Edit** icon to rename the paired device.

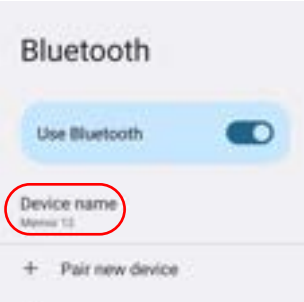




Tap **FORGET** to unpair:



To rename your device, tap **Settings** > **Connected Devices** > **Connection preferences** > **Bluetooth** > **Device name**. Type in the new name.



Tap **Rename** to confirm.

NFC

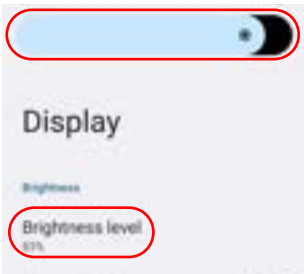
To enable/disable short-range wireless data exchange, tap **Settings** > **Connected Devices** > **Connection preferences** > **NFC** > **Use NFC**.

Display

Use the Display settings to set the screen brightness and theme, enable night light, change the screensaver, enable screen rotation, set display and font size.

Brightness Level

Tap **Brightness level** and use the slider at the top of the screen to adjust the screen brightness level.



Adaptive Brightness

If enabled, your screen brightness will automatically adjust to your environment.

Lock Screen

Tap to customize your lock screen.

Screen Timeout

Tap to set the suspend timeout (see "Suspend Timeout" on page 60).

Dark Theme

Tap to enable black background.

Display Size and Text

Tap to set the size of the items on your screen and to customize the font.

Night Light

Tap to enable Night Light and adjust its intensity.

Colors

Tap to adjust the color settings.

Auto-Rotate Screen

Enables/disables screen auto-rotation.

Screen Saver

Tap to select the screen saver, set the style and time (**When to start**).

System Update

Local Update

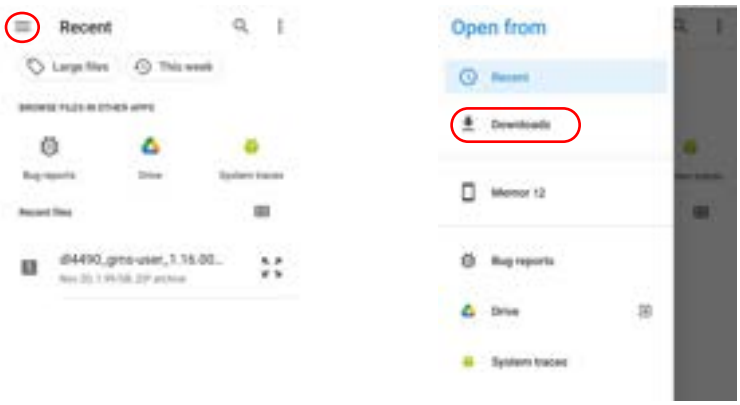
The A/B system update ensures a workable booting system remains on the disk during an over-the-air (OTA) update. OTA updates can occur while the system is running, without interrupting the user. Users can continue to use their devices during an OTA, the only downtime during an update is when the device reboots into the updated disk partition.

To transfer the OTA package from your PC to the Memor 12/17, follow the steps below:

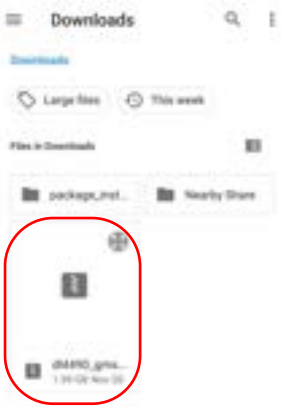
1. Connect the device and the PC via USB cable (see "USB Connection" on page 98);
2. Copy the OTA package to the device **Download** folder;

From the **Settings** menu, tap **System** > **System Update** > **Local Update**.

Tap the menu icon on the top left corner of the screen and then tap **Downloads**.



Select the update package you want to install.



NOTE: The OTA package would be also available if copied into another folder. You just need to select the right folder.

The following window displays on screen, showing information about the device and the update package components:

The **PROPERTIES** section shows information about the device model and OS version and the update package version.

The **ACTIONS** section allows to:

- reset the device configuration after the update (see "Reset the Device" on page 26).
- force the update of all components, including those already updated.

Tap **Install Update**. The device will reboot and a success notification will be displayed. Tap the notification to display a report showing the installed update components.

NOTE: During the update, ensure that:

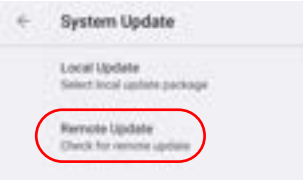
- **battery level is more than 20% if the Memor 12/17 is not connected to a power source;**

or

- **battery level is more than 15% if the Memor 12/17 is connected to a power source (USB or dock).**

Remote Update

From the **Settings** menu, tap **System** > **System Update** > **Remote Update**.



Tap **Check for update**.

RECOVERY MODE

Recovery is an independent, runtime environment that's included on a separate bootable partition from the main Android OS. It contains tools to help repair your installations as well as install official OS updates by using a combination of key presses. Its main purpose is to reset the device, wipe data or perform system updates when the system crashes and the screen is unresponsive.

To enter Recovery Mode when the device is turned on:

1. Press and hold the Power key until the Long Press Menu menu displays.
2. Press and hold the Volume up key.
3. Select Restart while holding the Volume up key.
4. The device restarts in Recovery Mode.
5. Use the volume up/down keys to navigate the menu. Press the Power key to select.
6. You can apply updates and perform a configuration reset.
7. Select **Reboot system now**. The device reboot is complete.

To enter Recovery Mode when the device is turned off:

1. Press and hold the Volume up key.
2. Press the Power key and release it as soon as the device vibrates while holding the Volume up key.
3. The device turns on in Recovery Mode.
4. Use the volume up/down keys to navigate the menu. Press the Power key to select.
5. You can apply updates and perform a configuration reset.
6. Select **Reboot system now**. The device reboot is complete.

NOTE: In Recovery mode, you can only apply updates from external storage (see "Local Update" on page 79).

DATALOGIC UTILITIES

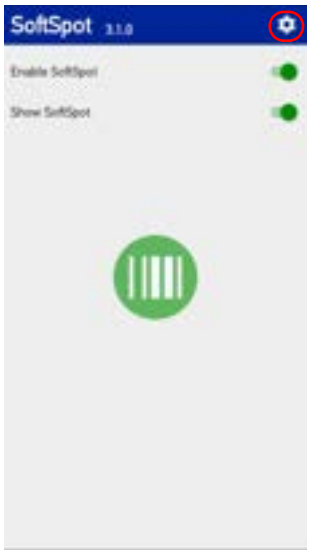
SOFTSPOT™

Datalogic's SoftSpot technology is a user-definable "floating soft trigger" meant to provide easy access to the barcode scanner application and other frequently used functionalities on mobile scanning devices.

Tap the **SoftSpot** icon on the favorites tray or on the All Apps screen to enable the **SoftSpot**.

Tap **Show SoftSpot** to show the SoftSpot trigger on your screen.

