

# Joya™ Smart & Smart+

## USER'S MANUAL



Multi-Purpose Device for Retail



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# INTRODUCTION

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## CONVENTIONS

"PDA", "mobile computer", "device", "Joya Smart" and "Joya Smart+" refer to a Joya Smart/Smart+ device. "Dock" refer to a Joya Smart device dock.

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

## PRODUCT OVERVIEW

### SHOPPING HAS NEVER BEEN SO EFFORTLESS AND IMMERSIVE

Experience an unparalleled self-shopping journey with Joya's large and vibrant 5-inch display, delivering a truly immersive view for enhanced product interaction and navigation. Featuring Wi-Fi 6E and advanced no-infrastructure required indoor localization, shoppers enjoy seamless connectivity and a guided, optimized path through the store. GS1 Digital Link support provides instant access to rich, real-time overlaid product details; while auto-scan mode enables hands-free shopping experience for ultimate speed and convenience.

### DESIGNED TO LEAD, BUILT TO LAST

With its modern design, the Joya Smart family offers superior ergonomics in two form factors to provide the best, most intuitive user experience for every shopper. Its rugged IP54-rated body and high drop resistance make it ideal for environment where frequent drops and spills are inevitable. Designed for hygiene and uptime, it features chemical-resistant plastics for easy disinfection and wireless charging to eliminate contact issues. Corning™ Gorilla™ Glass protects the display and scanner, while customizable colors align with any retail brand.

### SCAN, PAY AND GO – SHAPING EVERY SHOPPER'S JOURNEY

The shopping journey begins with an easy release from the cradle, triggered by scanning a loyalty card or NFC tap-to-release on device. Best-in-class barcode reading ensures fast and flawless scanning, capturing even poorly printed or damaged barcodes. Datalogic's exclusive Green Spot technology and smiley LED under the display give immediate visual feedback. Integrated NFC technology allows shoppers to tap-to-pay with their card or digital wallet on the device, speeding up check-outs.

### AI-POWERED PROTECTION FOR EVERY BASKET

The first self-scanning device with integrated Smart Cart Mode functionality, featuring Datalogic's unique Shop Guard AI technology for in-store loss prevention. Powered by a cart monitoring rear-facing camera, the system detects both unintentional shopper mistakes and potential loss, enhancing basket integrity. During spot checks, this AI assistance dramatically speeds up the rescan process by instantly showing the associate the image of unscanned items, providing new tools to improve checkout experience.

## MAXIMIZE YOUR INVESTMENT WITH JOYA SMART

Wireless charging on both cradles and device minimizes downtime and maintenance, reducing total cost of ownership while keeping self-shopping running smoothly. Customers will enjoy industry-leading Comprehensive hardware and software support, with continuous updates and access to cutting-edge tools from our Datalogic Mobility Suite.

## SMART SHOPPING, SUSTAINABLE FUTURE

Device and accessories are crafted with recycled materials and delivered in recyclable packaging. Datalogic's latest solution is designed to reduce waste and energy helping retailers to set it up without changing existing walls. Easy to repair and efficient to power, it's the smart choice for retailers who care about performance and the planet.

## Features

- Fast processor and high-speed connectivity: Qualcomm 4490 platform | Wi-Fi 6/6E and Bluetooth 5.3
- Superior scanning performances: Datalogic Halogen™ DE2121-DL scan engine with Green Spot technology
- Integrated wireless charging system: reduce downtime and maintenance having no contacts on devices and cradles
- Tap & Go - Pay in seconds with just a tap on display thanks to integrated NFC for contactless payment
- ShopGuard: embedded AI algorithms that use computer vision via the integrated rear-camera to validate scanned items, preventing unintentional mistakes and helping store associates to quickly find only the items to be re-checked in any customer's cart.
- Two form-factor models crafted for intuitive ergonomics - IP 54 certified, Multiple 1.3/4ft drops to concrete, 500 0,5m/1.6 ft tumbles at room temperature without protective boot – customizable colors
- EASEOFCARE Service Plans - offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI. Datalogic Shield, a service for Android security patches and OS upgrades is included with EASEOFCARE.

## Industry - Applications

- **Retail:** Grocery stores; super and hyper markets; Do-it-Yourself stores, Large hardware stores; Department stores, Cash-and-Carry stores.
- **Shopper Applications:** Self-Shopping, Frictionless self-checkout, Product information, Price checking, Product availability, Loyalty point look up, Dynamic couponing.
- **Store Associate Applications:** Online order click and collect picking, Shelf replenishment, Store inventory, Assisted sales, Markdowns/markups, Stock lookups, Queue busting with mPOS, inventory management.

## AVAILABLE MODELS

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

### Joya Smart

- 911450001 JOYA SMART, Wi-Fi 6e IEEE 802.11 a/b/g/n/ac/ax and 802.11 d/e/h/i/k/r/v/w/mc, B 5.3, 2D Imager w/Green Spot, Autoscan Camera (13MP), Wi-Fi6E, 6GB/64GB, Qualcomm Octa Core, 2,4GHz, Android v15, NFC, IP54, Light grey, Dark Grey, Dark Grey.
- 911450003 JOYA SMART, Wi-Fi 6e IEEE 802.11 a/b/g/n/ac/ax and 802.11 d/e/h/i/k/r/v/w/mc, B 5.3, 2D Imager w/Green Spot, Autoscan Camera (13MP), Wi-Fi6E, 6GB/64GB, Qualcomm Octa Core, 2,4GHz, Android v15, NFC, IP54, Black, Black, Black.

### Joya Smart+

- 911450002 JOYA SMART+, Wi-Fi 6e IEEE 802.11 a/b/g/n/ac/ax and 802.11 d/e/h/i/k/r/v/w/mc, B 5.3, 2D Imager w/Green Spot, Autoscan Camera (13MP), Wi-Fi6E, 6GB/64GB, Qualcomm Octa Core, 2,4GHz, Android v15, NFC, IP54, Light grey, Dark Grey, Dark Grey.

## OUT OF THE BOX

The Joya Smart & Smart+ package contains:

- Joya Smart/Smart+ device (with battery included)
- 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

## Joya Smart

Top View



Front View

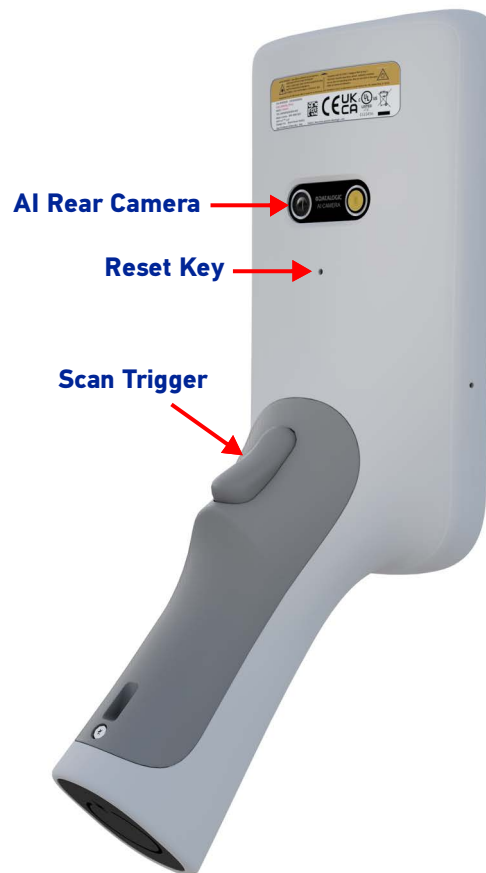


## Bottom View



Wireless Charging Area

## Back View



AI Rear Camera

Reset Key

Scan Trigger

# Joya Smart+

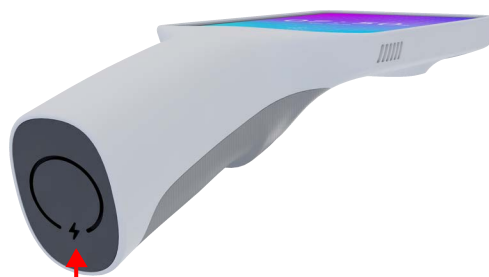
## Front View



## Back View



## Bottom View



**Wireless Charging Area**

## ACCESSORIES

### Battery, Docks, and Chargers

- 94ACC0433 Battery
- 94A150138 Joya Smart & Smart+ 3-Slot Dock Cradle for Wall Mounting
- 94A150139 Joya SSD Wireless Charging-w/o Locking
- 94A150140 Joya SSD Wireless Charging-w/Locking
- 94A150148 Joya Smart & Smart+ 3-Slot Dock Cradle WLC for Wall Mounting. Requires power supply (94ACC0380), line cord and wall bracket
- 94A150149 Joya Smart & Smart+ Single Slot Dock Cradle without locking system Requires Power Wall Adapter with 4 regional plugs (94ACC00383) and USB-A to USB-C cable (94ACC00327)
- 94A150150 Joya Smart & Smart+ Single Slot Dock Cradle with locking system Requires power supply (94ACC0380), line cord and wall bracket

### Mounts/Stand

- 94ACC0428 Joya 3SD Wall Bracket to replace JT installations
- 94ACC0429 3SD Wall Bracket to replace other installations
- 94ACC0430 3SD Wall Bracket to replace JT & other installations (only to position Joya Smart in Visible display configuration)

### Holsters and Cases

- 94ACC0431 Joya Smart - Rubber Boot
- 94ACC0461 Joya Smart+ Rubber Boot
- 94ACC0427 Joya Trolley Holder (60pz)
- 94ACC0432 Joya Belt Holster

### Miscellaneous

- 94ACC0434 Joya Smart – Screen protector (5 psc)
- 94ACC0463 Joya Smart+ Screen Protector (5pcs)
- 94ACC0462 Joya Smart & Smart+ Cradle Unlock Key (5pcs)

### Accessories shared with Memor 30-35 and Memor 12-17

- 94ACC0380 Power Supply for Charging Docks
- 95A051041 Power Cord, Europe
- 91ACC0049 Daisy chain connector (5 pieces)
- 91ACC0045 Memor 1 / Joya Touch Cradle/Dock Unlock Key (5 pcs)
- 95ACC1113 Power Cord, NA
- 95ACC1212 Power Cord, Japan
- 95ACC1213 Power Cord, UK
- 95ACC1215 Power Cord, Australia
- 94ACC0383 Power Wall Adapter with 4 regional plugs – USB A
- 94ACC0327 USB-A to USB C cable / 1.2m long

## CHARGE THE DEVICE

The Joya Smart & Smart+ are provided with the battery pack already installed and configured in Ship Mode at the factory. To wake the device from Ship Mode, connect it to a power supply or insert it into a dock (for more information, see the [Getting Started](#) section of this manual).

The battery pack is initially not fully charged. Before using the device, charge the battery with a dock.



**NOTE:** Using the device while the battery is charging will significantly increase the time required to reach a full charge.



**NOTE:** The device may get warm during charging. This is normal and does not mean a malfunction.



**CAUTION:** Ensure all the components are dry before performing any type of connection to the device. Any damage caused by use of wet equipment is not covered by warranty.

### Charge with the Single Slot Dock Wireless Charging w/Locking

First plug the power cord into the power connector on the back of the dock, then connect the power cord to the power supply.

Insert the device into the dock with the screen facing front.



**CAUTION:** Use only the Datalogic power supply 94ACC0380 to power the dock. The Single Slot Dock Wireless Charging w/Locking cannot be daisy-chained to a 3-Slot Dock.



**NOTE:** For further information on the Single Slot Dock Wireless Charging w/Locking, refer to the Quick Start Guide included in the dock's box.

## Remove the device from the Single Slot Dock Wireless Charging w/Locking

The Single Slot Dock Wireless Charging w/Locking can be unlocked using the unlock key (p/n 94ACC0462) or by software sending an unlock command from the inserted device (see the Joya Smart & Smart+ user's manual or the SDK documentation).

To locally unlock the dock and remove the device:

1. Insert the unlock key into the opening and gently press it all the way down.



2. Remove the device while keeping the unlock key pressed.



## Charge with the Single Slot Dock Wireless Charging w/o Locking

First plug the power supply into the USB Type-C port on the back of the dock, then plug the power supply into a power outlet.

Insert the device into the dock with the screen facing front.



**CAUTION:** Use only the Datalogic power supply 94ACC0383 to power the Joya Touch Single Slot Dock Charge Only.



**NOTE:** Insert the device into the dock with the screen facing front.  
For further information on the Single Slot Dock Wireless Charging w/o Locking, refer to the Quick Start Guide included in the dock's box.

## Charge with the 3-Slot Dock Wireless Charging

There are two options to connect the dock to the power supply: fast charge and standard charge.

### Fast Charge

The fast charge connection allows to power one dock with one power supply.

Plug the power supply cable into the power connector on the back of the dock, then plug the power supply into the AC/DC plug using a Datalogic power cable. See below two examples of how to insert the power supply cable through the wall mounting metal bracket.



Visible Display



High Density

### Standard Charge

The standard charge connection allows to power up to three docks with one power supply.

To connect an additional dock use the Joya Smart Power Jumper, available as optional accessory (P/N 91ACC0049).

1. Connect the power supply to the first dock.
2. Connect the additional docks using the power jumper.
3. Plug the power supply into the AC/DC plug using a Datalogic power cable.



**CAUTION: Use only the Datalogic power supply 94ACC0380 to power the 3-Slot Dock.**



**NOTE:** Insert the device into the dock with the screen facing front.

Under the same conditions, the fast charge connection can charge the battery up to twice as fast as the standard charge connection.

For further information on the 3-Slot Dock Wireless Charging, refer to the Quick Start Guide included in the dock's box, and to the Wall Mount Bracket Installation Guide, downloadable from our website [www.datalogic.com](http://www.datalogic.com).



**CAUTION:** Do not put any foreign object such as, but not limited to, coins, paper clips, stickers inside the slot of any of the docks.

Do not apply any sticker to the device (see the examples below).



## 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.**

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. Charge the battery pack as indicated in the Quick Start Guide or in the User Manual, before using the device.

The battery pack autonomy varies according to many factors, such as the frequency of barcode scanning, RF usage, battery life, storage, environmental conditions, etc.

Close to the limits of the working temperature, some battery performance degradation may occur.

The device should be charged at an ambient temperature between 5 - 35° C (41 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 device gets warm during charging; this is normal and does not mean a malfunction.

Even if the storage temperature range is wider, it is recommended to store the terminal and the batteries at environmental temperature, in order to achieve the longest battery life.



**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 batteries usagées conformément 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.**

# GETTING STARTED

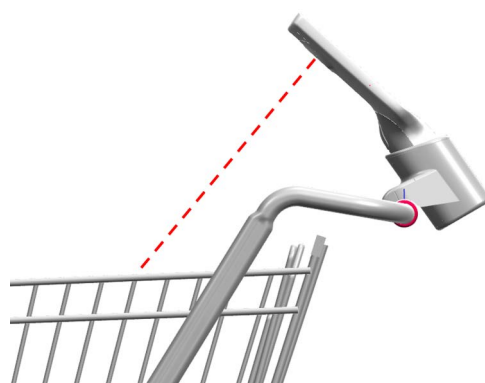
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## INSTALL THE TROLLEY HOLDER

1. Place the holder on the trolley's handle and tilt it according to the proper groove (highlighted in the pictures below).  
The highlighted groove must be perpendicular to the floor.



Joya Smart



Joya Smart+

2. Fix the holder with the provided screws.

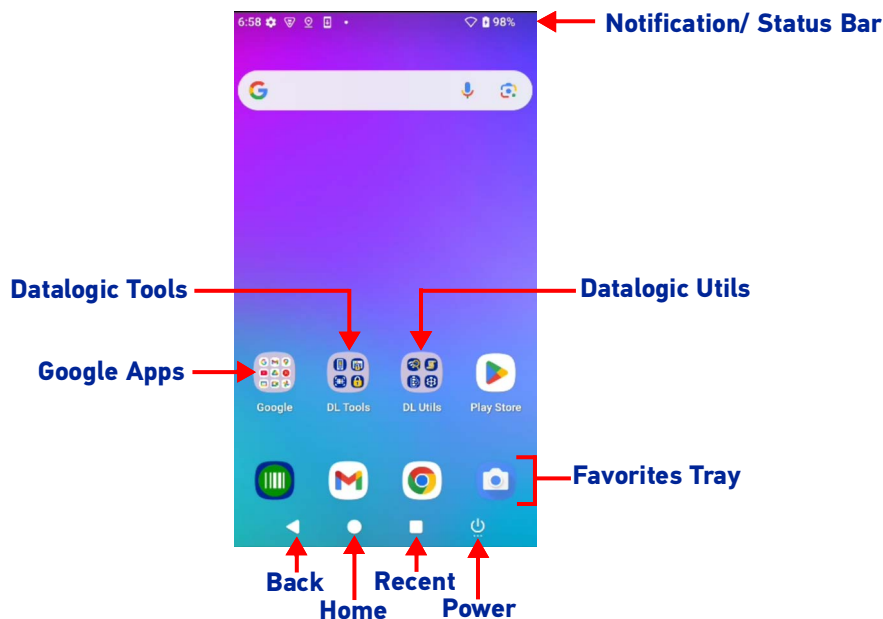


**NOTE:** Datalogic reserves the right to assess the compatibility of our devices with the trolley holders already mounted on the trolleys.

# TURN ON THE DEVICE

To turn on the device, press and hold the Scan Trigger 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, Soft-Spot, 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

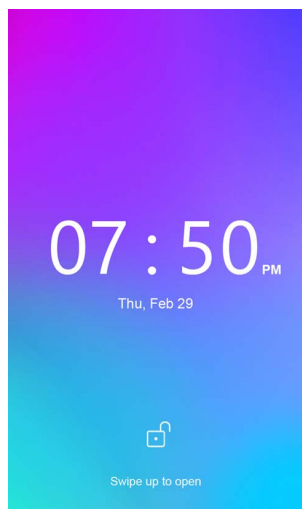
	Wi-Fi is on.		Battery is low.
	Wi-Fi not connected.		External power source is connected.
	Wi-Fi connected no internet.		Battery is full.
	Connected to a Wi-Fi network.		Battery is partially drained.
	Bluetooth is on.		Airplane mode.
	Vibrate mode.		SD storage.