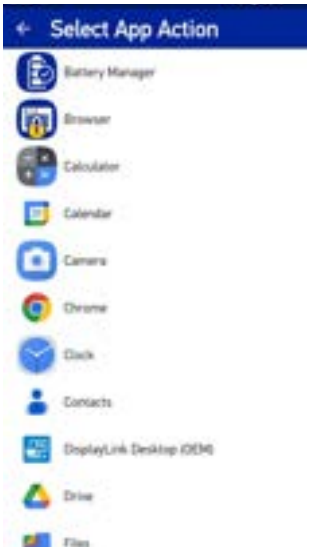
Tap the Settings icon on the top right corner to configure the SoftSpot settings.



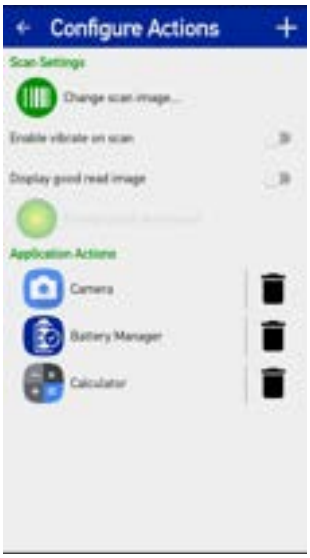
Configure Actions

You can use SoftSpot to quickly switch between the applications you actively use.

From the SoftSpot settings screen, tap **Configure Actions** > **+** to add the applications you want to launch with SoftSpot.



Only one action is active at a given moment. Tap the SoftSpot to launch the application. You can switch between actions by swiping left and right on the SoftSpot.



To remove an application from the actions list, tap the trash bin icon on its right.

You can also use the **Configure Actions** screen to change the SoftSpot image, to display and change the good read image and to enable the vibrator.

SoftSpot Appearance

Tap **SoftSpot Appearance** and drag the **Visibility** slider to set the SoftSpot transparency level.

Pinch to change the SoftSpot size.

Flag the **Lock position** checkbox to lock the position of the SoftSpot on your screen.

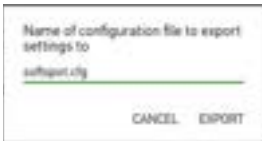
SoftSpot Operation

Tap SoftSpot Operation to:

- Enables SoftSpot on boot.
- Enables the swipe up to hide feature, that allows to hide the SoftSpot from the screen by swiping it up in the Notification/Status bar.

Export to File

Allows to export your settings to a configuration file.



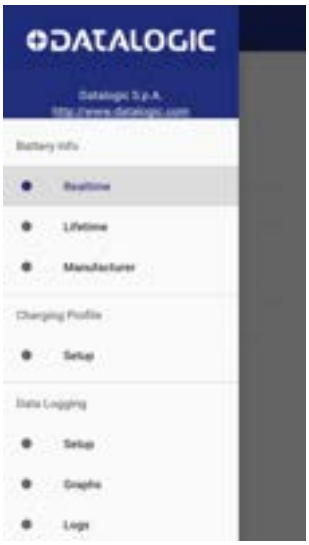
Reset Settings

Resets SoftSpot settings to default.

BATTERY MANAGER

This application provides information about the battery features and status, allows to configure the battery charging profile and to log battery data.

Tap the **Battery Manager** icon, then tap the menu icon on the top left corner of the screen, or swipe right to display the menu.



Battery Info

The **Battery Info** section provides information about the battery's health, capacity, manufacturer, level and charging status.

Battery Info - Realtime

This window provides real-time information about the battery.

Discharging Mode

Charging Mode

The top section shows the battery level.

Status

Displays the charging status.

Source

Displays the charging source.

Temperature

Displays the real-time temperature.

Voltage

Displays the real-time voltage.

Current

Displays the real-time current.

Battery Info - Lifetime

This window displays information and statistics about battery life, health and usage over its whole life cycle.

Health

Shows the current battery health and warns potential errors.

State of Health

Shows the current battery's health level.

Charge Cycles

Number of charge cycles completed.

Total Discharge

Shows how much the battery has been used over its whole life cycle.

Temperature

Shows the maximum and minimum temperature reached by the battery.

Voltage

Shows the maximum and minimum voltage reached by the battery.

Charge Current

Shows the maximum charge current.

Discharge Current

Shows the maximum discharge current.

Battery Info - Manufacturer

This window displays the model name, the type, the nominal capacity, the serial number, the product number, the firmware version, and the manufacture date of the battery.

Charging Profile

Charging Profile - Setup

This window allows to customize the charging process according to the user's needs and priorities.

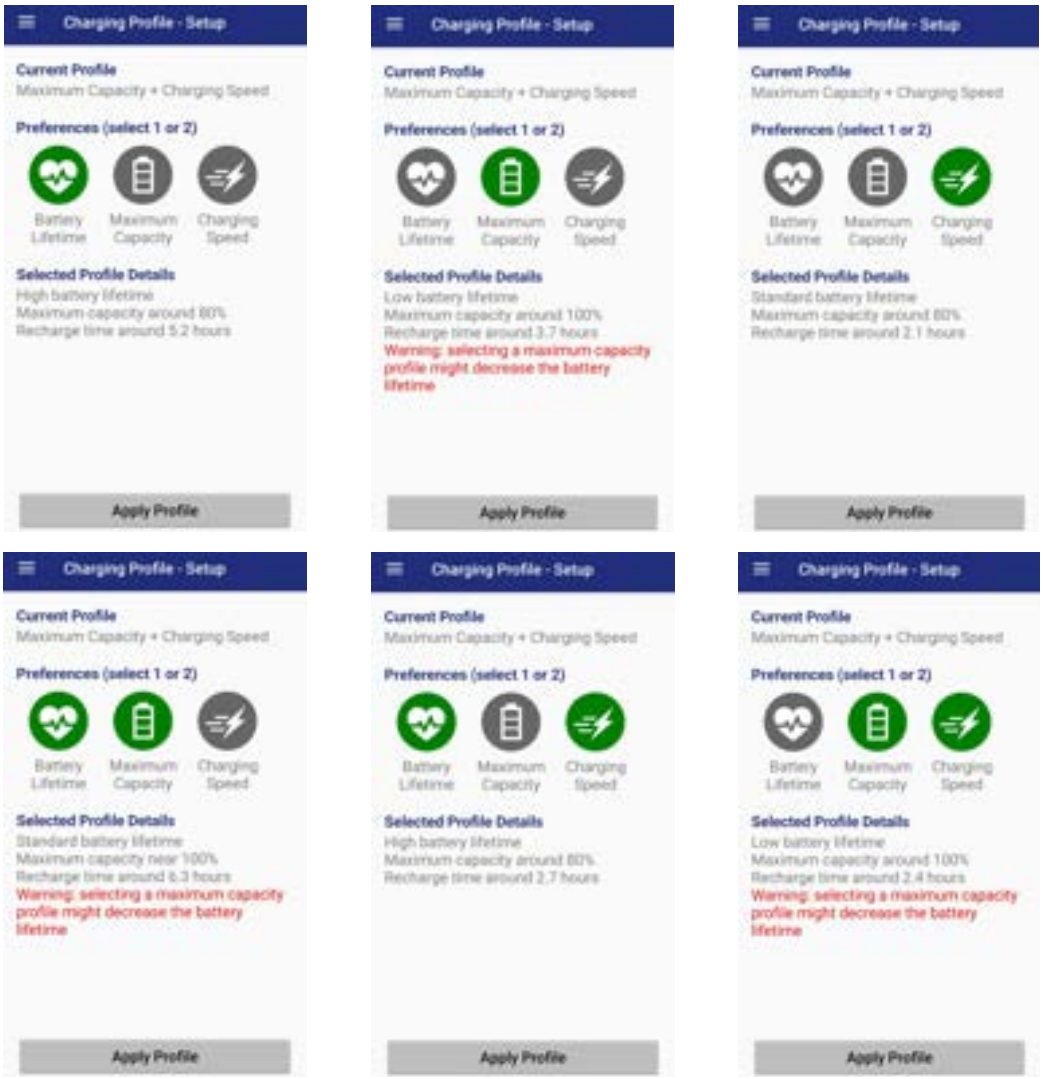
To configure a charging profile, select 1 or 2 of the following preferences:

- Battery Lifetime.
- Maximum Capacity.
- Charging Speed.

If a third preference is selected, the system will automatically clear the oldest option.

Tap **Apply Profile** to confirm.

You can configure up to 6 different charging profiles:



Once you have set your profile, it will be applied by default whenever you charge the device.

NOTE: The selected profile is saved into the device memory. When the battery is replaced, the device applies the current profile from the device memory.

You can change your profile at any time, even during charging.

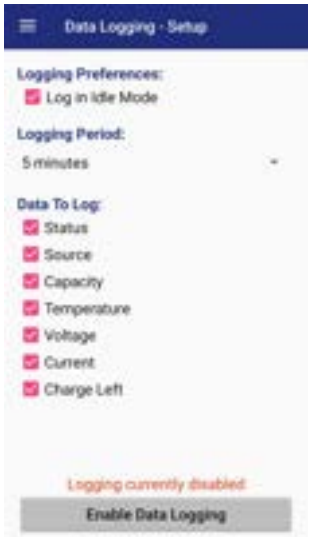
Data Logging

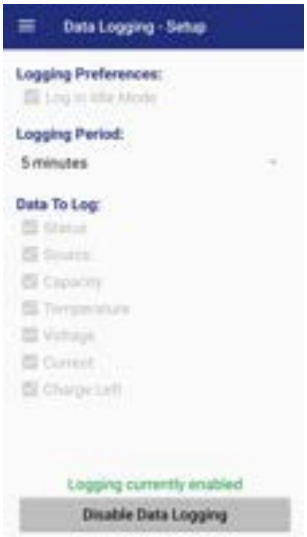
The data logging feature allows to collect, store, display and analyze minute-by-minute battery data.

Setup

Use the **Setup** window to select the data you want to log.

The data logging is disabled by default. To enable it, tap **Enable Data Logging**. When enabled, the log is always running, even when the device is in suspend mode.

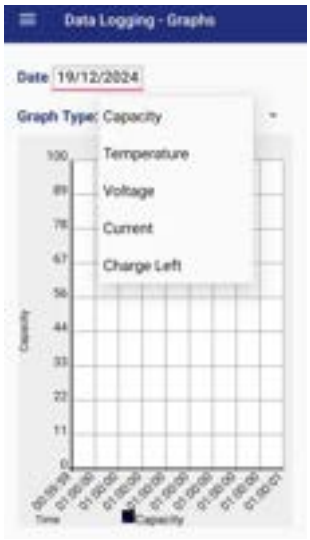




Graphs

The **Graphs** window provides a graphical display of selected data on a specific date.

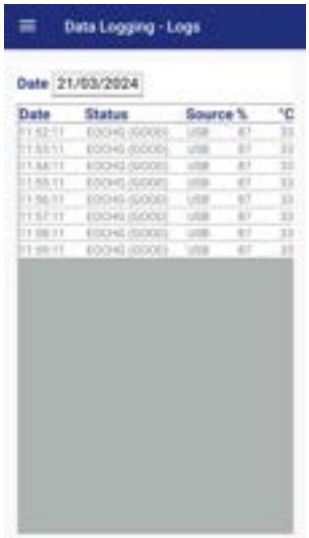
Select Date



Select Data

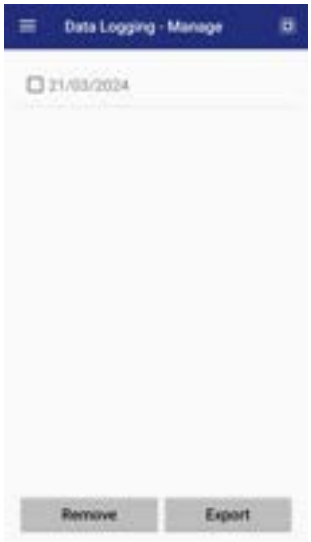
Logs

The **Logs** window displays data details by date.

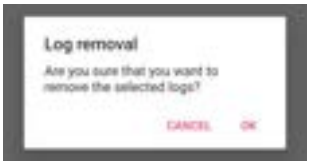


Manage

The **Manage** window allows to remove or export logs.



Select one or more logs and tap **Remove** to remove them. Tap **OK** to confirm:



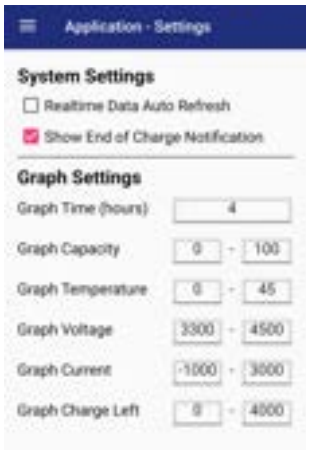
Select one or more logs and tap **Export** to export data and store them for extended periods.

The selected log files will be saved in the "battery" folder in the internal storage of your device.

Application

Settings

The **Settings** section allows to set the value ranges that will be used to create the graphs.



Info

The **Info** section displays information about the device name and the software version.

DATALOGIC WIFI GUARD

Datalogic WiFi Guard is an Android application designed to collect information on a Wi-Fi network. It also contains tools to assist in improving network performance and diagnosing connection problems. It comes pre-installed on the device and is not available for download.

For more details, visit the website: https://datalogic.github.io/wifiguard/overview.

DATALOGIC LOGGER

Datalogic Logger is an Android application designed to collect information logged by various software components to assist in diagnosing issues. Once started, it runs in the background with minimal impact to device performance. When complete, an archive of the results is generated, which can be exported from the device for further study. It comes pre-installed on the device and is not available for download.

For more details, visit the website: https://datalogic.github.io/logger/overview.

DATALOGIC TOOLS

Refer to the Datalogic Mobile Computers Software Tools main page to find more detailed and up-to-date information: https://datalogic.github.io/.