## 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 source is the pistol trigger. Use the **Data-logic Settings** to customize them (see "[Wake-Up Policies](#)" on page 64).

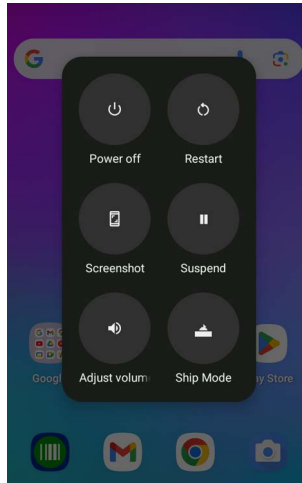


To unlock the home screen, tap anywhere on the screen and drag your finger upward.

To set the timeout limit, see "[Suspend Timeout](#)" on page 63.

## LONG PRESS POWER MENU

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



### 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

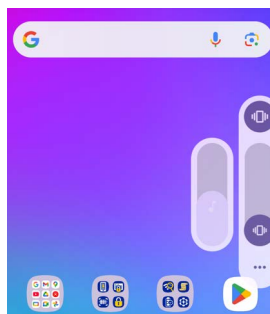
Tap **Screenshot** to capture a screenshot of the current screen.

### Suspend

Tap **Suspend** to toggle the terminal in suspend mode (see "[Suspend Mode](#)" on page 19).

### Adjust volume

Tap **Adjust volume** to set the volume.



### Ship Mode

Tap **Ship Mode** to perform a complete shutdown of the device, after which the battery will be detached.









In the battery pack, undesired current consumption is reduced during a shipping period to extend the charge keeping time of the battery pack.

To restart the device, connect it to a power supply or insert it into a dock.





## APPLICATIONS

The **All Apps** screen displays icons for all installed applications. The table below lists the default applications installed on the device.















### Datalogic Utilities

Icon	Description
	Datalogic Settings - See " <a href="#">Datalogic Settings</a> " on page 29.
	SoftSpot - A configurable application meant to provide easy access to frequently used functionalities, as well as activating the scan engine of the device (see " <a href="#">SoftSpot™</a> " on page 103).
	Battery Manager - Provides information on the battery type, charge, status and temperature, allows to set the charging profile and to log battery data (see " <a href="#">Battery Manager</a> " on page 87).
	CradleTool - Allows to configure the dock, read dock information and perform some operations (see " <a href="#">CradleTool</a> " on page 95).
	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 " <a href="#">Datalogic Logger</a> " on page 106).
	Aladdin - Android application that allows users to pair and access various features and settings of a CODiScan scanner (see " <a href="#">Datalogic Aladdin</a> " on page 106).
	Dock Manager - Provides information on the dock and allows unlocking the docked devices (see " <a href="#">Dock Manager</a> " on page 97).









### Datalogic Tools

Icon	Description
	Scan2Deploy - Configuration tool (see " <a href="#">Scan2Deploy</a> " on page 108).
	Launcher - Android application that locks down the device to launch only allowed applications (see " <a href="#">Datalogic Launcher</a> " on page 109).
	Browser - Android application for web browsing to only allowed sites and to expose JavaScript access to the scanner (see " <a href="#">Datalogic Enterprise Browser</a> " on page 109).
	Scan Demo – Enables data capture (see " <a href="#">Data Capture</a> " on page 110).

## Google Applications

Icon	Description
	Calendar - Lets you manage events and appointments.
	Chrome - Google's own web browser. Use it to access the Internet or intranet.
	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.
	Files - Use it to free up space on your device and browse and share your files.
	Gemini - Google's AI assistant.
	Gmail - Use it to send and receive email.
	Google - Google's own web search engine.
	Google TV - Google's own online video on demand service. It offers movies and television shows for purchase or rental, depending on availability.
	Maps - Google's own mapping mobile app.
	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.
	Youtube - Google's own video-sharing website
	YT Music - Music streaming service from YouTube

## 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.
	DisplayLink Desktop - Allows to connect a DisplayLink device and use your apps on a desktop monitor.
	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 device (see " <a href="#">Settings</a> " on page 28).
	Sound Recorder - Tool for recording the sound and editing the saved recordings.

## TOUCH GESTURES

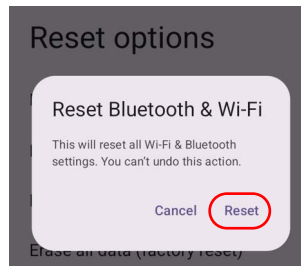
<b>Tap</b>	Tap the screen with your finger or with the stylus to open items and select options.
<b>Drag</b>	Hold your finger or the stylus on the screen and drag across the screen to scroll or pan. Drag in a list to select multiple items.
<b>Tap-and-hold</b>	Tap and hold your finger or the stylus on 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

### Reset Bluetooth & Wi-Fi

Resets all network settings.

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



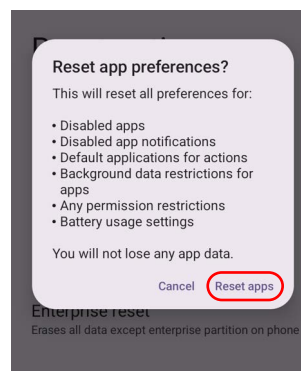
2. Tap **Reset**.

### 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**.

### Delete Private Space

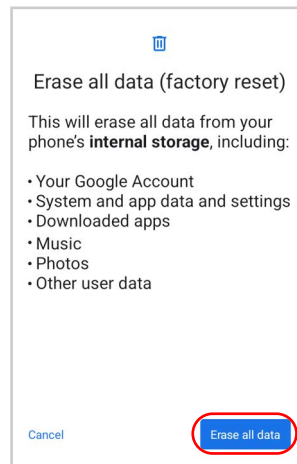
Permanently removes the private space and its data.

- Tap **Settings > System > Reset options > Delete private space**.

## 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)**.



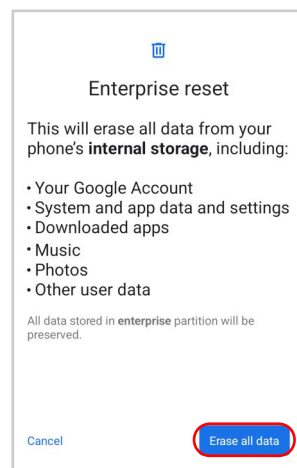
2. Tap **Erase all data**.

## 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**.

## Hard Reset

Restarts the device resetting all the hardware components. This procedure guarantees the safe reboot of the device in any condition, without causing damage to the device and without data loss. It is generally used when the device stops responding or after a critical failure that compromises its usability.

To perform a hard reset, do the following steps:

1. Perform a full shutdown by pressing and holding the reset key with a metallic clip for about 15 seconds.



2. Press the Scan Trigger to restart the device.

## LED INDICATOR

The Notification LED illuminates to indicate various functions or errors on the reader. The following tables list these indications. The good read notifications are programmable, and may or may not be enabled (see "Good Read" on page 32 for more details). Use the Datalogic settings tab to enable/disable the LED notifications (see "LEDs" on page 75 for more details).

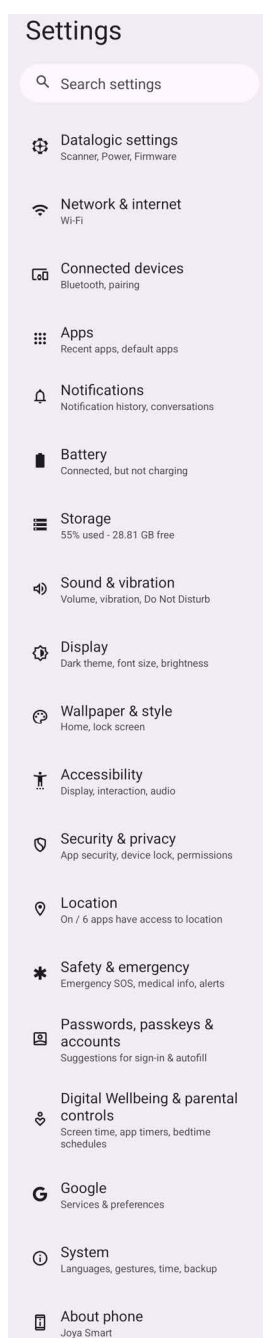
BATTERY STATUS NOTIFICATIONS	
Status	Description
Green blink once	Battery starts charging.
Red constant	Battery is charging.
Blue blink once	The power source is plugged in and the battery is fully or nearly fully charged.
Green constant	Charging is complete (the battery is fully charged or has reached its charge limit).
Red flashing continuously	Battery failure (battery health is not good/ the device is not plugged/ unspecified failure (auth failed).
GOOD READ NOTIFICATIONS	
Status	Description
Solid 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.
Solid green	Light is solid green from the time the barcode is successfully decoded, until the scanner times out, or until the user releases the scan key.
ANDROID NOTIFICATIONS	
Status	Description
Light blue/white flashing continuously	General notification alert.

# SETTINGS

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## OVERVIEW

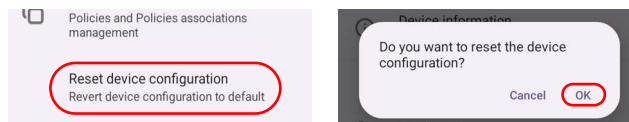
The **Settings** app allows you to check or set system parameters to customize your device. To open the **Settings** screen, tap the **Settings** icons on the **All Apps** screen.



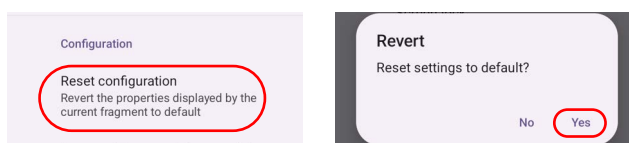
## DATALOGIC SETTINGS

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:



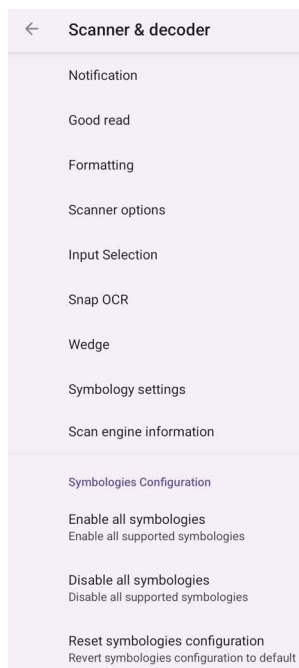
Tap **Reset configuration** at the end of a specific settings screen to reset those configuration settings to default:



## Scanner & Decoder

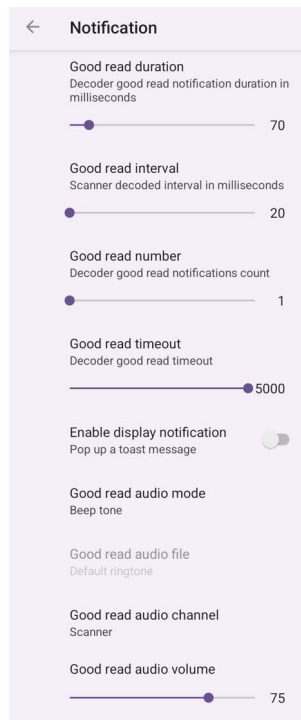
Before you start reading barcodes, use the **Settings** app to view and configure all settings for the scanner.

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 or beep) the scanner emits on a good read.

### Good Read Interval

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

### Good Read Number

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

### Good Read Timeout

Sets the amount of time before the good read LED turns 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

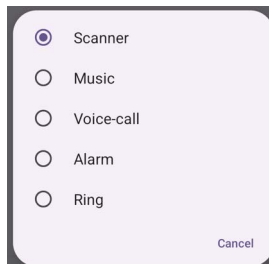
If **Audio file** is selected, the option **Good read audio file** displays. Tap it to select the file you want to use as good read ringtone.



**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.

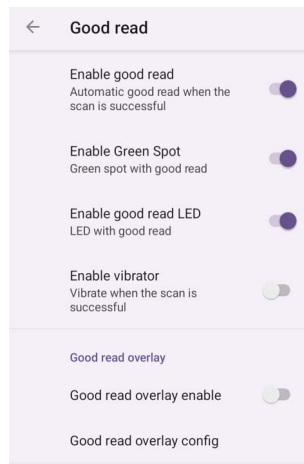


### Good Read Audio Volume

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

## Good Read

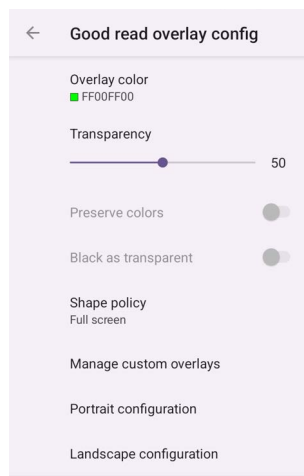
Use it to enable good read notifications (LED, Green Spot, Vibrator):



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.

**Good read overlay enable** is enabled by default. It displays a notification as an overlay 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.

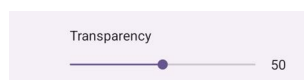


### Overlay color

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

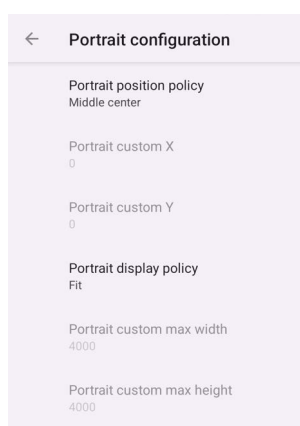
Specifies the shape to display for the overlay image. If **Full screen** is selected, the entire screen is filled with the selected color. The default value is **Full screen**. Select **Custom** to upload an overlay image.

## 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.

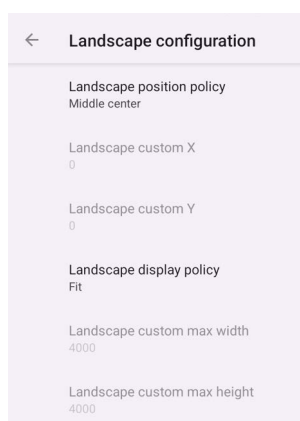


Set the **Portrait position policy** to **Custom** to configure the X/Y coordinate settings.

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.



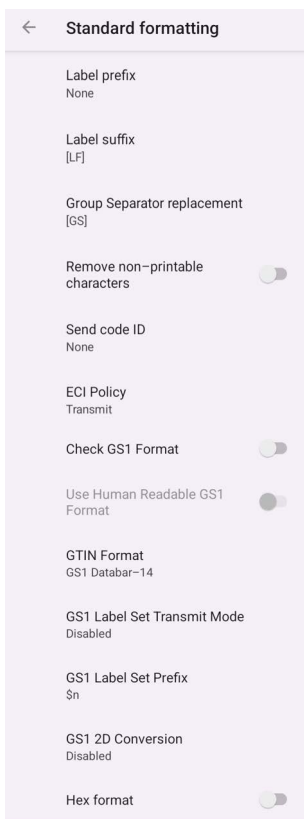
Set the **Landscape position policy** to **Custom** to configure the X/Y coordinate settings.

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

## Formatting

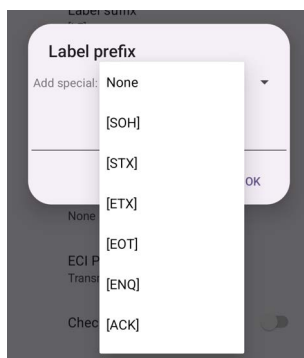
### Standard Formatting

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



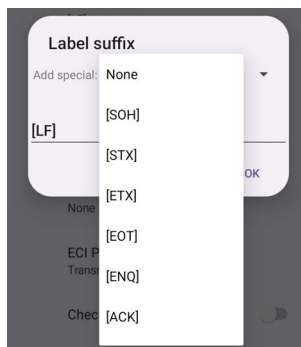
### Label Prefix

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

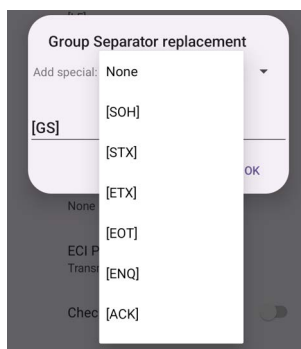
Tap **Label suffix** to enter the characters you will be using as suffix. Tap **Add special** to select a special character to be added in the current cursor position:



### 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:

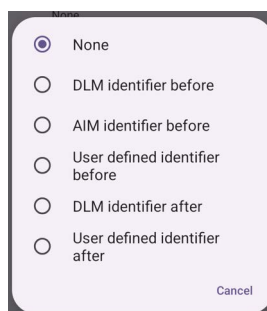


### Remove Non-Printable Characters

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:

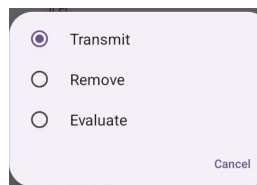
The Basic Channel Model (BCM) describes the functional components that co-operate to convey a message via a traditional bar coding system.

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:

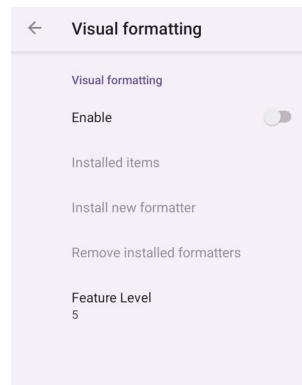
- **Disabled:** No conversion
- **GS1-128:** Convert the barcode to GS1-128 format
- **GTIN:** Take only the GTIN portion of the barcode and convert it to GTIN format
- **UPCA/EAN13 Compatibility:** Take only the GTIN portion of the barcode and convert it to the shortest option between GTIN, EAN13 and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

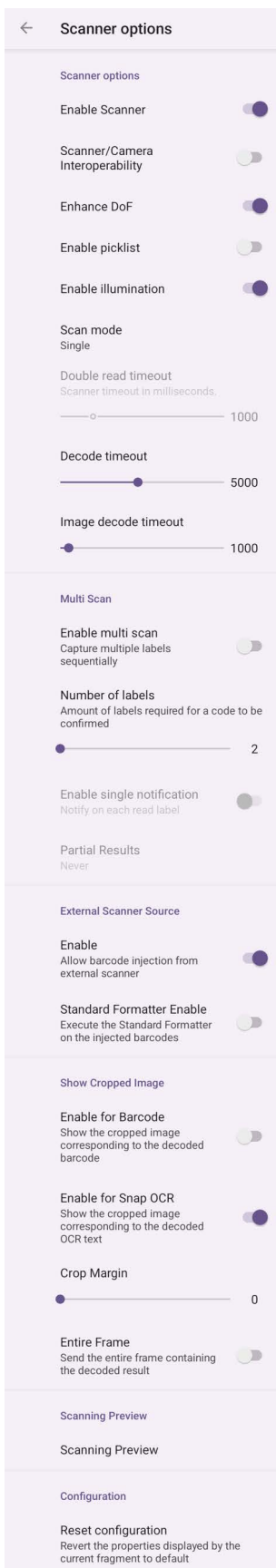
Enable to set up barcode visual formatting.