USB ADB DRIVER

USB connection allows to read and write files on both the internal storage memory and the external storage memory, but doesn't allow to install applications.

Android Debug Bridge (ADB) is a command-line utility included with Google's Android SDK and you can use it to control your device over USB from a computer, copy files back and forth, install and uninstall apps and run shell commands.

SDK ADD-ON

SDK add-on is a library which extends the Android SDK and development tools.

For more information and instructions to install SDK Add-on, Android™ Studio and Android SDK, visit the website https://datalogic.github.io/android/overview.

Install ADB Driver

1. Download and install the Google USB Driver (see https://developer.android.com for further information).

NOTE: Before installing the Google USB Driver, ensure you have installed the Datalogic plug-in.

2. In order to use ADB with your device connected over USB, you must enable USB debugging in the device system settings. To enable Android **Developer options**, go to **Settings** > **About phone** and tap on the **Build Number** section 7 times. After the 7th tap, the Developer options will be unlocked and available. Go back to **Settings** > **System** and tap **Developer options**. Enable **USB debugging**:

Create a New Application based on Datalogic SDK Add-on with Android Studio

For information and instructions to configure Datalogic SDK Add-on in Android Studio, refer to the website: https://datalogic.github.io/android/overview.

DATALOGIC SDK

For information on the Datalogic SDK APIs, visit the web site: https://datalogic.github.io/android/overview.

DATALOGIC OEMCONFIG

OEMConfig is a new Android standard that enables device manufacturers to create custom device features that can be immediately and universally supported by enterprise mobility management (EMM platforms). Instead of integrating enterprise APIs from each OEM to support their custom features such as control of barcode scanners or enabling extra security features, EMMs can easily use an OEM-built application that configures all of the unique capabilities of a device.

OEMConfig utilizes a feature in Android Enterprise called managed configurations, which allows developers to provide built-in support for the configuration of apps. With OEMConfig, EMMs can support all of a device manufacturer's diverse set of controls without any incremental development work on their end.

For more details, visit the website: https://datalogic.github.io/oemconfig.

WI-FI QR CODE GENERATOR

Allows to generate a QR code that will automatically connect your device to a Wi-Fi network when scanned.

For more details, visit the website: https://datalogic.github.io/wifiqr.

SCAN2DEPLOY

Scan2Deploy is a configuration tool that uses special barcode labels.

For more details, visit the website: https://datalogic.github.io/scan2deploy.

DATALOGIC LAUNCHER

Datalogic Launcher is an Android application used to lock down the device to launch only allowed applications. It can also limit access to several system device features, such as the Overview button (for switching apps) and the Global Actions dialog (for restarting the device). Once started, it behaves as the device Home screen (when you tap the Home button).

For more details, visit the website: https://datalogic.github.io/launcher/overview.

DATALOGIC ENTERPRISE BROWSER

Datalogic Enterprise Browser is an Android application used for web browsing to only allowed websites. It also includes a JavaScript interface which exposes access to the barcode scanner. These features combine to allow the device to run web-based applications which need to access the scanner in a safe, controlled environment.

For more details, visit the website: https://datalogic.github.io/browser/overview.

DATA CAPTURE

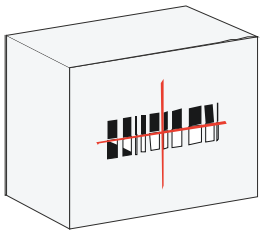
The Memor 12/17 embeds the new Datalogic Halogen™ DE2121-DL scan engine.

DeepSight™ integrated technology provides superior sensitivity and high visible illumination system, guaranteeing first-class reading performances even in extreme light and dark environment conditions. Its outstanding motion tolerance allows to decode poorly printed barcodes as well as barcodes displayed on mobile devices and LCD screens.

See "Scanner & Decoder" on page 30 for instructions on configuring the scanner settings.

To scan a barcode symbol:

1. Point the scan window at the barcode from a distance within the reading range.
2. Press one of the scan triggers. The imager projects a red laser aiming cross that is used to position the barcode or object within the field of view.



3. Center the symbol in any orientation within the aiming pattern. Ensure the entire symbol is within the rectangular area formed by the brackets in the aiming pattern, then either wait for the timeout or release the scan trigger to capture the image. A red beam illuminates the symbol, which is captured and decoded.

Linear Bar Code

2D Matrix Symbol

If the scan has been successful:

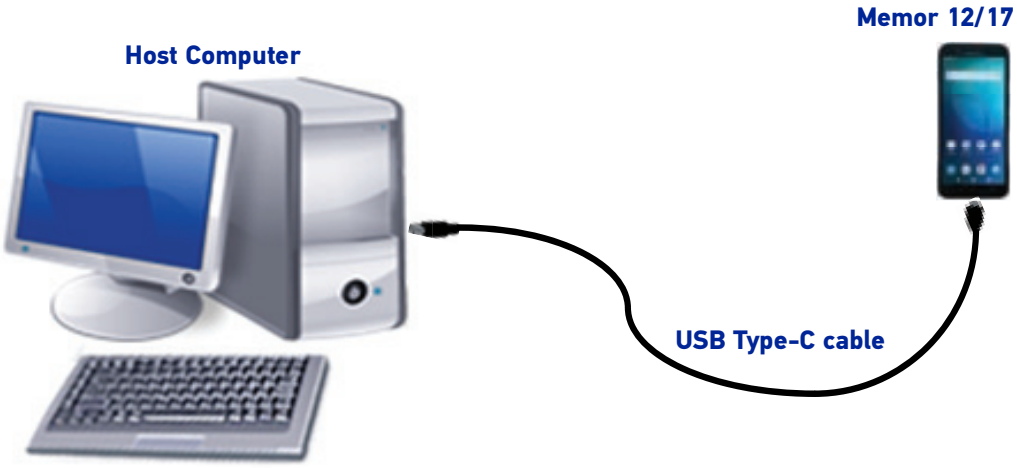
- If enabled, the good read beep plays.
- If enabled, the GreenSpot projects a green spot onto the barcode image.
- If enabled, the notification LED glows solid green.

CONNECTIONS

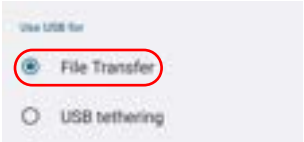
USB CONNECTION

USB Direct Connection

You can use a standard USB Type-C cable (not included in the box) to directly connect the Memor 12/17 to a host computer and transfer data through the USB interface.



1. Turn on the Memor 12/17.
2. Turn on the host computer.
3. Connect the device to the host PC via USB cable.
4. Scroll down the notification bar, tap the charging notification and change to **File Transfer**.