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

## Scanner Options

Tap **Scanner Options** to customize the device 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

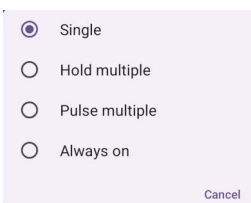
If enabled, it allows you to pick and decode a barcode from multiple barcodes printed close together, when the scan illumination intersects more than one barcode. Only the targeted barcode will be returned.

## Enable Illumination

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

## 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*

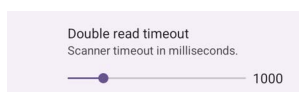
When the trigger is pulled, continuous scanning is activated until the decode timeout has elapsed or the trigger has been released and pulled again.

### *Always On*

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

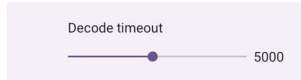
## Double Read Timeout

if a multiple scan mode is selected, you can drag this slider to set the minimum time, in milliseconds, allowed between reads of the same barcode label. The default value is 1000.



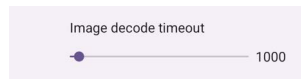
### Decode Timeout

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.

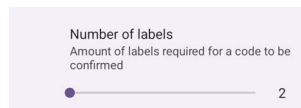


### Enable Multi Scan

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.

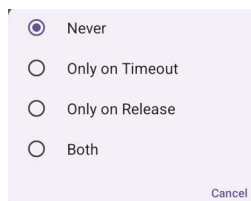


### Enable Single Notification

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.

### **External Scanner Source**

If enabled, allow barcode injection from an external scanner.

### ***Standard Formatter Enable***

Executes the Standard Formatter on the injected barcodes.

### **Show Cropped Image**

The results of a barcode or OCR may also include a cropped image of the data. These settings control its behavior.

#### ***Enable for Barcode***

Shows the cropped image corresponding to the decoded barcode.

#### ***Enable for Snap OCR***

Shows the cropped image corresponding to the decoded OCR text.

#### ***Crop Margin***

Sets the amount of margin to add to all borders of the cropped image (0 - 100 pixels). The default value is 0.

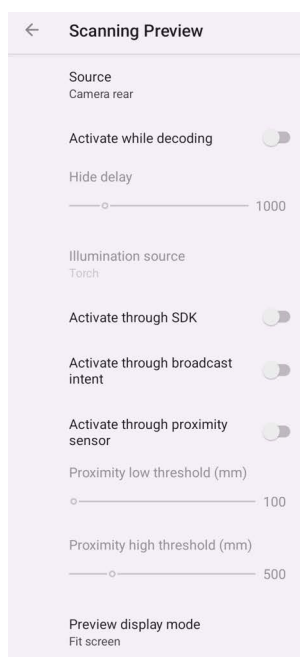


#### ***Entire Frame***

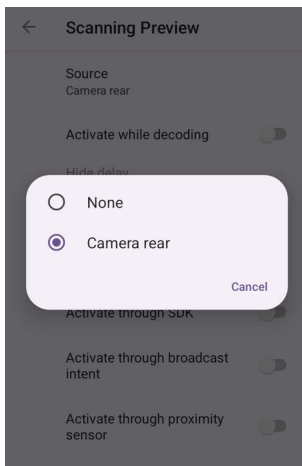
Sends the entire frame containing the decoded result.

### **Scanning Preview**

This settings allow to display and configure a preview of the barcode before capturing it.

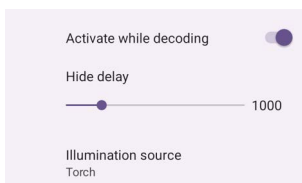


Select **Camera rear** as source to enable the **Scanning Preview** settings.

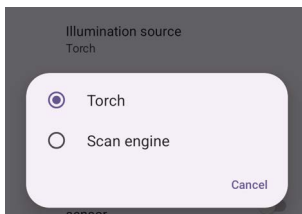


**Activate while decoding**

If enabled, a scan trigger press activates the preview.



Use the **Hide delay** slider to set how long the preview remains visible after decoding. Tap **Illumination source** to choose the light source for scanning.



**Activate through SDK**

If enabled, the SDK can activate the preview.

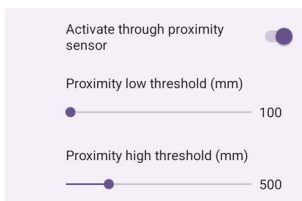
**Activate through broadcast intent**

if enabled, an intent can activate the preview.

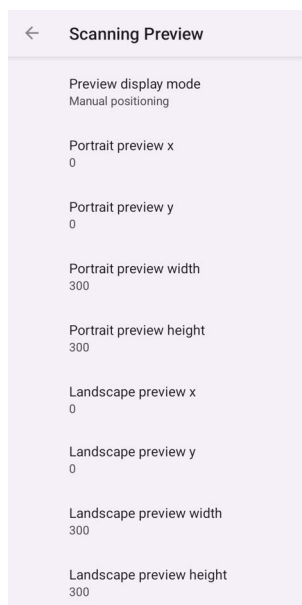
**Activate through proximity sensor**

If enabled, the preview activates when an object is near the device.

With proximity activation enabled, you can set the proximity range thresholds.

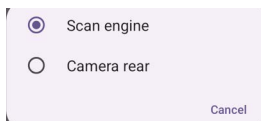


Select **Manual positioning** under **Preview display mode** to resize and move the preview window.

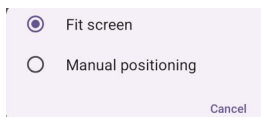


## Input Selection

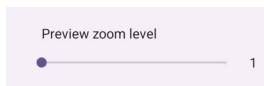
Tap **Input Selection** > **Input type** to select the hardware to use for scanning. The two options are: Scan engine and Camera rear.



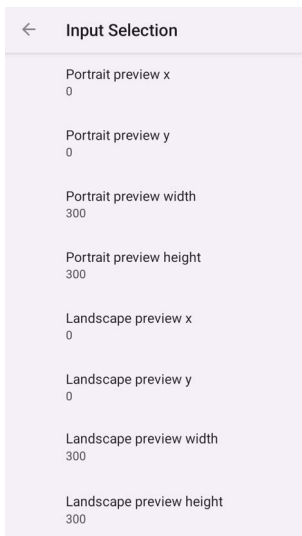
If **Camera rear** is selected, you can set the **Preview display mode**. The default value is **Fit screen**.



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

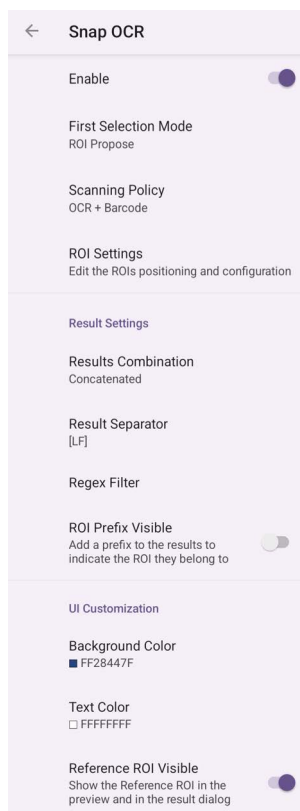


If **Manual positioning** is selected, you can configure the following settings:



## 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

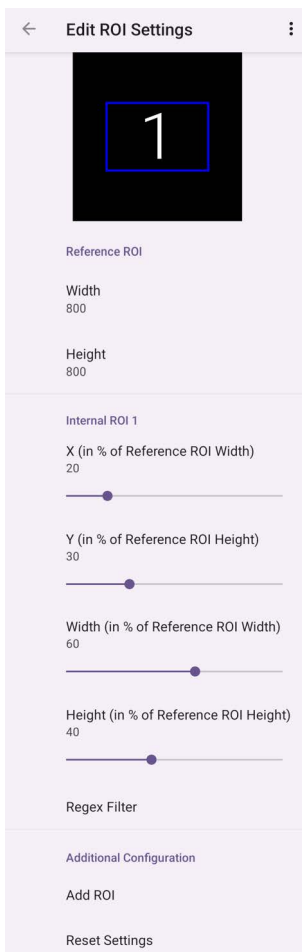
Decodes only OCR texts.

#### 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*

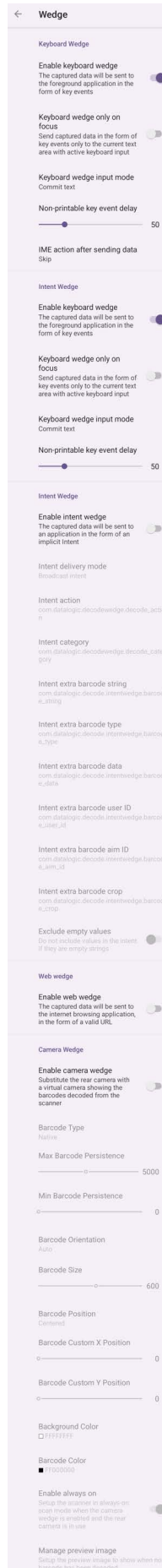
Sets the text color for the result dialog shown when the first selection mode is **Always Select**, **ROI Propose** or **Picklist Propose**.

### *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

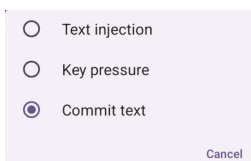
If selected, the scanner is enabled whenever a text area is in focus and can receive text.

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*

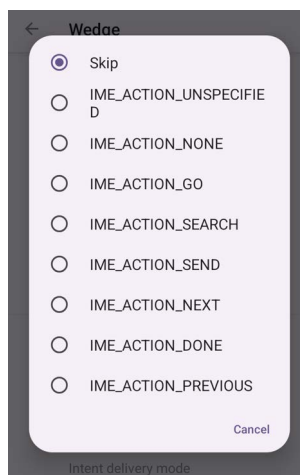
The printable characters are injected into the text area, emulating the pressure of keyboard keys for not printable keys.

## 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.

## IME Action After Sending Data

An IME action (Input Method Editor action) is a command triggered by a specific button on a soft keyboard. This setting allows to select an IME action to send after the keyboard wedge has emitted its content.



### **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**

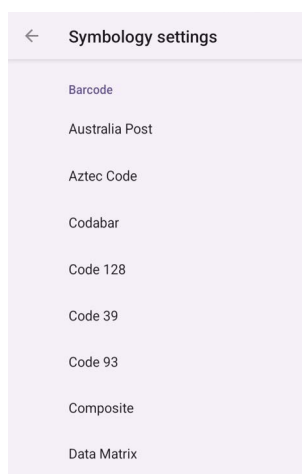
Enables direct data input into internet browsing applications, in the form of a valid URL.

### **Camera Wedge**

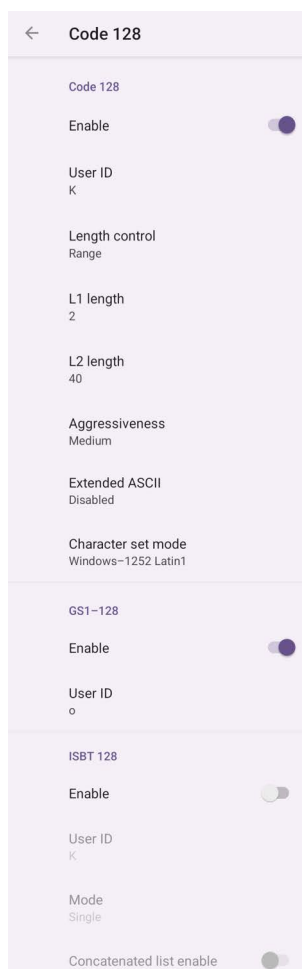
If enabled, it replaces the rear camera with a virtual camera showing the barcodes read by the scanner. You can customize the barcode type, persistence, orientation, size, color and position.

## Symbology Settings

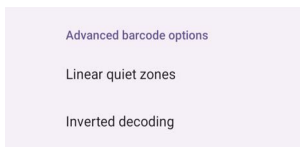
Each barcode symbology can be customized with additional settings that may affect that specific barcode decoding. Tap **Symbology settings** to configure symbology decoding options:



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:

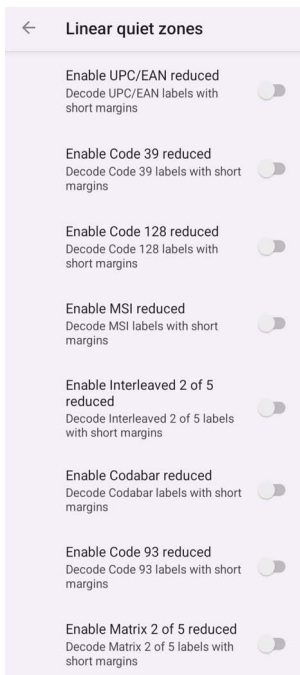


## Advanced Barcode Options



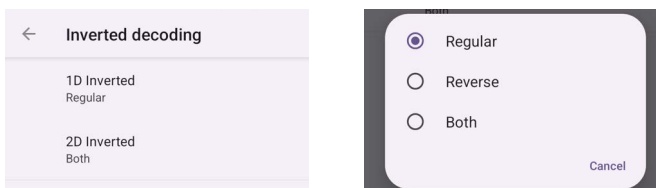
### Linear Quiet Zones

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:

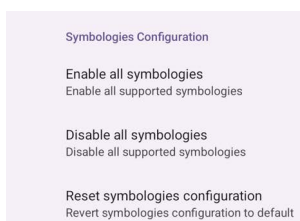


## Scan Engine Information

Provides information on the scan engine.

## Symbologies Configuration

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



## Keyboard & Touch

### Virtual Keyboard

Enables 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:

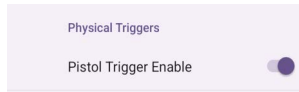
- Default
- Automatic
- Custom.

#### Lock Keyboard Input

If enabled, it locks user input from the keyboard.

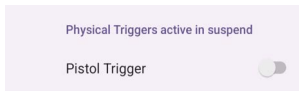
### Triggers

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



#### *Physical Triggers active in suspend*

Sets the trigger keys that remain active in suspend mode.

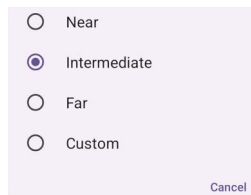


#### *Auto Scan Trigger*

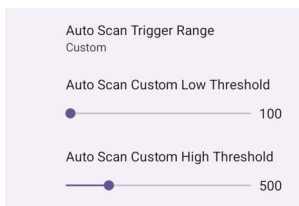
The Joya Smart & Smart+ have a proximity sensor able to detect the presence of nearby objects

without any physical contact. If enabled, the **Auto Scan Trigger** allows to automatically read barcodes without pressing the trigger button.

Tap **Auto Scan Trigger Range** to select the maximum distance at which the device will automatically start scanning barcodes.



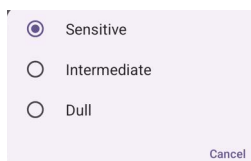
When the range is set to custom, **Custom low threshold** sets the low threshold level (the default value is 100), and **Custom high threshold** sets the high threshold level (the default value is 500).



#### *Motion Trigger*

Barcode reading can be triggered by any rapid movement of the device. 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.

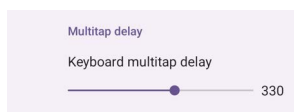


Select **Vibrate When Motion Detected** to enable the vibrator.

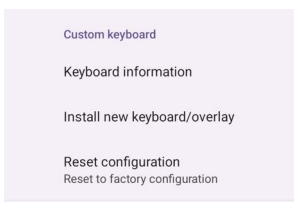
## Advanced Keyboard Settings

### 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



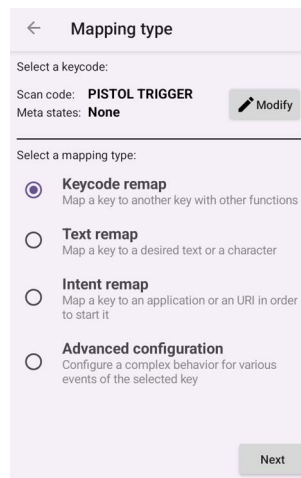
**Keyboard Information:** displays keyboard info.

**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**.

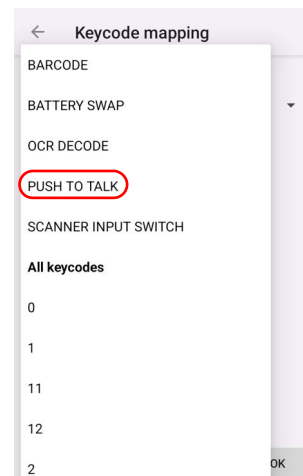
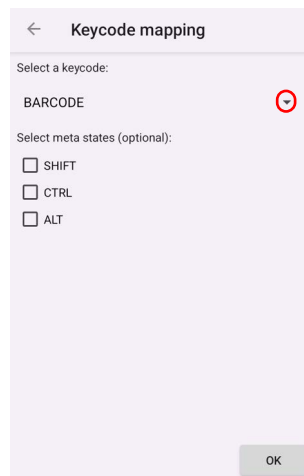
Select a mapping type and tap **Next**.

### Keycode remap

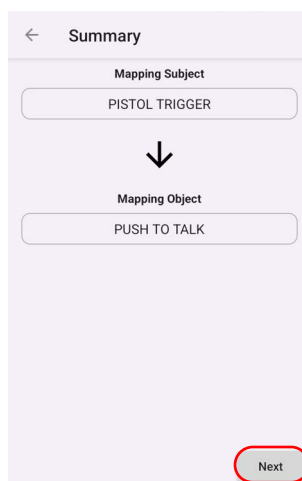
Map the selected key to a new function.