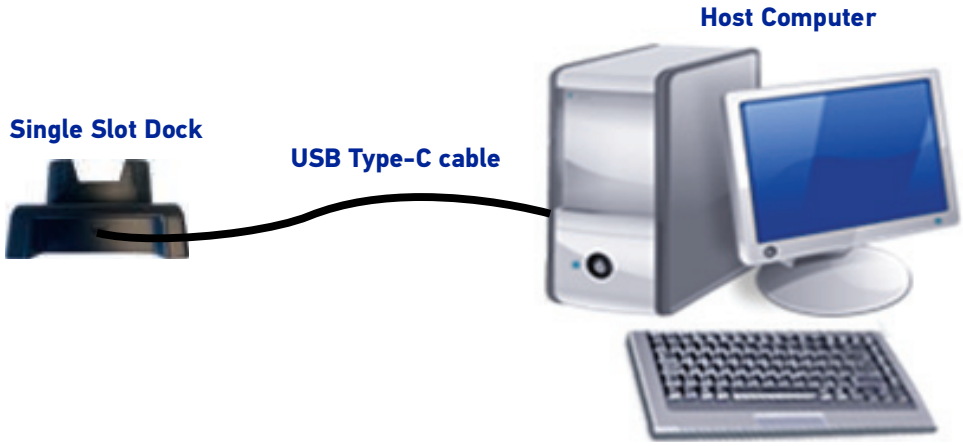


5. The device is now visible in your PC as a USB disk. You can start the data transfer.

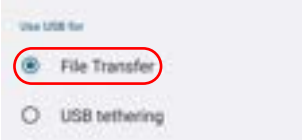
NOTE: Connection through the cable complies to USB Type-C standard.

USB Dock Connection

You can use a standard USB Type-C cable (not included in the box) to directly connect the dock to a host computer and transfer data through the USB interface.



1. Turn on the host computer.
2. Connect the dock to the host computer by means of a standard USB type-C cable.
3. Turn on the Memor 12/17.
4. Insert the Memor 12/17 into the dock.
5. Scroll down the notification bar, tap the charging notification and change to **File Transfer**.



6. The device is now visible in your PC as a USB disk. You can start the data transfer.

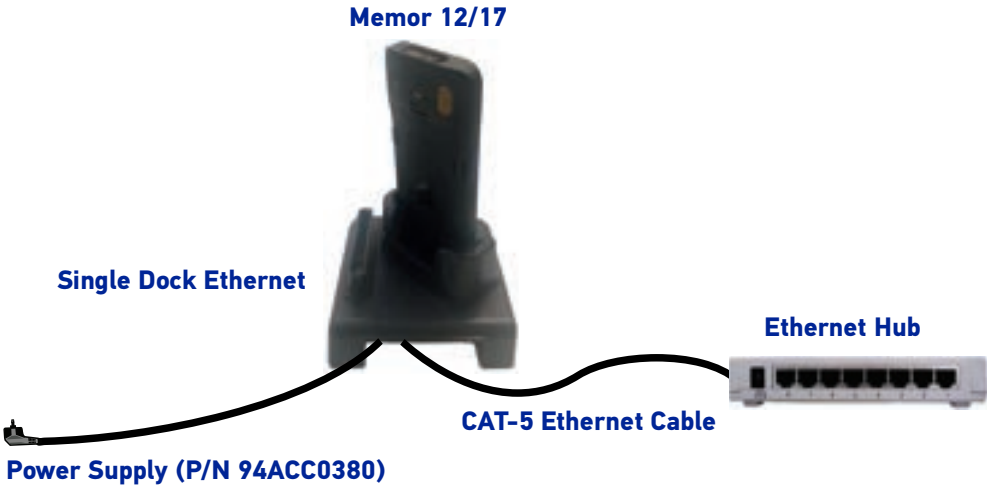
NOTE: When the device is inserted into the dock, all ongoing USB connections shall be kept until the corresponding port is unplugged.

ETHERNET CONNECTION

Use the Single Slot Charging/Communication Dock (available as an accessory, p/n 94A150123) or the 4-Slot Charging/Communication Dock (available as an accessory, p/n 94A150132) to build a reading system for the collection, decoding and transmission of barcoded data.

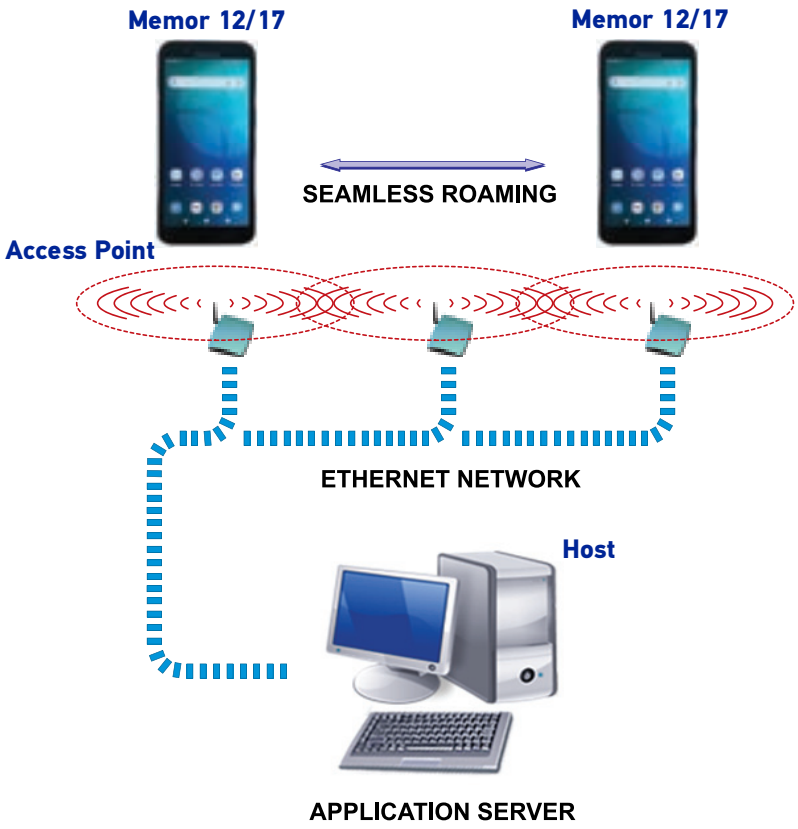
Ethernet Dock Connection

1. Connect the dock to the power supply (available as an accessory, p/n 94ACC0380).
2. Plug a CAT-5 ethernet cable into the ethernet port on the back of the dock.
3. Plug the ethernet cable into the ethernet hub or a port on the host device.
4. Insert the Memor 12/17 into the dock.



WI-FI CONNECTION

The Memor 12/17 has a Wi-Fi 6e WLAN (Wireless Local Area Network) radio and can communicate with other Wi-Fi compliant products including access points, workstations via PC card adapters and other wireless portable devices.



NOTE: Area coverage and radio performance may vary, due to environmental conditions, access point types or interference caused by other devices (microwave ovens, radio transmitters, etc.).

WWAN CONNECTION

The Memor 17 enhances your connectivity solutions giving you an opening to an international wireless infrastructure that is the global standard. It is optimized for the following two-way communications:

- Voice: voice data (including VoLTE, VoNR and Wi-Fi calling)
- Data: Available speed depends on the wireless network carrier and their supported packet-data technology in addition to network conditions.

The Memor 17 supports the following 2G bands:

- EU (ROW): GSM Quad band;
- NA: GSM 850/1900 MHz.

The Memor 17 supports the following 3G bands:

- EU (ROW): WCDMA B1/2/4/5/8;
- NA: WCDMA B2/4/5.