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

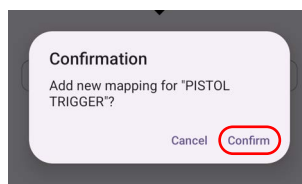
Select a meta state (optional) to add a modifier key (such as **SHIFT**, **CTRL**, or **ALT**).



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



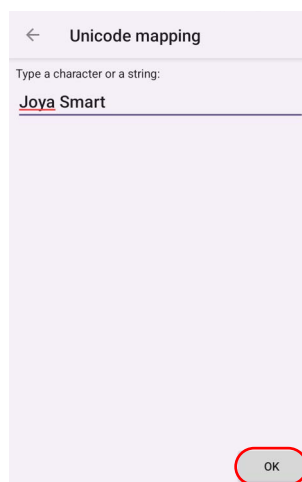
Tap **Next** to confirm.



### Text remap

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

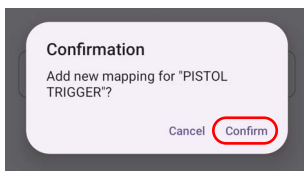
Type a character or string and tap **OK** to confirm.



A window displays showing the new keymap.



Tap **Next** to confirm.

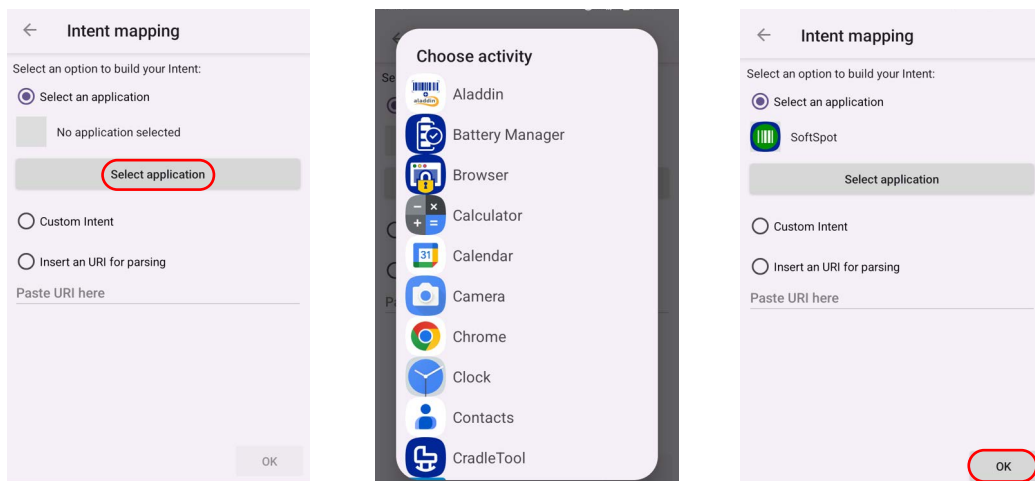


### Intent remap

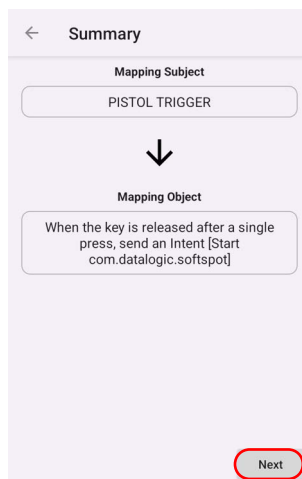
Map the selected key to a specific action. This action can be a start activity intent for launching an application, a user defined intent or an intent including a URI (Uniform Resource Identifier).

#### Select an application

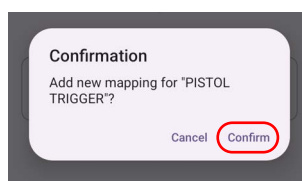
Tap **Select an application**, then select an application loaded on your device. Tap **OK** to confirm.



A window displays showing the new keymap.



Tap **Next** to confirm.



## 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.

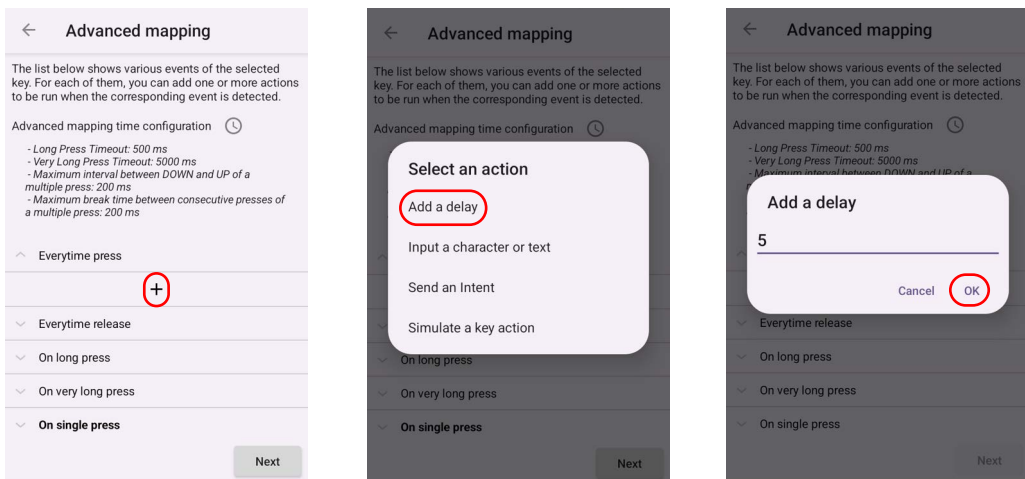
- **Long Press Timeout:** the minimum duration for a press to be recognized as a long press gesture (default: 500 ms).
- **Very Long Press Timeout:** the minimum duration for a press to be recognized as a very long press gesture (default: 5000 ms).
- **Maximum interval between DOWN and UP of a multiple 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

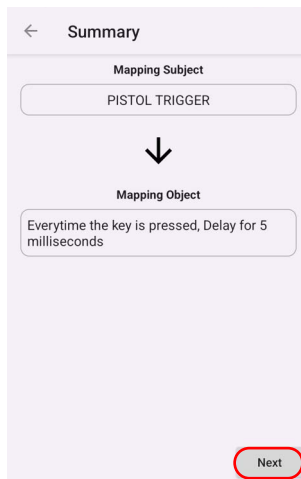
This section defines when the assigned actions are triggered.

- **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).

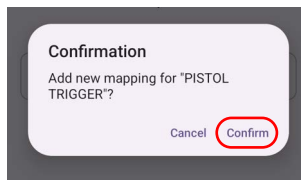
For each policy you can add one or more actions to be performed. There can even be delays between these actions (e.g., a long press could trigger action A, then after a short delay, trigger action B).



A window displays showing the new keymap.

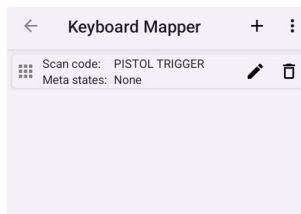


Tap **Next** to confirm.



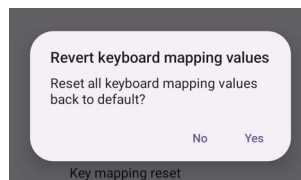
### View All Remapped Keys

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.



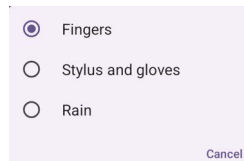
### Key Mapping Reset

Resets all the remapped keys default.



## Touch Mode

Tap **Touch mode > Screen sensitivity** to adjust 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. Joya Smart & Smart+'s PTT is compatible with Zello.

Use the Push to talk settings to:

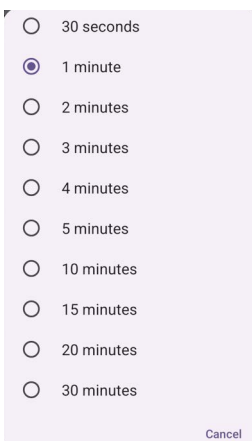
- enable/disable notifications when PTT configuration changes
- enable/disable a walkie-talkie app to be activated while the screen is locked
- launch a walkie-talkie app by pressing the PTT key while the screen is locked
- select a walkie-talkie application.

## Power & Sources

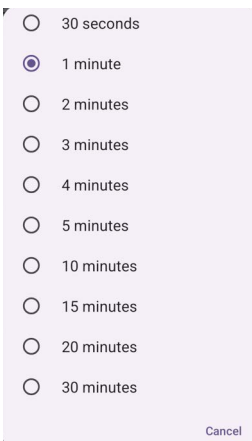
### Suspend Timeout

You have two options to set the suspend timeout (see "Suspend Mode" on page 19 for more information on Suspend Mode):

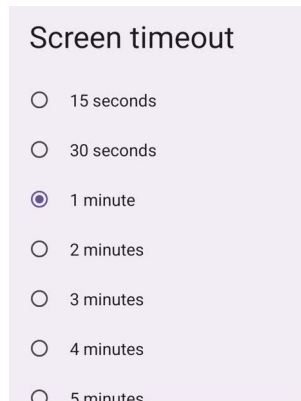
1. Tap **Settings > Datalogic Settings > Power & sources:**
  - **External power** sets the number of seconds without user input activity before the system is suspended while running on external power.



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



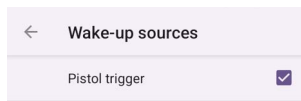
2. Tap **Settings > Display > Screen timeout** to set the number of seconds without user input activity before the system is suspended while running on either battery power or external power.



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.

## Wake-Up Policies

The default wake-up source is the pistol trigger. Tap **Settings > Datalogic Settings > Power & sources > Wake-up sources** to enable/disable the wake-up source.



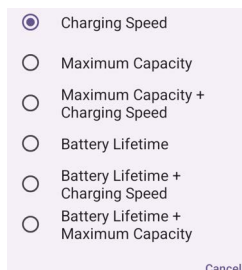
## Battery Management

### Charging Policies

#### Battery Charging Profile

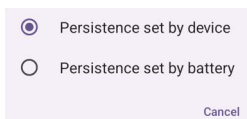
This setting allows to customize the charging process according to the user's needs and priorities.

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

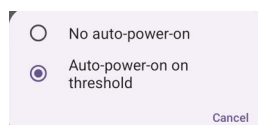


#### Off-Mode Charge

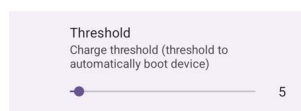
Controls how the charge behaves when the device is powered off.

##### Policy

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

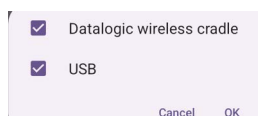


Drag the **Threshold** slider to set the threshold for automatic start.



#### Charging Sources

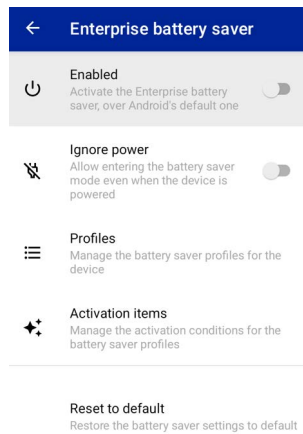
Allows to select the charging source of your device.



## Battery Optimizations

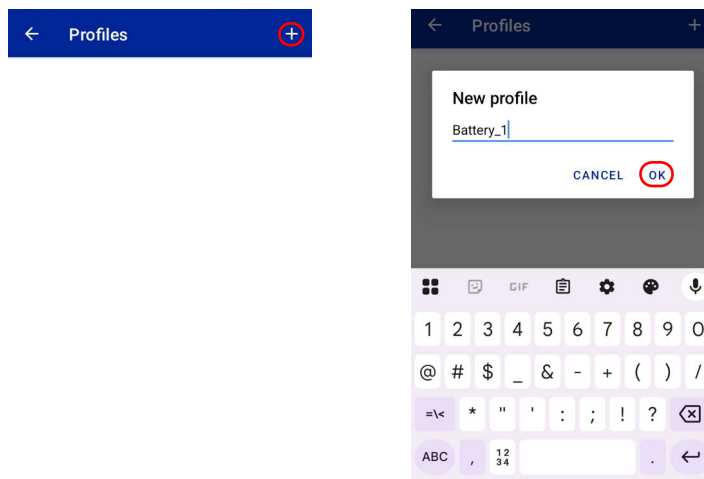
### Enterprise battery saver

Enables enterprise battery saver feature, which applies a battery saver profile (a set of device operating conditions) when activation conditions are met.

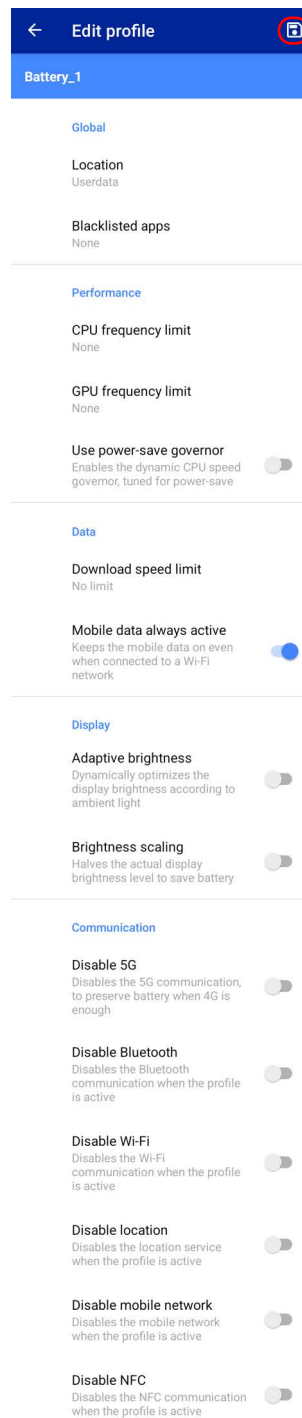


Enable **Ignore power** to apply enterprise battery saver when device is connected to an external power source.

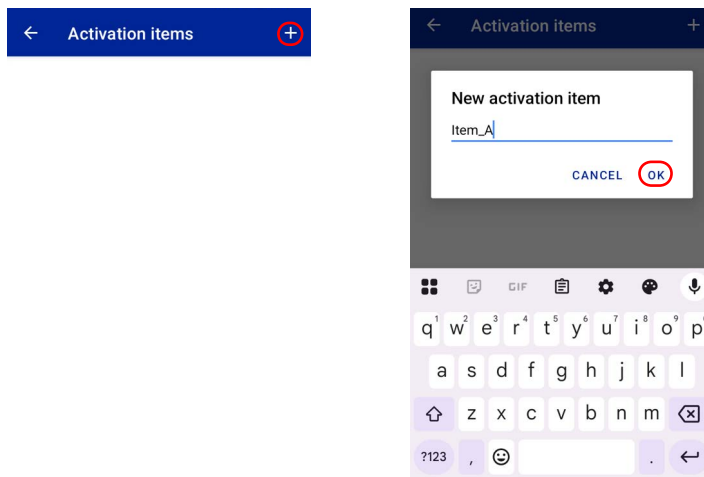
Tap **Profile** > + to create a battery saver profile. Assign a name and tap **OK**.



Use the **Edit profile** screen to configure the profile. Tap the save icon on the right top to save the profile.



Tap **Activation items** > + to add an activation item and manage the activation conditions for the battery saver profiles. Assign a name and tap **OK**.

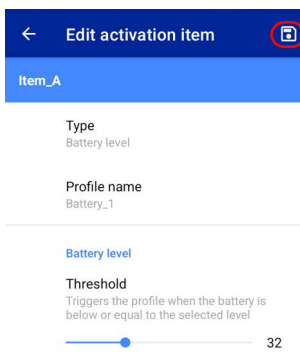


Use the **Edit activation item** screen to configure the profile.

**Type** - you can choose to trigger a battery saver profile according to the power source, the pocket mode state, the battery level, or the current device connection. You can also set a time interval for the profile activation.

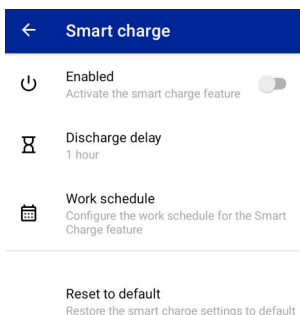
**Profile name** - select the profile that will be triggered by the activation item.

Tap the save icon on the right top to save the profile.

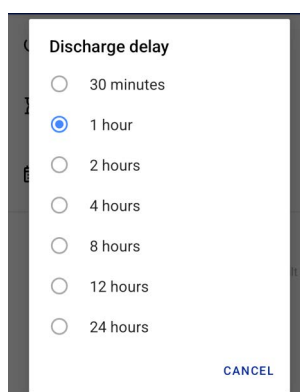


### Smart Charge

Enables smart charge feature, allowing the user to configure the charging schedule to reduce battery degradation.



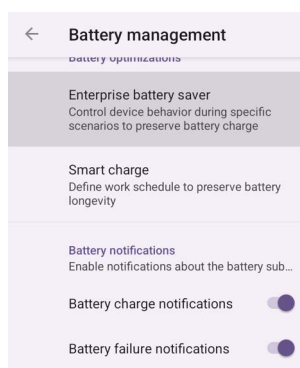
Tap **Discharge delay** to set maximum time the battery remains at full charge, before it begins to discharge.



Tap **Work schedule** to define the time the device is being used. The smart charge feature will optimize battery charging to provide a fully charged battery by the next working time.

### **Battery Notifications**

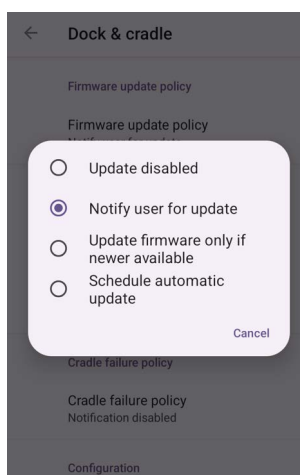
Enables charging and power failure notifications.