The Memor 17 supports the following LTE bands:

- EU (ROW): FDD_LTE: B1/2/3/4/5/7/8/17/19/20/25/28/66; B34/38/39/40/41/42/43;
- NA: FDD_LTE: B2/4/5/7/12/13/17/19/25/26/29/30/66; TDD_LTE: B38/41/48.

The Memor 17 supports the following 5G bands:

- EU (ROW): 5G n1/2/3/5/7/8/20/25/28/38/40/41/66/71/77/78;
- NA: N2/5/7/12/13/14/25/26/29/30/38/41/48/66/77/79.

Private networks supported.

In order to use a WWAN Connection you have to install a SIM Card (See "Getting Started" on page 19).

NOTE: Area coverage and cellular performance may vary, due to environmental conditions, tower/ base station types or interference caused by other devices (microwave ovens, radio transmitters, etc.).

BLUETOOTH® SERIAL CONNECTION

The Memor 12/17 can communicate with a Bluetooth® device, such as a printer, within a range of 10 m, using the on-board Bluetooth® module.

NOTE: In order to extend battery life, the Bluetooth® module is off by default. If you need to have Bluetooth® working, the module must be powered on (see "Bluetooth Settings" on page 74).

Area coverage and Bluetooth® radio performance may vary, due to environmental conditions or interference caused by other devices (microwave ovens, radio transmitters, etc.).

NEAR FIELD COMMUNICATION (NFC)

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

Memor 12/17 support the following modes of operation:

- NFC tag reader/writer mode: the terminal reads and/or writes digital information from or to an NFC tag.
- NFC card emulation mode - The terminal emulates an NFC card (smart card) that an external card reader can access.

Read NFC Tags

1. Make sure NFC is enabled (see "NFC" on page 76).
2. Hold the NFC tag close to the back of the terminal.
3. When an NFC tag is recognized, the terminal emits a sound and the tag data displays on the terminal screen.

NOTE: Suspend mode and the screen lock temporarily turns the NFC radio off.

WIRELESS AND RADIO FREQUENCIES WARNINGS

WARNING; Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals generated by Memor 12/17.

Datalogic recommends persons with pacemakers or other medical devices to follow the same recommendations provided by Health Industry Manufacturers Associations for mobile computers.

Persons with pacemakers:

- **Should ALWAYS keep this device more than twenty five (25) cm from their pacemaker and/or any other medical device;**
- **Should not carry this device in a breast pocket;**
- **Should keep the device at the opposite side of the pacemaker and/or any other medical device;**
- **Should turn this device OFF or move it immediately AWAY if there is any reason to suspect that interference is taking place.**
- **Should ALWAYS read pacemaker or any other medical device guides or should consult the manufacturer of the medical device to determine if it is adequately shielded from external RF energy.**

In case of doubt concerning the use of wireless devices with an implanted medical device, contact your doctor.

Turn this device OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may use equipment that could be sensitive to external RF energy.

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.

An air bag inflates with great force. DO NOT place objects, including either installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If a vehicle's wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Turn off the device when in any area with a potentially explosive atmosphere. Observe restrictions and follow closely any laws, regulations, warnings and best practices on the use of radio equipment near fuel storage areas or fuel distribution areas, chemical plants or where any operation involves use of explosive materials.

Do not store or carry flammable liquids, explosive gases or materials with the device or its parts or accessories.

Areas with a potentially explosive atmosphere are often, but not always, clearly marked or shown.

Sparks in such areas could cause an explosion or fire, resulting in injury or even death.

TECHNICAL FEATURES

TECHNICAL DATA

ITEM	DESCRIPTION
PHYSICAL CHARACTERISTICS	
Dimensions	165 x 76.7 x 13.5 mm / 6.49 x 3.0 x 0.53 in
Weight	With Battery: 242 g/8.5 oz
Primary Display	6.0 inch LTPS in 18:9 format - FHD+ resolution 1080x2160; LED backlight; 450 NITS
Touch Panel	Touch Screen: 5 points multi-touch capacitive panel with hardened Gorilla Glass 7 and optical bonding; Support for gloves and stylus; water drops rejection and antifingerprint surface finishing
Keys	Physical Keys: 2 side scan keys; PTT; Power On/Off; Volume Up/ Down; 3 Android soft keys
ELECTRICAL	
Battery	1-piece swappable battery pack with rechargeable Li-Ion batteries; 3.87V; 4,000 mAh typical (14.98 Watt-hours); 'Safe Swap' for application data protection available on Memor 17 only
Wireless Charging	WPC Qi EPP compliant; 7W charging
SENSORS	
Vibration	Software programmable for duration and intensity
Accelerometer	3-Axis accelerometer to detect orientation
Gyroscope	Senses angular velocity
Ambient Light	Auto adjusts display backlight
Proximity	Auto deactivates display when close to face
Magnetometer	E-compass for direction and orientation detection
Barometer	Atmospheric pressure / Z-location (Memor 17 only)

ITEM	DESCRIPTION
ENVIRONMENTAL	
Drop Resistance	Multiple 1.3/4ft drops to concrete across operative temperature without rubber boot per enterprise standard according to MIL STD 810H. Multiple 1.5m/6ft drops to concrete over operating temp (-10°C to 50°C/14°F to 122°F) with rubber boot according to MIL STD 810H
Tumbles	500 0,5m/1.6 ft tumbles at room temperature without protective boot, meets and exceed IEC 60068-2-32 Procedure 2 specification. 500 1m/3.2 ft tumbles at room temperature with rubber boot, meets and exceed IEC 60068-2-32 Procedure 2 specification
Sealing	IP65 and IP68 with battery, per IEC60529 specification
Chemical Resistance	General purpose chemical cleansers: "Water solution of Sodium Hypochlorite" "Windex Multisurface / Glassex with ammonia" "Formula 409, Glass and Surface cleaner / Glassex with ammonia" "Ethyl alcohol" "Isopropyl alcohol" "Hydrogen peroxide" Healthcare chemical cleansers: Sani-Cloth® HB, Sani-Cloth® Plus, Super Sani-Cloth® Hepacide Quat II Isopropyl alcohol 70% (IPA) / Alcohol Wipes 70% CaviWipesTM Virex® 256 Glassex with ammonia / Formula 409® Glass and Surface Cleaner Glassex with ammonia / Windex® Water solution of Sodium Hypochlorite 0,8% / Clorox® Bleach 100% Gentle dish soap and water
Temperature	Operating: -10 to 50 °C / 14 to 122 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F
ESD	15kV air discharge / 8kV contact discharge
SYSTEM	
SIM Slots	1 Nano SIM; 1 eSIM
Expansion Slots	1 Micro SD card (up to 2 TB)
Memory	System RAM: 6GB (on-chip) or 8GB (6GB on chip plus optional 2GB Swap Memory using flash storage as extra RAM, activated through a setting) UFS Flash Storage: 64 GB or 128 GB
Microprocessor	Qualcomm QCx4490 Octa-core 2.4 GHz
Operating System	Android v13 & v15 GMS options (platform upgradeable to Android 18)
Real-Time Clock	Time and date stamping under software control

ITEM	DESCRIPTION
INTERFACES	
Interfaces	High Speed USB 3.2 gen1 Host and Client (Type-C); Super Speed USB 2.0 (Type-C, Bottom I/O)
AUDIO	
Microphones	2 mics, with noise cancellation
Loudspeaker	Speaker for handsfree calls and audio application
Receiver	Speaker for voice calls
WIRELESS COMMUNICATIONS	
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,5 GHz 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 1/2/3/4/5 (ISO14443-4 A/B; ISO15693; Mifare; Felica) Card emulator. Contactless payments and Apple ECP protocol supported.
WWAN/Cellular (Memor 17 only)	LTE-Advanced / 4G+; NR 5G FR1; 3GPP Rel.16; • **EMEA and ROW Configuration**: GSM: Quad band; WCDMA: B1/2/4/5/8; FDD_LTE: B1/2/3/4/5/7/8/17/19/20/25/28/66; B34/38/39/40/41/42/43; 5G: n1/2/3/5/7/8/20/25/28/38/40/41/66/77/78/79; • **North America Configuration** (AT&T and Verizon certified): GSM: 850/1900; WCDMA: B2/4/5; FDD_LTE: B2/4/5/7/12/13/17/19/25/26/29/30/66; TDD_LTE: B38/41/48; 5G: N2/5/7/12/13/25/26/29/30/38/41/66/71/77; • VoLTE, VoNR and Wi-Fi calling enabled
Global Positioning System (GPS)	Integrated Assisted-GPS (A-GPS) Supported Types: GPS Dual Band, Galileo Dual Band, BeiDou Dual Band
READING PERFORMANCE	
Camera	Rear Camera: Resolution: 13 megapixel; Auto focus Illumination: User controllable LED flash (torch mode); Front Camera: Resolution: 8 megapixel; Fixed focus
Scan Engine	Halogen™ DE2121-DL 1D/2D scan engine; Datalogic's 'Green Spot' for good-read feedback;

ITEM	DESCRIPTION
SOFTWARE	
Datalogic Mobility Suite - Discover more on: datalogic.github.io	
Protection	Shield - Android Security Updates Launcher – to lockdown device to kiosk mode Enterprise Browser - to web-browse only to a set of approved URLs Integrity KIT - to safeguard HW interfaces
Configuration	Scan2Deploy Studio – to configure and stage devices OEMConfig – for UEM/EMM Compatibility AE QR Code Enrollment – for easy EMM/UEM enrollment
Development	SDKs (Java, Kotlin, Xamarin, NET MAUI JavaScript) Visual Formatter – a no-code platform for barcode formatting Wedge – a configurable barcode scanning input method
Optimization	SoftSpot – a draggable touch scanner trigger Logger – to collect advanced device events log Wi-Fi Guard – to collect Wi-Fi data and statistics Battery Manager – to select from different charging policies QuickBoard: A customizable enterprise virtual keyboard designed to enhance productivity and adapt to specific application contexts Snap OCR: Rear or scanner camera digitizes text, streamlining data entry and label parsing
Additional Features	
Provisioning	Android Zero-Touch, Android Enterprise QR Code, NFC Bump, EMM Token, DPC Identifier enrollment
UEM/EMM	SOTI MobiControl, VMWare Workspace One, Microsoft Intune, 42Gears SureMDM, Ivanti Neurons, Ivanti Avalanche, 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

TEST CODES

High Density Codes - 0.25 mm (10 mils)
Code 39 17162
Interleaved 2/5 0123456784
Code 128 test
80% EAN 13 8 012345 000012
80% EAN 8 6450 9723

Medium Density Codes - 0.38 mm (15 mils)
Code 39 17162
Interleaved 2/5 0123456784
Code 128 test
100% EAN 13 8 012345 000012
100% EAN 8 6450 9723

Low Density Codes - 0.50 mm (20 mils)
Code 39 17162
Interleaved 2/5 0123456784
Code 128 test
120% EAN 13 8 012345 000012
120% EAN 8 6450 9723

2D Codes
Datamatrix ECC200   Example
Inverse Datamatrix ECC200   Example

MAINTENANCE

CLEANING

Periodically clean the Memor 12/17 device and the docks using a soft cloth slightly dampened with only water, or one of the following allowed cleaning agents:

- Water solution of Sodium Hypochlorite 0,8%
- Windex Multisurface / Glassex with ammonia
- Formula 409, Glass and Surface cleaner / Glassex with ammonia
- Ethyl alcohol 70%
- Isopropyl alcohol 70%
- Hydrogen peroxide 3%.

Do not use any other cleaning agents (e.g. different alcohol, abrasive or corrosive products, solvents) or abrasive pads to clean the device.

Do not spray or pour liquids directly onto the device.

The device is IP65 waterproof.

ERGONOMIC RECOMMENDATIONS

CAUTION: In order to avoid or minimize the potential risk of ergonomic injury follow the recommendations below. Consult with your local Health & Safety Manager to ensure that you are adhering to your company's safety programs to prevent employee injury.

- Reduce or eliminate repetitive motion
- Maintain a natural position
- Reduce or eliminate excessive force
- Keep objects that are used frequently within easy reach
- Perform tasks at correct heights
- Reduce or eliminate vibration
- Reduce or eliminate direct pressure
- Provide adjustable workstations
- Provide adequate clearance
- Provide a suitable working environment
- Improve work procedures.

SAFETY AND REGULATORY INFORMATION

NOTE: Read carefully the Memor 12/17 User Manual before performing any type of connection to the Memor 12/17.

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

- Before using the device and the battery pack, read carefully the chapter "Battery" on page 10.
- Use only the components and accessories supplied by the manufacturer for the specific Memor 12/17 being used.
- Do not attempt to disassemble the Memor 12/17 PDA, as it does not contain parts that can be repaired by the user. Any tampering will invalidate the warranty.
- When replacing the battery pack or at the end of the operative life of the Memor 12/17 PDA, disposal must be performed in compliance with the laws in force in your jurisdiction.
- Do not submerge the Memor 12/17 in liquid products.
- For further information or support, refer to this manual and to the Datalogic web site: www.datalogic.com.

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

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.

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.

REFERENCE DOCUMENTATION

For further information regarding Memor 12/17 refer to the SDK Help on-line and to the Memor 12/17 User's Manual, downloadable from our developer portal: https://developer.datalogic.com/mobile-computers.

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.