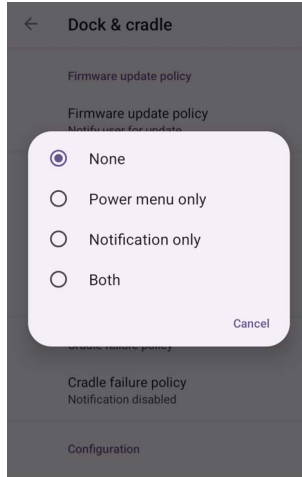
## **Dock & Cradle**

Allows you to manage the dock's firmware update, unlock policy, and dock failure notification through the **Dock Manager** application (see "[Dock Manager](#)" on page 97).

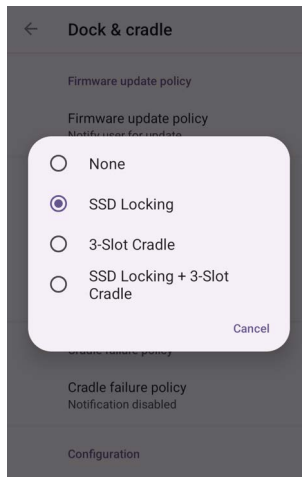
Tap **Firmware update policy** to enable update notification or to schedule an automatic update.



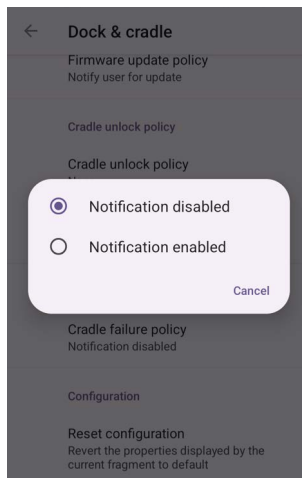
Tap **Cradle unlock policy** to manage notifications for lever status changes.



Tap **Cradle unlock notification policy** to manage unlock notifications for specific dock models.



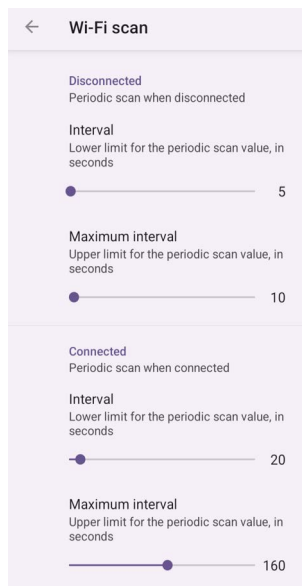
Tap **Cradle failure policy** to enable/disable failure notifications.



## Wi-Fi

### Wi-Fi Scan

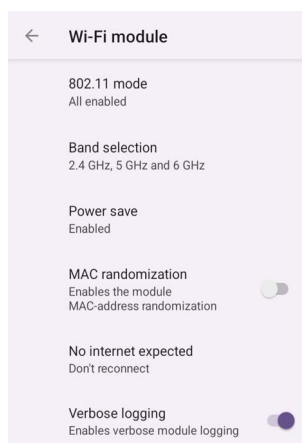
Use the **Wi-Fi scan** Settings to set the interval between scans when the device is connected and when it is disconnected.



### Wi-Fi Module

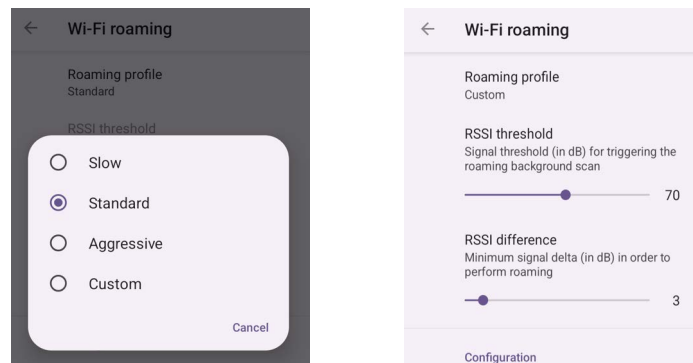
Use the **Wi-Fi module** settings to select the 802.11 mode and the band, and to enable/disable power save and the verbose Wi-Fi module logging.

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

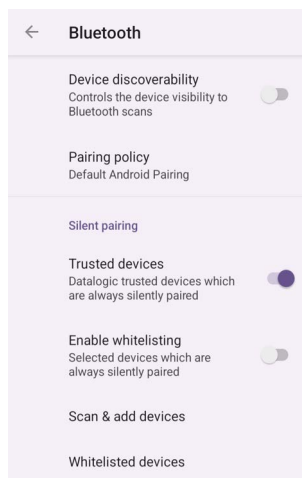
It controls the signal difference between the current access point the device is connected to and the target access point the device wants to roam to. If the target AP signal is higher than the current by at least the value of this parameter, the device will roam.

## Ethernet

The Joya Smart & Smart+ do not support Ethernet connection.

## 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

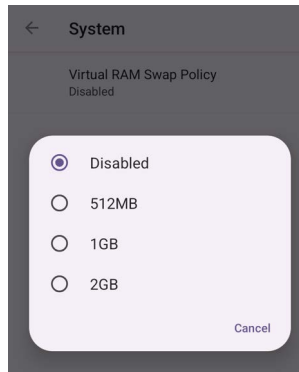
Use the silent pairing settings to enable whitelisting, select and show the devices that can be silently paired.

## USB

Use USB connection only to debug the device (maintenance technicians only, see "USB Debug" on page 111).

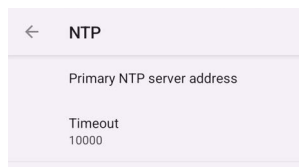
## System

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



## NTP

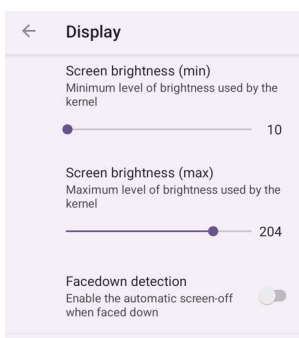
Tap **NTP** to set the NTP server addresses and to configure the NTP timeout.



## Display

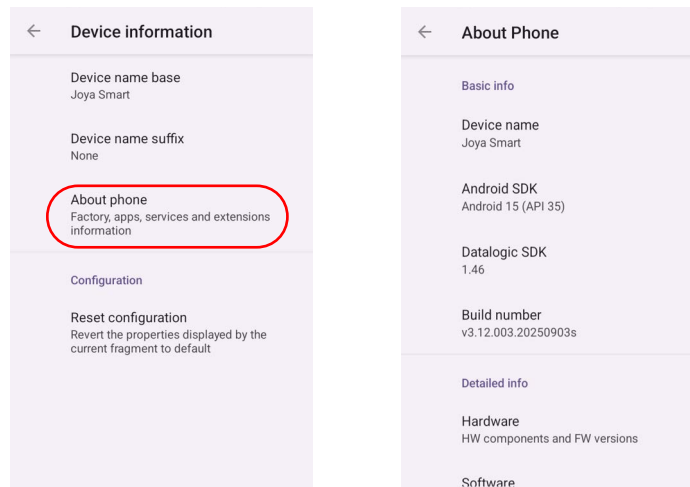
Use the **Screen brightness** sliders to set the minimum and maximum level of the display brightness.

The **Facedown detection** setting enables the automatic screen-off when the device is faced down.



## Device Information

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



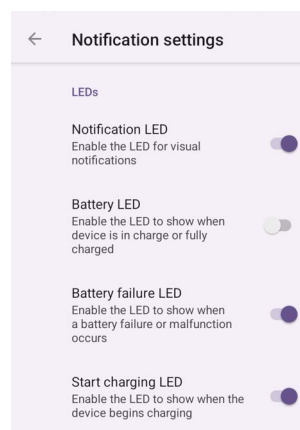
## UI/UX Settings

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.

### LEDs

Tap **Datalogic Settings > UI/UX settings > Notification Settings >** to configure the notification LED behavior.



## Application Policies

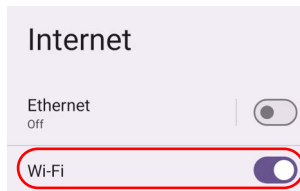
Enables/disables the application policies notification and allows to associate the configuration policies to specific applications.

# ANDROID SETTINGS

## Network & Internet

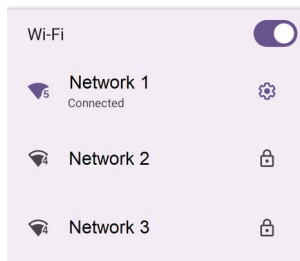
### Connect to Wi-Fi Network

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



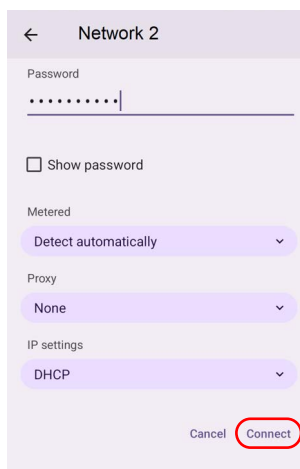
If the device finds a network that you connected to previously, it will connect to it automatically.

The device also scans for available Wi-Fi networks within range and lists them. Secured networks are indicated with a lock icon.



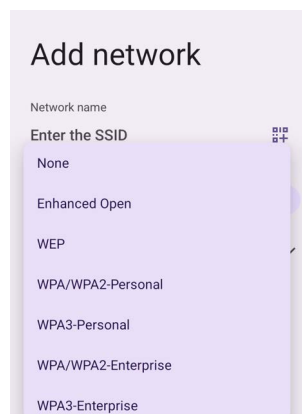
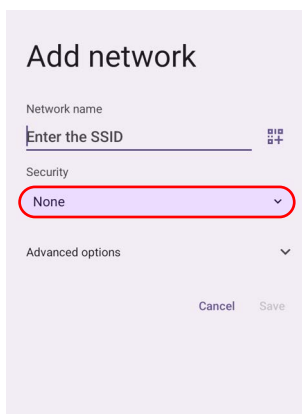
2. Select the network name you want to connect to from the available network list.
3. If the network is open, tap the profile and then tap **Connect**, or press and hold and then select **Connect**.

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**:



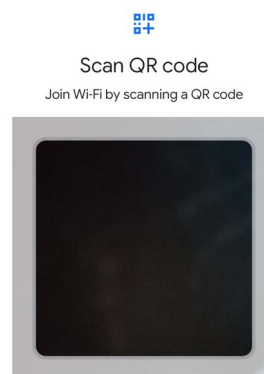
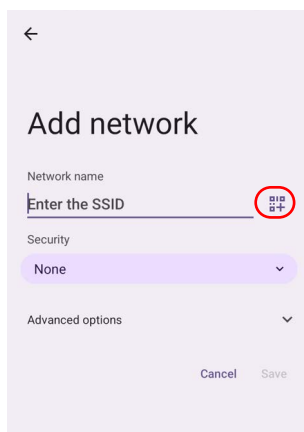
## Add a Wi-Fi Network

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.



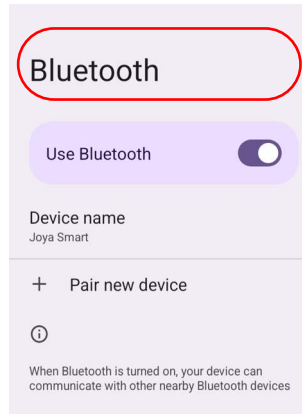
## Connected Devices

### 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.

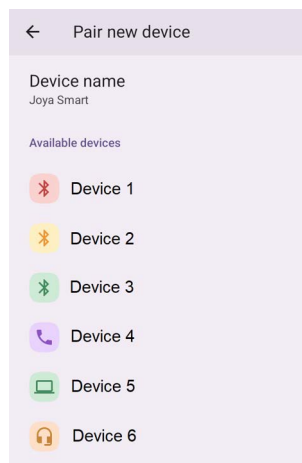
#### Enable Bluetooth®

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

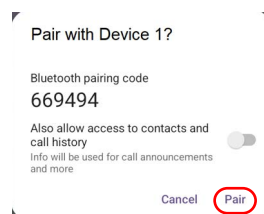


### Connect to Other Bluetooth® Devices

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:



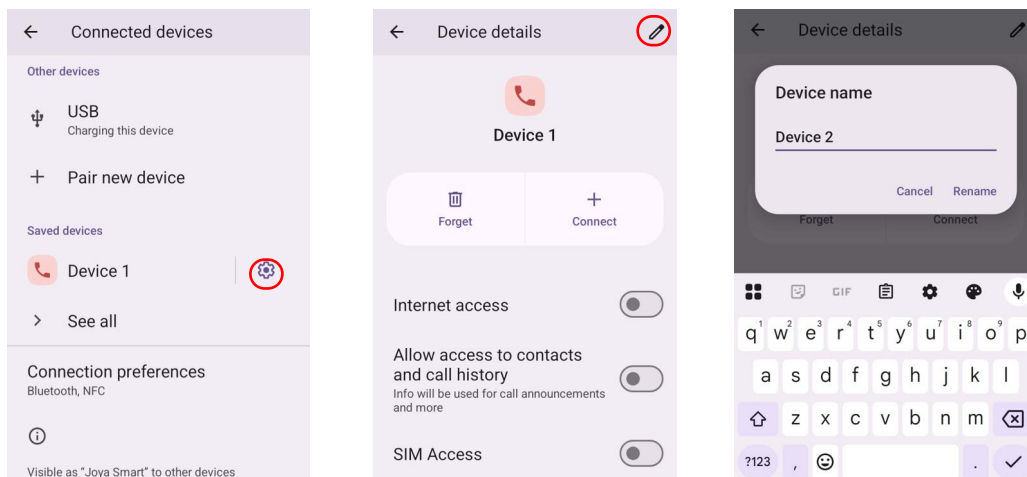
3. Make sure both devices show the same passkey and tap **Pair**.

- The selected Bluetooth® device is added to the **Saved devices** list and a paired connection is established.

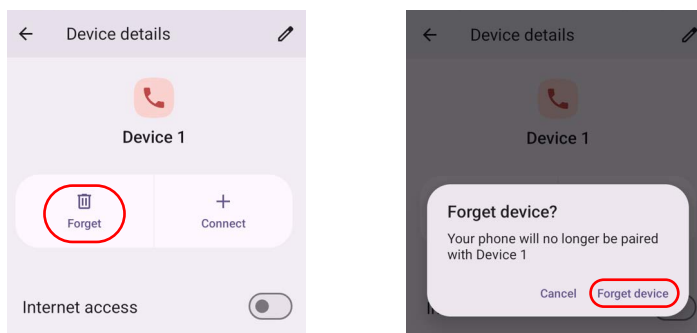
### Configure, Rename or Unpair Bluetooth® Devices

Tap **Settings > Connected devices**.

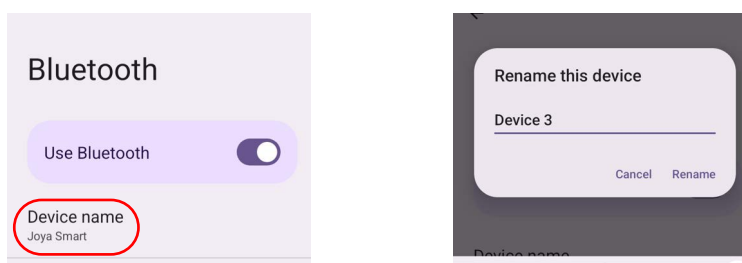
Select a device under **Saved devices** and tap the settings icon next to its name. The **Device Details** window displays on the screen. Type the **Edit** icon to rename the paired device.



Tap **FORGET** to unpair:



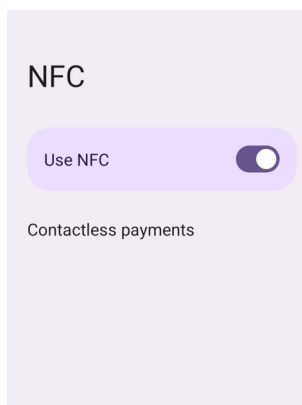
To rename your device, tap **Settings > Connected Devices > Connection preferences > Bluetooth > Device name**. Type in the new name.



Tap **Rename** to confirm.

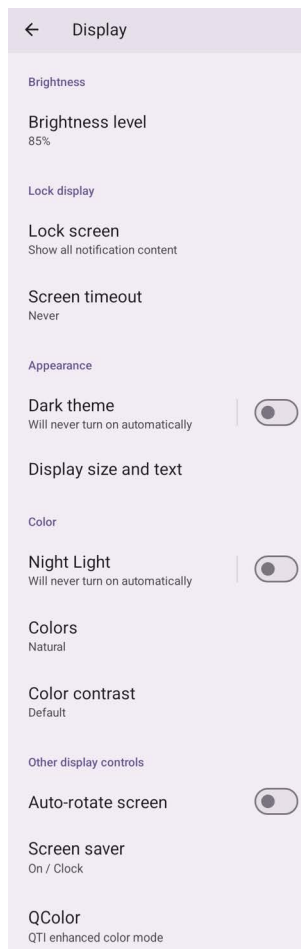
## NFC

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



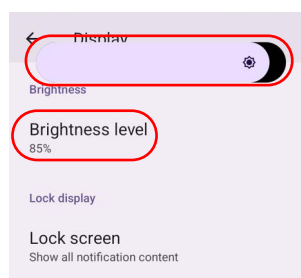
## Display

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.



### Lock Screen

Tap to customize your lock screen.

### Screen Timeout

Tap to set the suspend timeout (see "Suspend Timeout" on page 63).

### Dark Theme

Tap to enable black background.

## Display Size and Text

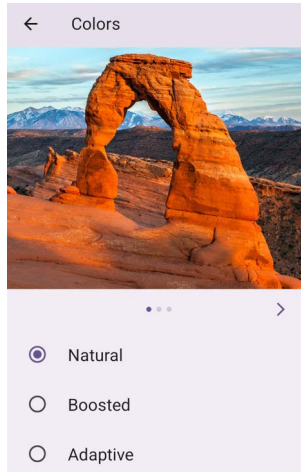
Tap to set the size of the items on your screen and to customize the font.

## Night Light

Tap to enable Night Light and adjust its intensity.

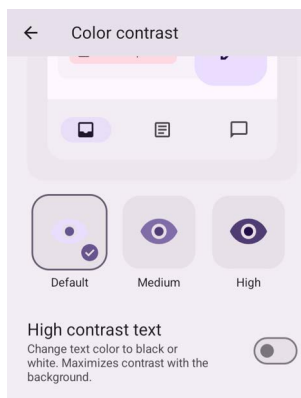
## Colors

Tap to adjust the display colors and select a preset color mode.



## Color Contrast

Tap to adjust display color contrast and change the text color to maximize contrast with the background.



## 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.

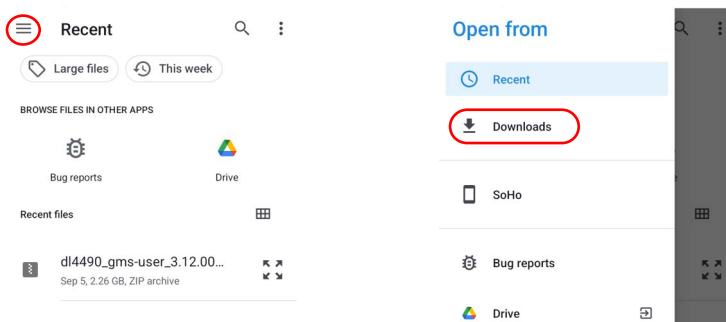
To transfer the OTA package from your PC to the device, follow the steps below:

1. Connect the device and the PC via USB cable (see "USB Debug" on page 111);
2. Copy the OTA package to the device **Download** folder;

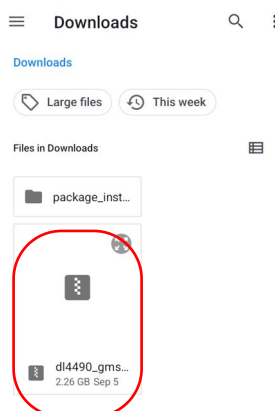
From the **Settings** menu, tap **System > System Updates > Local Update**.



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

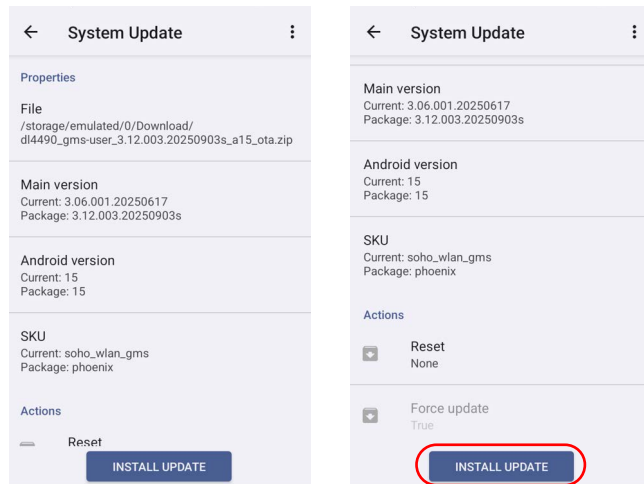


Select the update package you want to install.



**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:

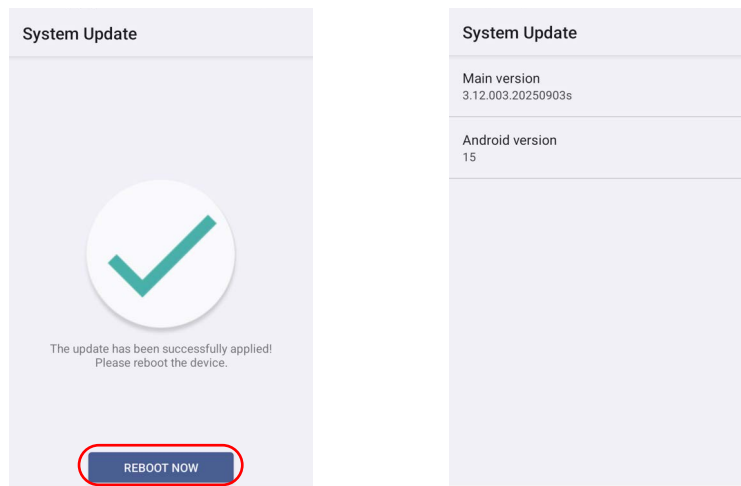


The **PROPERTIES** section shows information about the device model and OS version and the update package version.

The **ACTIONS** section allows to:

- reset the device configuration after the update (see "[Reset the Device](#)" on page 24).
- 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.

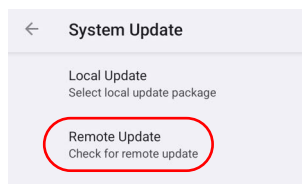


**NOTE: During the update, ensure that:**

- **battery level is more than 20% if the device is not connected to a power source;**
- or**
- **battery level is more than 15% if the device 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**.



Your system is up to date

Android version: 15  
Android security update: September 5, 2025

Last successful check for update:  
Oct 22

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:

1. Perform a full shutdown by pressing and holding the reset key with a metallic clip for about 15 seconds (see "Hard Reset" on page 26).
2. Press and hold the metallic clip into the reset key while holding the scan trigger, and release them a couple of seconds after the device vibrates.



**NOTE: If you release both keys immediately after vibration, the device enters bootloader mode. If you release both keys more than four seconds after vibration, the device powers off.**



3. The device turns on in Recovery Mode.

```

Android Recovery
Datalogic/phoenix/phoenix
12/3.12.003.20250903s/3.12.003.20250903
user/release-keys
Use volume up/down and power.
Reboot system now
Reboot to bootloader
Enter fastboot
Apply update from ADB
Apply update from SD card
Factory reset
Enterprise reset
Mount /system
View recovery logs
Run graphics test
Run locale test
Power off
  
```

4. Use a finger on the TouchScreen to scroll the Recovery Menu. Press the scan trigger to select one of the available options (select **Reboot system now to reboot**).



**NOTE: In Recovery mode, you can only apply updates from external storage (see "Local Update" on page 83).**

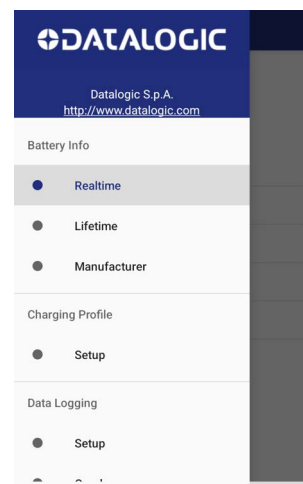
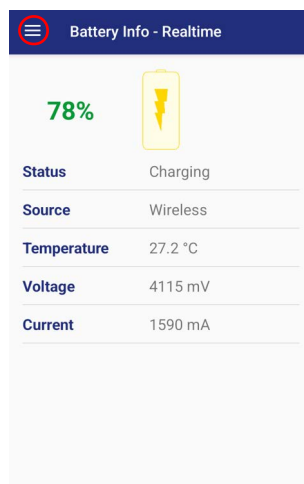
# DATALOGIC UTILITIES

---

## 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.

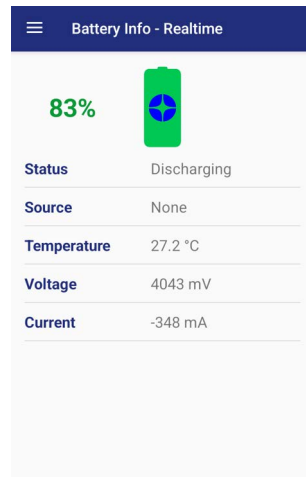


## Battery Info

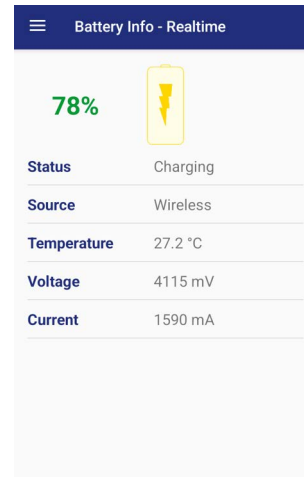
The **Battery Info** section provides information about the battery's health, capacity, manufacturer, level and charging status.

### 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

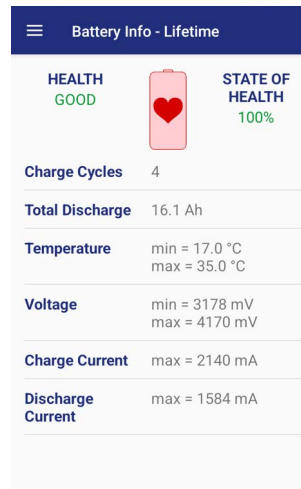
Displays the real-time voltage.

#### 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.



Battery Info - Lifetime	
HEALTH GOOD	STATE OF HEALTH 100%
Charge Cycles	4
Total Discharge	16.1 Ah
Temperature	min = 17.0 °C max = 35.0 °C
Voltage	min = 3178 mV max = 4170 mV
Charge Current	max = 2140 mA
Discharge Current	max = 1584 mA

### 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, and the manufacture date of the battery.



<b>Model</b>	AEL-BY-203
<b>Technology</b>	Li-ion
<b>Product Number</b>	126020300
<b>Firmware Version</b>	RevA00
<b>Serial Number</b>	VB250602466
<b>Manufacture Date</b>	06-2025
<b>Design Capacity</b>	3008 mAh
<b>Rated Capacity</b>	3400 mAh

## Charging Profile

### Charging Profile - Setup

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

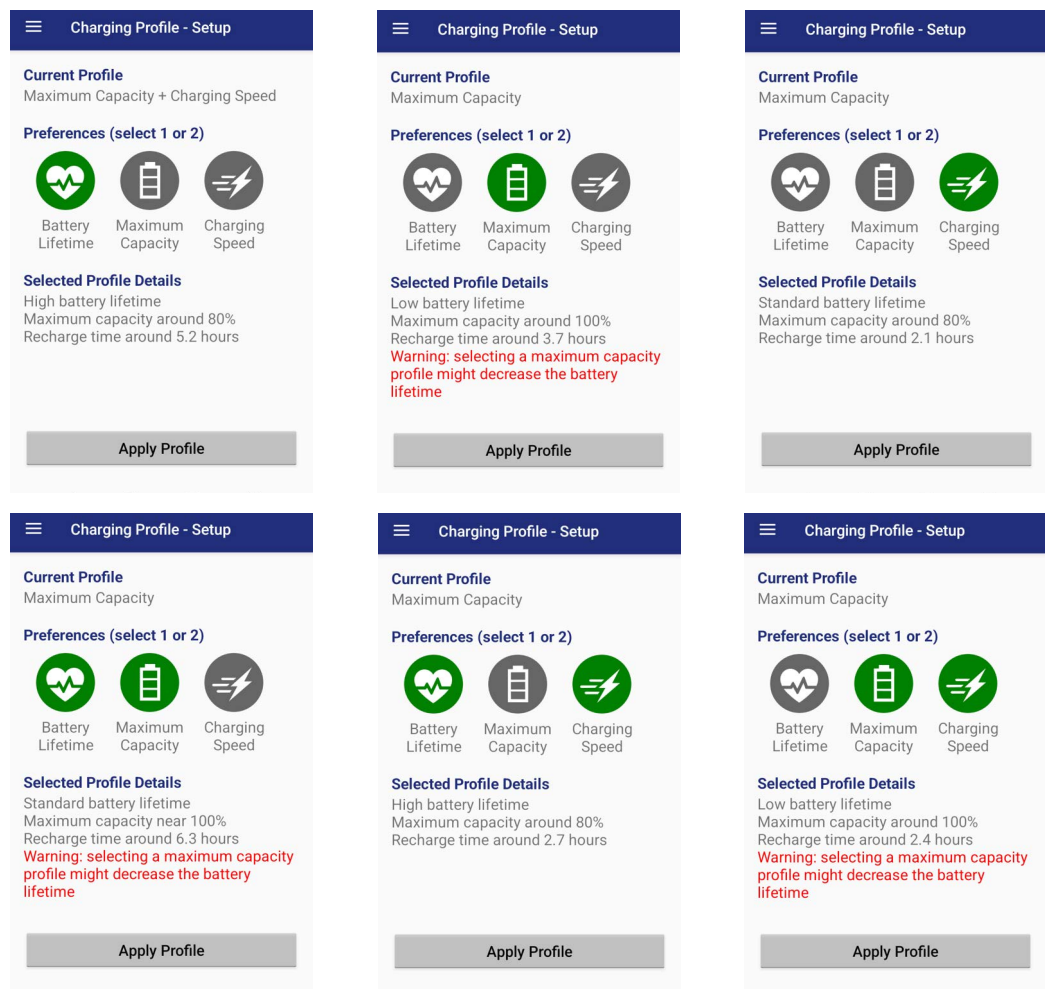
To configure a charging profile, select 1 or 2 of the following preferences:

- 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.

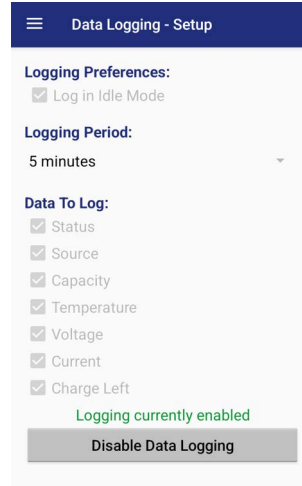
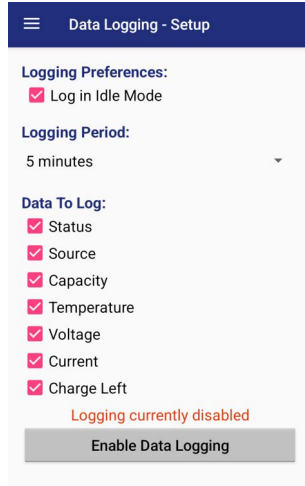
## Data Logging

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

### Setup

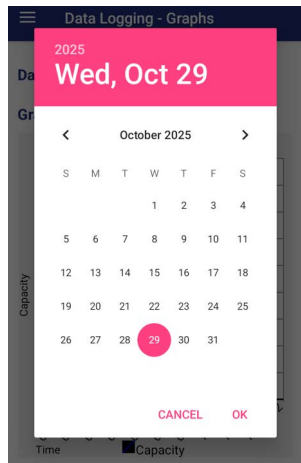
Use the **Setup** window to select the data you want to log.

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.

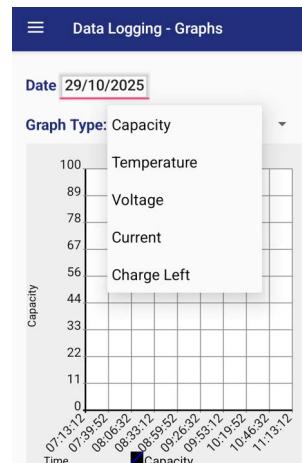


### Graphs

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



Select Date



Select Data

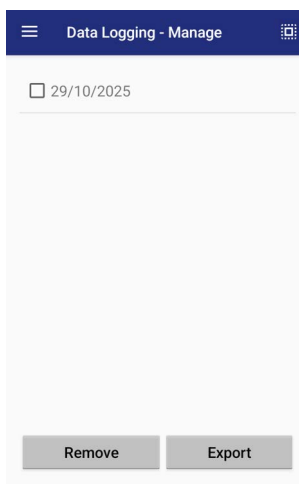
## Logs

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

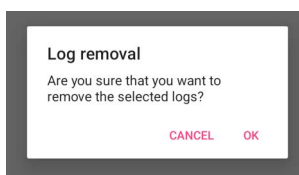


## Manage

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



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



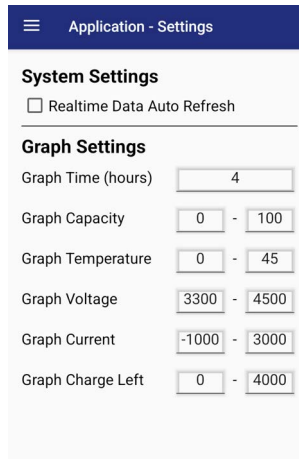
Select one or more logs and tap **Export** to export data and store them for extended periods.

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

# Application

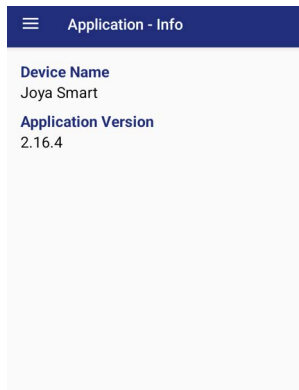
## Settings

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



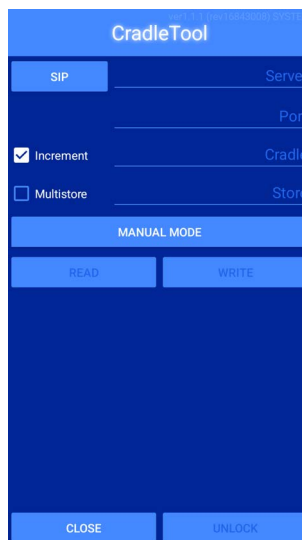
## Info

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



# CRADLETOOL

Use this app to configure the dock's slot.



Tap **SIP** to open the Software Input Panel (virtual keyboard).

Tap **MANUAL MODE** to toggle between manual mode and automatic configuration mode. Switch to **AUTOMATIC MODE** in case of multiple cradles configuration.

## Server

Enter the Master Server or Server Standalone IP address.

## Port

Enter the TCP port "8080".

## Increment

Check to set a sequential configuration of multiple docks

## Multistore

Check in case of multistore installation. Enter the unique store ID in the **Store** field.

## Cradle

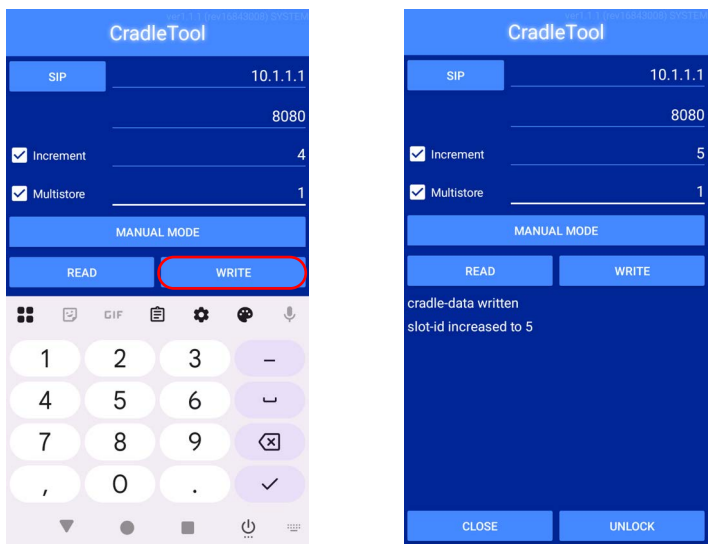
Enter the slot number you want to configure (starting slot in case of multiple docks configuration).