THE DATALOGIC WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER WRITTEN, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. DATALOGIC SHALL NOT BE LIABLE FOR ANY DAMAGES SUSTAINED BY BUYER ARISING FROM DELAYS IN THE REPLACEMENT OR REPAIR OF PRODUCTS UNDER THE ABOVE. THE REMEDY SET FORTH IN THE WARRANTY STATEMENT IS THE BUYER’S SOLE AND EXCLUSIVE REMEDY FOR WARRANTY CLAIMS. NO EXTENSION OF THIS WARRANTY WILL BE BINDING UPON DATALOGIC UNLESS SET FORTH IN WRITING AND SIGNED BY DATALOGIC'S AUTHORIZED REPRESENTATIVE. DATALOGIC'S LIABILITY FOR DAMAGES ON ACCOUNT OF A CLAIMED DEFECT IN ANY PRODUCT DELIVERED BY DATALOGIC SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PRODUCT ON WHICH THE CLAIM IS BASED. DATALOGIC SHALL NOT BE LIABLE FOR DAMAGES RELATING TO ANY INSTRUMENT, EQUIPMENT, OR APPARATUS WITH WHICH THE PRODUCT SOLD UNDER THIS AGREEMENT IS USED. Further details on warranty coverage, rights and conditions are addressed under and regulated by the Terms and Conditions of Sales of Datalogic available at https://www.datalogic.com/terms_conditions_sales.

GLOSSARY

Access Point

A device that provides transparent access between Ethernet wired networks and IEEE 802.11 interoperable radio-equipped mobile units. Hand-held mobile computers, PDAs or other devices equipped with radio cards, communicate with wired networks using Access Points (AP). The mobile unit (mobile computer) may roam among the APs in the same subnet while maintaining a continuous, seamless connection to the wired network.

ASCII

American Standard Code for Information Interchange. A 7 bit-plus-parity code representing 128 letters, numerals, punctuation marks and control characters. It is a standard data transmission code in the U.S.

Barcode

A pattern of variable-width bars and spaces which represents numeric or alphanumeric data in binary form. The general format of a barcode symbol consists of a leading margin, start character, data or message character, check character (if any), stop character, and trailing margin. Within this framework, each recognizable symbology uses its own unique format.

Bit

Binary digit. One bit is the basic unit of binary information. Generally, eight consecutive bits compose one byte of data. The pattern of 0 and 1 values within the byte determines its meaning.

Bluetooth@

A standard radio technology using a proprietary protocol, targeted for short-range and low-power communication networks.

Boot

The process a computer goes through when it starts. During boot, the computer can run self-diagnostic tests and configure hardware and software.

Byte

On an addressable boundary, eight adjacent binary digits (0 and 1) combined in a pattern to represent a specific character or numeric value. Bits are numbered from the right, 0 through 7, with bit 0 the low-order bit. One byte in memory can be used to store one ASCII character.

Character

A pattern of bars and spaces which either directly represents data or indicates a control function, such as a number, letter, punctuation mark, or communications control contained in a message.

Decode

To recognize a barcode symbology (e.g., Codabar, Code 128, Code 3 of 9, UPC/EAN, etc.) and convert the content of the barcode scanned from a visual pattern into electronic data.

Depth of Field (DOF)

The portion of a scene that appears acceptably sharp in the image. Although a lens can precisely focus at only one distance, the decrease in sharpness is gradual on each side of the focused distance, so that within the DOF, the unsharpness is imperceptible under normal viewing conditions.

Dock

A dock is used for charging the terminal battery and for communicating with a host computer, and provides a storage place for the terminal when not in use.

Ethernet

The standard local area network (LAN) access method. A reference to "LAN", "LAN connection" or "network card" automatically implies Ethernet. Defined by the IEEE as the 802.3 standard, Ethernet is used to connect computers in a company or home network as well as to connect a single computer to a cable modem or DSL modem for Internet access.

Firmware

A software program or set of instructions programmed on a hardware device. It provides the necessary instructions for how the device communicates with the other computer hardware. Firmware is typically stored in the flash ROM of a hardware device. While ROM is "read-only memory," flash ROM can be erased and rewritten because it is actually a type of flash memory.

Flash Memory

Non-volatile memory for storing application and configuration files.

GSM

Global System for Mobile communication. It is a standard for digital cellular communications, currently used around the world on as many as seven bands.

Host

A computer that serves other mobile computers in a network, providing services such as network control, database access, special programs, supervisory programs, or programming languages.

IEC

International Electrotechnical Commission. This international agency regulates laser safety by specifying various laser operation classes based on power output during operation.

IEEE 802.11

A set of standards carrying out wireless local area network (WLAN) computer communication in the 2.4, 3.6, 5 and 6 GHz frequency bands. They are created and maintained by the IEEE LAN/MAN Standards Committee.

LAN

Local area network. A wireless or wired network that supports data communication within a local area, such as within a warehouse of building.

Laser

Light Amplification by Stimulated Emission of Radiation.The laser is an intense light source. Light from a laser is all the same frequency, unlike the output of an incandescent bulb. Laser light is typically coherent and has a high energy density.

Light Emitting Diode (LED)

A low power electronic light source commonly used as an indicator light. It uses less power than an incandescent light bulb but more than a Liquid Crystal Display (LCD).

Liquid Crystal Display (LCD)

A display that uses liquid crystal sealed between two glass plates. The crystals are excited by precise electrical charges, causing them to let the backlight illumination pass through them according to their bias. They use little electricity and react relatively quickly.

MIL

1 mil = 1 thousandth of an inch.

Pairing

A Bluetooth@ pairing occurs when two Bluetooth@ devices agree to communicate with each other and establish a connection.

RAM

Random Access memory. Data in RAM can be accessed in random order, and quickly written and read.

Resolution

The narrowest element dimension which is distinguished by a particular reading device or printed with a particular device or method.

Scanner

An electronic device used to scan barcode symbols and produce a digitized pattern that corresponds to the bars and spaces of the symbol. Its three main components are:

- Light source (laser or photoelectric cell) - illuminates a barcode.
- Photodetector - registers the difference in reflected light (more light reflected from spaces).
- Signal conditioning circuit - transforms optical detector output into a digitized bar pattern.

SDK

Software Development Kit.

Symbol

A scannable unit that encodes data within the conventions of a certain symbology, usually including start/stop characters, quiet zones, data characters and check characters.

Symbology

The structural rules and conventions for representing data within a particular barcode type (e.g. UPC/EAN, Code 39, PDF417, etc.).

USB

Universal Serial Bus. Type of serial bus that allows peripheral devices (disks, modems, printers, digitizers, data gloves, etc.) to be easily connected to a computer. A "plug-an play" interface, it allows a device to be added without an adapter card and without rebooting the computer (the latter is known as hot-plugging).

WLAN

A Wireless Local Area Network links devices via a wireless distribution method (typically spread-spectrum or OFDM radio), and usually provides a connection through an access point to the wider internet. This gives users the mobility to move around within a local coverage area and still be connected to the network.

WPAN

A Wireless Personal Area Network is a personal area network - a network for interconnecting devices centered around an individual person's workspace - in which the connections are wireless. Typically, a wireless personal area network uses some technology that permits communication within about 10 meters - in other words, a very short range.

WWAN

Stands for "Wide Area Network." It is similar to a Local Area Network (LAN), but it is not limited to a single location and it uses Mobile telecommunication cellular network technologies such as UMTS, GPRS, CDMA2000, GSM, CDPD, Mobitex, HSDPA or 3G to transfer data. WWAN connectivity allows a user with a laptop and a WWAN card to surf the web, check email, or connect to a Virtual Private Network (VPN) from anywhere within the regional boundaries of cellular service.

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