Insert the device into the slot you want to configure; the dock locks the device in the slot. If **AUTOMATIC MODE** is not enabled, tap **WRITE** to configure the dock.



**NOTE: Each slot of the 3-Slot Dock Wireless Charging needs to be programmed separately.**

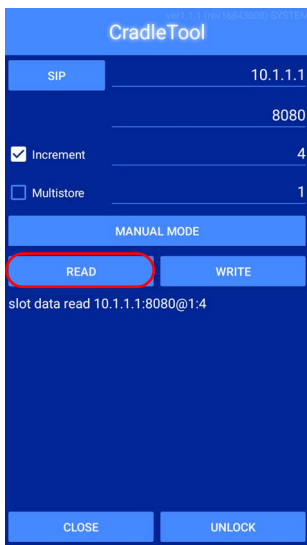
A confirmation message will appear. In case of multiple docks configuration, the slot-id is automatically incremented.



Tap **UNLOCK** to unlock and remove the device.

Tap **CLOSE** to quit the application.

To verify the settings, toggle to **MANUAL MODE**, check **Multistore** if necessary, insert the device in the slot, and tap **READ**. A confirmation message will appear.



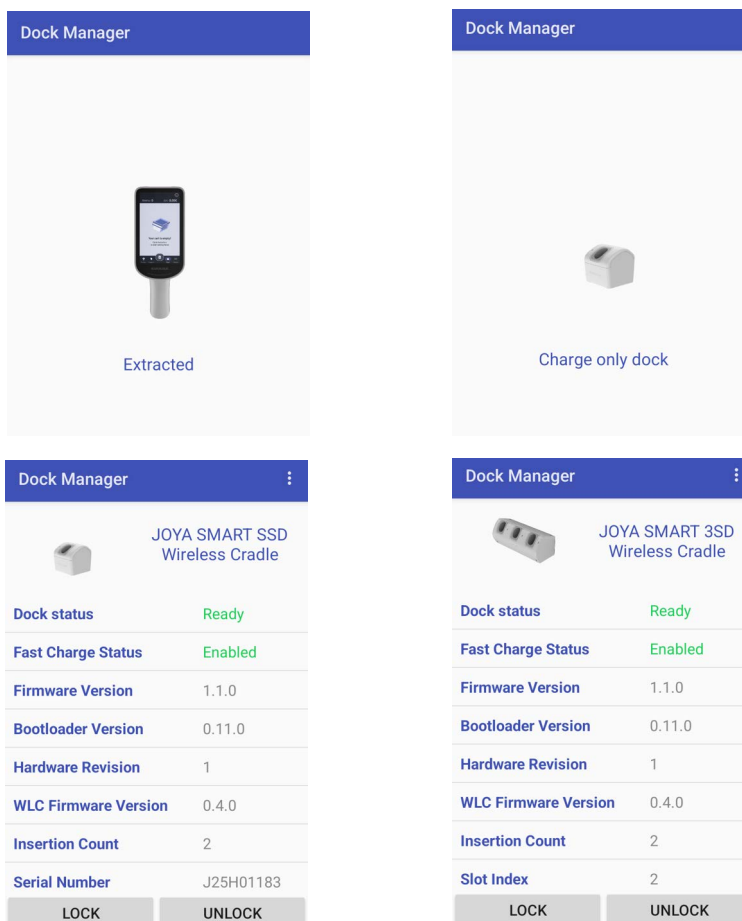
Tap **UNLOCK** to unlock and remove the device.

Tap **CLOSE** to quit the application.

## DOCK MANAGER

This application provides information about the cradle you're currently using and allows to enable/disable some of its properties.

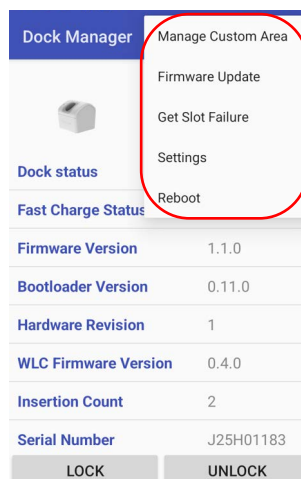
Below are some screenshots showing different cradle options:



- **Dock Status** - Can be **Ready** or **Error**.
- **Fast Charge Status** - Can be **Enabled** or **Disabled**. Fast Charge is enabled by default, it is disabled when docks are daisy chained.
- **Insertion Count** - Tracks how many times a device has been inserted into a slot.

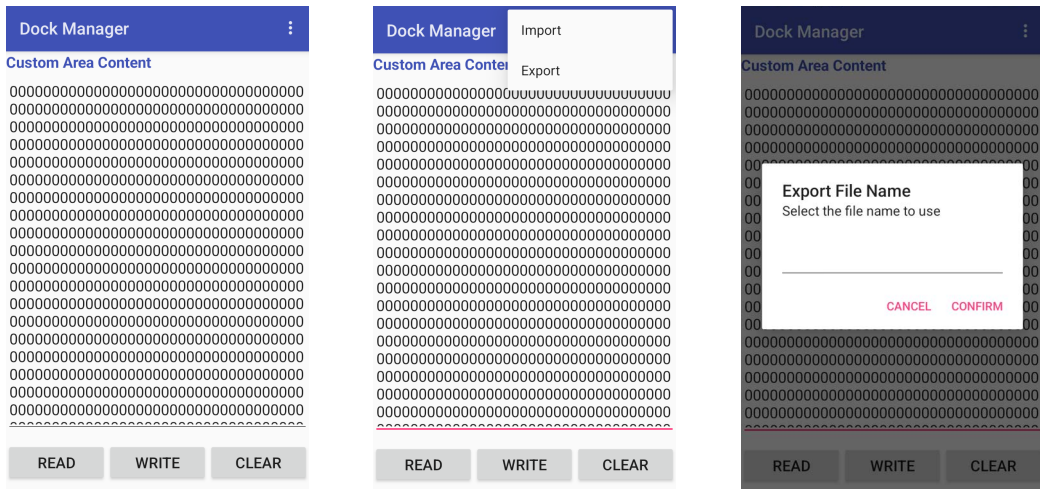
If the device is inserted into the Single Slot Dock Wireless Charging w/Locking or into the 3-Slot Dock Wireless Charging, you can unlock and lock the device without using the unlock key, by tapping the **UNLOCK** and **LOCK** buttons.

Tap the menu icon on the right top of the screen for further details and options.



## Manage Custom Area

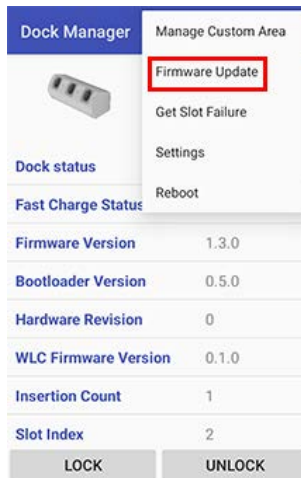
Displays, edits, and exports data in the dock's custom area.



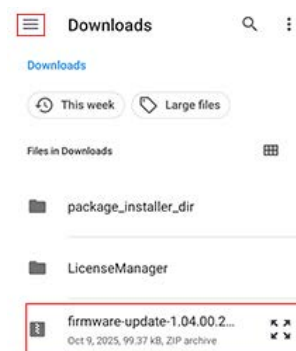
## Firmware Update

To update the Dock Manager firmware, follow the steps below:

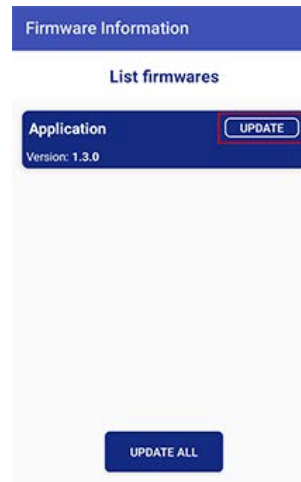
1. Copy the update package file to the device Download folder.
2. Tap the menu icon on the right top of the screen and select Firmware Update.



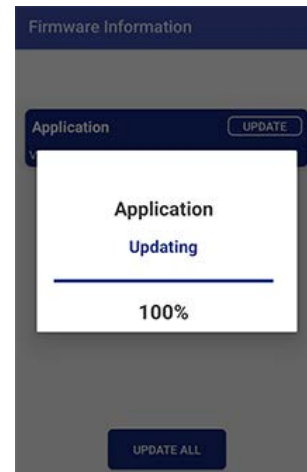
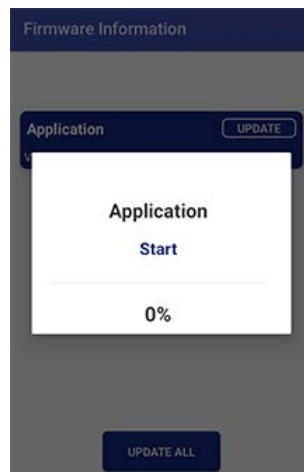
3. Tap the menu icon on the top left corner of the screen and select Downloads. Select the update package you want to install.



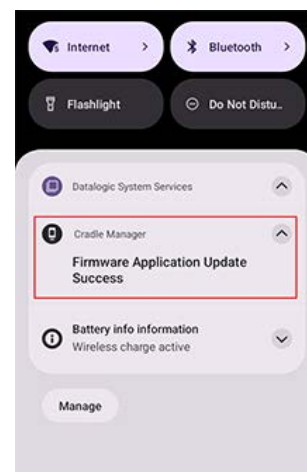
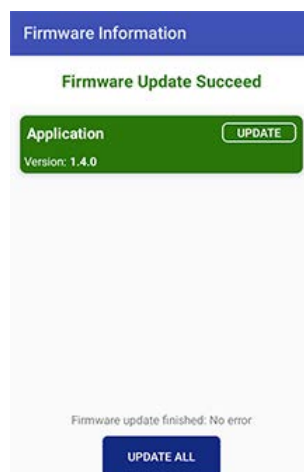
- The following window displays on screen, showing the available updates. Tap the UPDATE button on the right of the update package you want to install. In case more update packages are available, tap UPDATE ALL to install them all.



- The application update will start.



- When the update is complete, a success notification will appear on the screen.

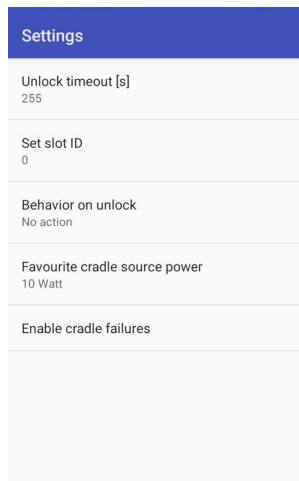


## Get Slot Failure

Displays a report of the last occurred fails of the slot.

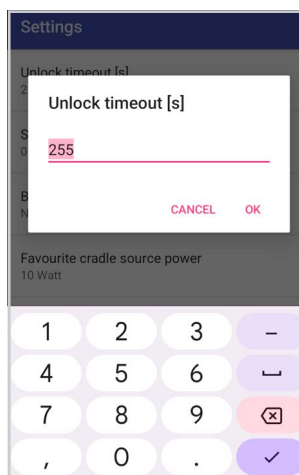
Failures	
Active failures	
Last occurred failures	
<b>FAILURE_GENERAL</b>	Appearance Time: <b>Never happen</b>
<b>FAILURE_WLC_FOD</b>	Appearance Time: <b>Never happen</b>
<b>FAILURE_BAD_LEVER_POSITION</b>	Appearance Time: <b>Never happen</b>
<b>FAILURE_SOLENOID</b>	Appearance Time: <b>Never happen</b>

## Settings



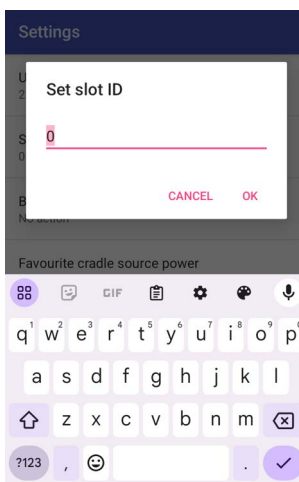
### Unlock Timeout

You can set the time available to the user to remove the dock after tapping the **UNLOCK** button. Tap **Unlock timeout [s]** to set your desired unlock timeout (seconds).



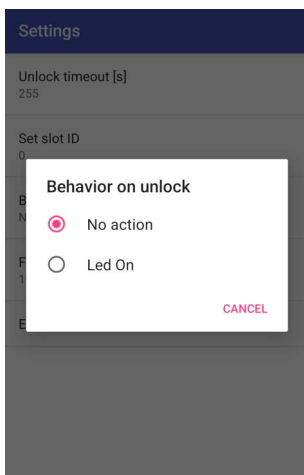
### Set Slot ID

Sets the ID of the slot into which the device is inserted.



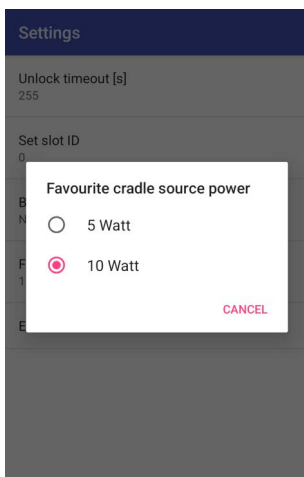
## Behavior on Unlock

Select **Led On** to turn on the LED when the device is unlocked.



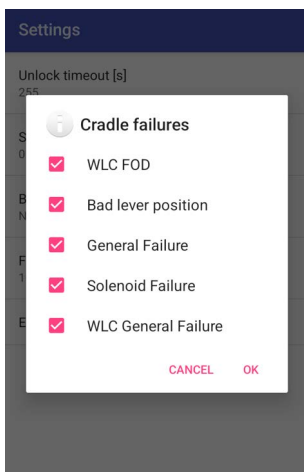
## Favourite Cradle Source Power

Allows to select the favourite source power for the dock. Options are: 5 Watt and 10 Watt.



## Enable Cradle Failures

In case of a failure notification, it displays the reason of the failure.

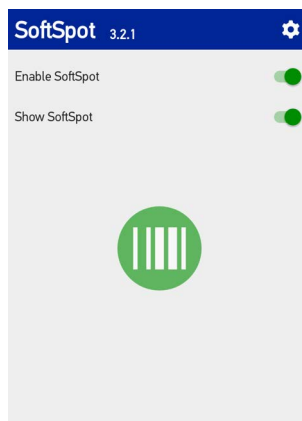


## SOFTSPOT™

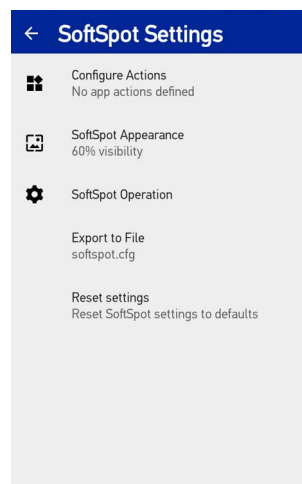
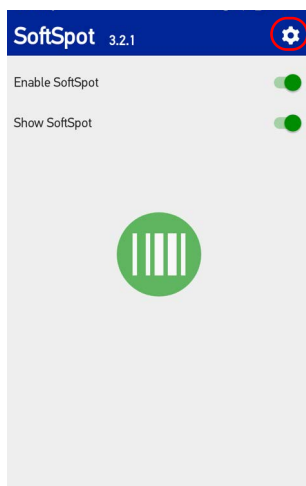
Datalogic's SoftSpot technology is a user-definable "floating soft trigger" meant to provide easy access to the barcode scanner application and other frequently used functionalities on mobile scanning devices.

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.

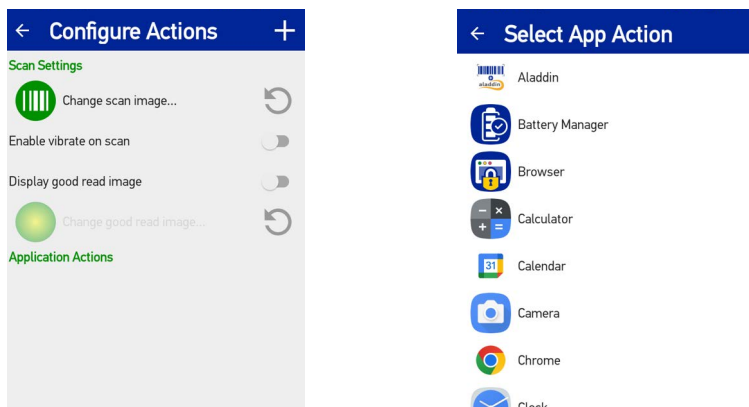


Tap the Settings icon on the top right corner to configure the SoftSpot settings.

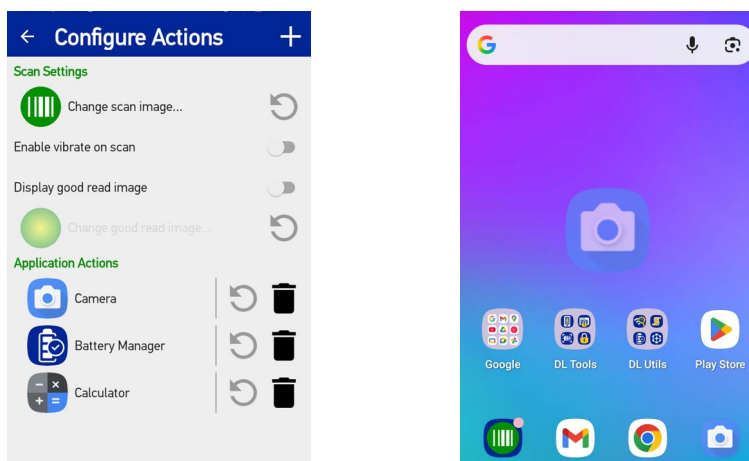


## Configure Actions

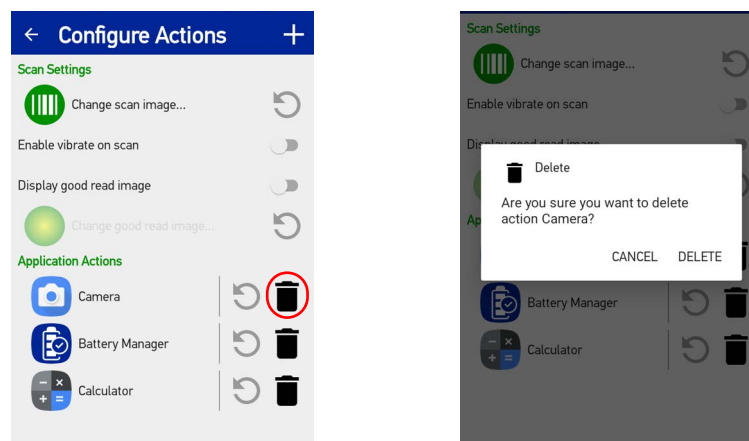
You can use SoftSpot to quickly switch between the applications you actively use. From the SoftSpot settings screen, tap **Configure Actions** > + to add the applications you want to launch with SoftSpot.



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.



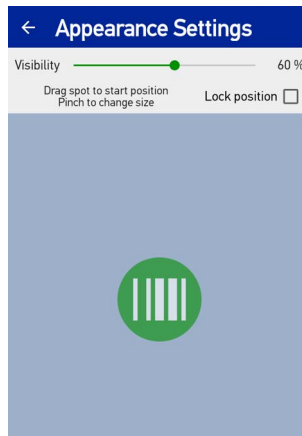
You can also use the **Configure Actions** screen to change the SoftSpot image, to display and change the good read image and to enable the vibrator.

## SoftSpot Appearance

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

Pinch to change the SoftSpot size.

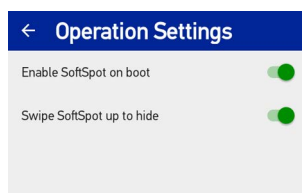
Flag the **Lock position** checkbox to lock the position of the SoftSpot on your screen.



## SoftSpot Operation

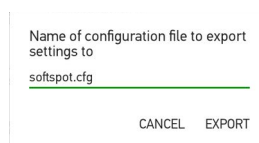
Tap SoftSpot Operation to:

- 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.

## 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 ALADDIN

Datalogic Aladdin is a mobile application designed to run on android platforms that allows users to pair and access various features and settings of a CODiScan scanner. Aladdin interacts with the CODiScan via BLE protocol. The application uses this communication approach to configure and receive scan data from the CODiScan scanner.

For more details, visit the website: <https://datalogic.github.io/aladdin/overview>.

# DATALOGIC TOOLS

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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>.

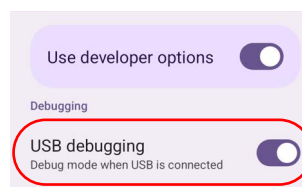
## Install ADB Driver

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>.

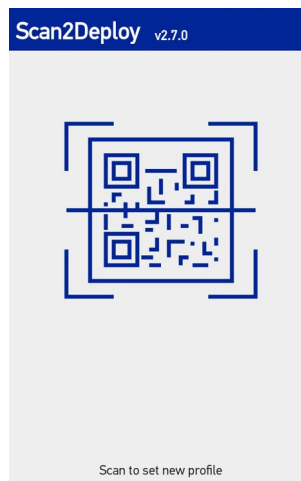
## WI-FI QR CODE GENERATOR

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>.

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## 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

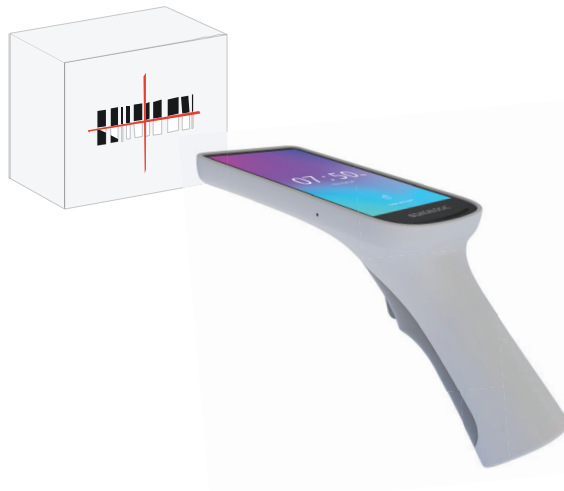
---

The Joya Smart & Smart+ embed the new Datalogic Halogen™ DE2121-DL scan engine with Green Spot technology.

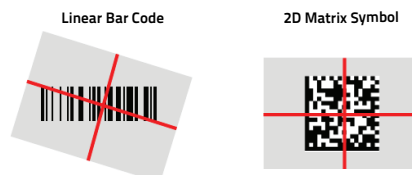
See "[Scanner & Decoder](#)" on page 29 for instructions on configuring the scanner settings.

To scan a barcode symbol:

1. Point the scan window at the barcode from a distance within the reading range.
2. Press the scan trigger. The imager projects a laser aiming pattern similar to those used on cameras. The aiming pattern 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.



If the scan has been successful:

- If enabled, the good read LED turns on.
- If enabled, the good read beep plays.
- If enabled, the Green Spot projects a green spot onto the barcode image.
- The barcode type and content data display on the screen.

The decode results display on the screen.

# CONNECTIONS

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## USB DEBUG

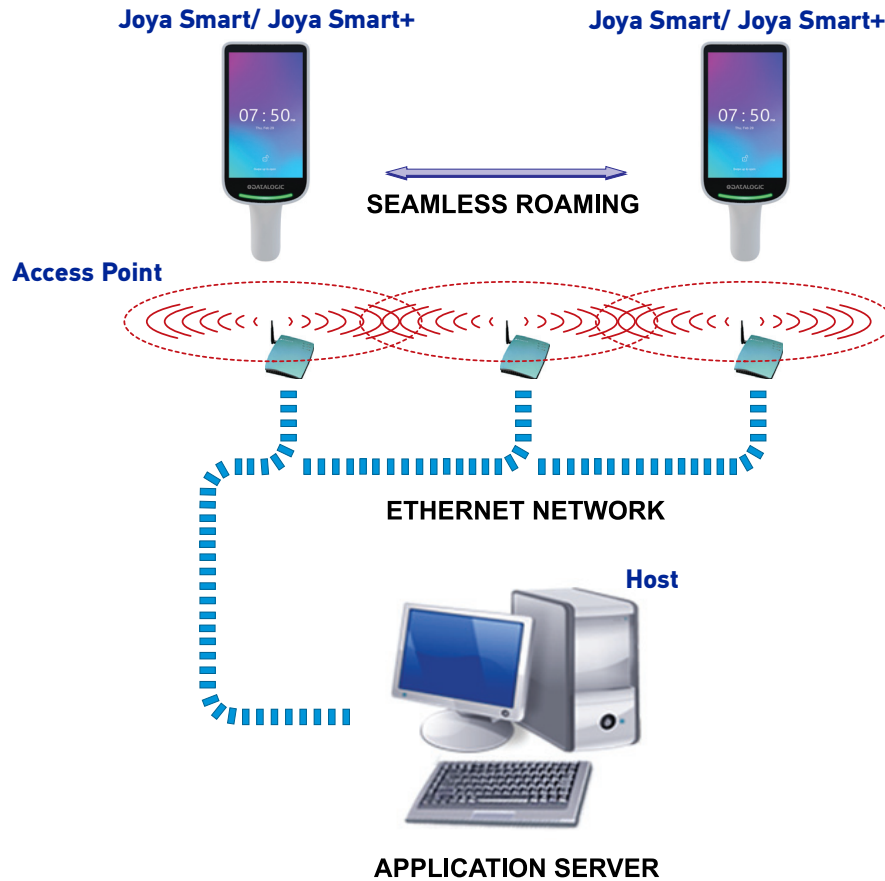
To debug the device (maintenance technicians only), remove the battery cover with a torx-5 screw driver to access the USB Type-C port. Use the Datalogic USB Type-C cable (p/n 94ACC0327).



**CAUTION: Disconnect the USB cable before inserting the device into a dock.**

# WI-FI CONNECTION

The Joya Smart & Smart+ have a Wi-Fi 6e IEEE 802.11 a/b/g/n/ac/ax and 802.11 d/e/h/i/k/r/v/w/mc 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.).

## BLUETOOTH® SERIAL CONNECTION

The Joya Smart & Smart+ 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 78).

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.

The Joya Smart & Smart+ 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 80).
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 the device.

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	214 mm x 77.8 mm x 104 mm / 8.42 in. x 3.06 in. x 4.09 in
Weight	With Battery: 303g/ 10.68 oz
Primary Display	5-inch color HD (1280x720); optically bonded to touch panel glass; 450 NITS
Keys	Physical Keys: 1 scan trigger
Touch Panel	Touch Screen: 5 points multi-touch capacitive panel with Gorilla Glass 3 and optical bonding; Support for gloves and stylus; water drops rejection and antifingerprint surface finishing
ELECTRICAL	
Battery	Replaceable battery pack with rechargeable Li-Ion Battery 3,500 mAh capacity
Wireless Charging	WPC Qi EPP compliant; 10W charging
SENSORS	
Vibration	Software programmable for duration and intensity
Accelerometer	3-Axis accelerometer to detect orientation
Gyroscope	Senses angular velocity
Magnetometer	E-compass for direction and orientation detection
Barometer	Atmospheric pressure / Z-location
ToF	Time of Flight
LOCATIONING	
Indoor locationing	Integrated IMU sensors compatible with third party indoor locationing software solutions

ITEM	DESCRIPTION
<b>ENVIRONMENTAL</b>	
<b>Drop Resistance</b>	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.
<b>Tumbles</b>	1000 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.
<b>Sealing</b>	IP54
<b>Chemical Resistance</b>	General purpose chemical cleansers: Chemical agents against which the device is resistant; sopropyl alcohol 70% (IPA) / Alcohol Wipes 70% Glassex with ammonia / Formula 409® Glass and Surface Cleaner Glassex with ammonia / Windex® Water solution of Sodium Hypochlorite 0,8% / Clorox® Bleach Ethyl alcohol 70% Hydrogen peroxide 3%
<b>Temperature</b>	Operating: -10 to 50 °C / 14 to 122 °F Storage/Transport: -40 to 70 °C / -40 to 158 °F
<b>ESD</b>	15kV air discharge / 8kV contact discharge
<b>SYSTEM</b>	
<b>Memory</b>	6 GB RAM / 64 GB Flash Storage
<b>Microprocessor</b>	Qualcomm QCS4490 Kryo Octa-core 2.4 GHz
<b>Operating System</b>	Android 15, upgradeable up to Android 19
<b>Real-Time Clock</b>	Time and date stamping under software control
<b>READING PERFORMANCE</b>	
<b>Camera</b>	<b>Rear Camera:</b> Resolution: 13 megapixel; Auto focus <b>Illumination:</b> User controllable LED flash (torch mode)
<b>Scan Engine</b>	Halogen™ DE2121-DL 1D/2D scan engine; Datalogic's 'Green Spot' for good-read feedback
<b>INTERFACES</b>	
<b>Interfaces</b>	High Speed USB 2.0 (Type-C) for device maintenance






ITEM	DESCRIPTION
<b>SOFTWARE</b>	
DATALOGIC MOBILITY SUITE - <a href="https://datalogic.github.io">Discover more on: datalogic.github.io</a>	
<b>Protection</b>	Shield - Android Security Updates. Launcher - to lockdown device to kiosk mode. Entreprise Browser - for secure browsing. Integrity KIT - to safeguard HW interfaces.
<b>Configuration</b>	Scan2Deploy - configure, stage and enroll device. OEMConfig - for UEM/EMM compatibility. AE QR Generator - for easy EMM/UEM enrollment. DockManager - manage firmware, locking, and settings of dock. CradleTool – Configure a series of docks. Wi-Fi QR Generator – Enroll device with Wi-Fi network.
<b>Development</b>	SDKs (Java, Kotlin, Xamarin, .NET, MAUI, JavaScript). Visual Formatter – visually code flow for barcode formatting. Wedge - configurable barcode scanning input methods.
<b>Optimization</b>	Logger - collect advanced device events log. Wi-Fi Guard - collect Wi-Fi data and statistics. Battery Manager – collect battery usage data and optimize power, including Enterprise Battery Saver - optimize battery consumption by tailoring device behavior to contextual triggers, and Smart Charge - extend battery life by syncing device charge schedule to your operations. Snap OCR - digitizes text, streamlining data entry label parsing. Pocket Mode - prevents mis-operation of the touch screen while the device is in your pocket
<b>Empower</b>	SoftSpot - draggable touch scanner trigger. QuickBoard – customizable on-screen virtual keyboard. Aladdin - seamless integration of the Datalogic CODiScan.
<b>Additional Features</b>	
<b>Provisioning</b>	Android Zero-Touch, Android Enterprise QR Code, NFC Bump, EMM Token, DPC Identifier enrollment
<b>UEM/EMM</b>	SOTI MobiControl, VMWare Workspace One, Microsoft Intune, 42Gears Sure MDM, Ivanti Neurons, Ivanti and any OEM Config compliant UEM/EMM, Terminal Emulator and PTT; Compatibility Highlight Ivanti Velocity, StayLinked Smart TE, Zello PTT
<b>AUDIO</b>	
<b>Microphone</b>	1x mic
<b>Loudspeaker</b>	1x speakers 0,8W (1W short term) and 92dBA

ITEM	DESCRIPTION
<b>WIRELESS COMMUNICATIONS</b>	
<b>Local Area Network (WLAN)</b>	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
<b>Personal Area Network (WPAN)</b>	Bluetooth wireless technology v5.3 (Classic Bluetooth wireless technology and BLE)
<b>NFC Communication</b>	Support for the following standards: Tag types 2/3/4/5 (ISO14443-4 A/B; ISO15693; Mifare; Felica) Card emulator. Contactless payments and Apple ECP protocol supported. EMVCo RR PCD Level 1 Certified; Strongbox Secure Element
<b>SAFETY &amp; REGULATORY</b>	
<b>Agency Approvals</b>	The product meets necessary safety and regulatory approvals for its intended use
<b>Environmental Compliance</b>	Complies to EU RoHS
<b>WARRANTY</b>	
<b>Warranty</b>	1-Year Factory Warranty Additional Datalogic EaseofCare services available



# TEST CODES

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

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

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

2D Codes
<p data-bbox="724 237 948 268">Datamatrix ECC200</p>  <p data-bbox="783 405 885 436">Example</p>
<p data-bbox="678 461 995 492">Inverse Datamatrix ECC200</p>  <p data-bbox="783 689 885 721">Example</p>

# MAINTENANCE

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## CLEANING

Periodically clean the device using a soft cloth slightly dampened with only water or an approved cleaning agent.

List of allowed detergents:

- Isopropyl alcohol 70% (IPA) / Alcohol Wipes 70%y
- Glassex with ammonia / Formula 409® Glass and SurfaceCleanery
- Glassex with ammonia / Windex®y
- Water solution of Sodium Hypochlorite 0,8% / Clorox® Bleach y
- Ethyl alcohol 70%y
- 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.

## 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

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**NOTE: Read carefully this manual before performing any type of connection to the device.**

**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 "Charge the Device" on page 9.
- Use only the components and accessories supplied by the manufacturer for the specific Joya Smart being used.
- Do not attempt to disassemble the device, 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 device, disposal must be performed in compliance with the laws in force in your jurisdiction.
- Do not submerge the device in liquid products.
- For further information or support, refer to this manual and to the Datalogic web site: [www.datalogic.com](http://www.datalogic.com).




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

# TECHNICAL SUPPORT

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## SUPPORT THROUGH THE WEBSITE

Datalogic provides several services as well as technical support through its website. Log on to ([www.datalogic.com](http://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.

## WARRANTY TERMS AND CONDITIONS

Datalogic warrants that the Products shall be free from defects in materials and workmanship under normal and proper use during the Warranty Period. Products are sold on the basis of specifications applicable at the time of manufacture and Datalogic has no obligation to modify or update Products once sold. The Warranty Period shall be **one year** from the date of shipment by Datalogic, unless otherwise agreed in an applicable writing by Datalogic.

Datalogic will not be liable under the warranty if the Product has been exposed or subjected to any: (1) maintenance, repair, installation, handling, packaging, transportation, storage, operation or use that is improper or otherwise not in compliance with Datalogic's instruction; (2) Product alteration, modification or repair by anyone other than Datalogic or those specifically authorized by Datalogic; (3) accident, contamination, foreign object damage, abuse, neglect or negligence after shipment to Buyer; (4) damage caused by failure of a Datalogic-supplied product not under warranty or by any hardware or software not supplied by Datalogic; (5) any device on which the warranty void seal has been altered, tampered with, or is missing; (6) any defect or damage caused by natural or man-made disaster such as but not limited to fire, water damage, floods, other natural disasters, vandalism or abusive events that would cause internal and external component damage or destruction of the whole unit, consumable items; (7) use of counterfeit or replacement parts that are neither manufactured nor approved by Datalogic for use in Datalogic-manufactured Products; (8) any damage or malfunctioning caused by non-restoring action as for example firmware or software upgrades, software or hardware reconfigurations etc.; (9) loss of data; (10) any consumable or equivalent (e.g. cables, power supply, batteries, etc.); or (11) any device on which the serial number is missing or not recognizable.

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# GLOSSARY

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## 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.

## 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.

## 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.

## 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.

## 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).

## 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-and-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

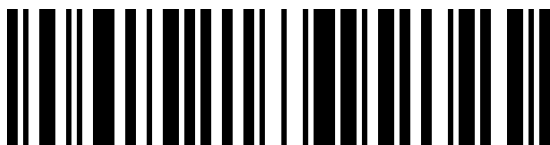
A Wireless Personal Area Network is a personal area network - a network for interconnecting devices centered around an individual person's workspace - in which the connections are wireless. Typically, a wireless personal area network uses some technology that permits communication within about 10 meters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

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 **DATALOGIC**  
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