

MEMOR™ K

USER'S MANUAL



Mobile Computer with 1D/2D Imager

Datalogic S.r.l.

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

© 2020 Datalogic S.p.A. and /or its affiliates

All rights reserved. Without limiting the rights under copyright, no part of this documentation may be reproduced, stored in or introduced into a retrieval system, or transmitted in any form or by any means, or for any purpose, without the express written permission of Datalogic S.p.A. and/or its affiliates.

Owners of Datalogic products are hereby granted a non-exclusive, revocable license to reproduce and transmit this documentation for the purchaser's own internal business purposes. Purchaser shall not remove or alter any proprietary notices, including copyright notices, contained in this documentation and shall ensure that all notices appear on any reproductions of the documentation.

Electronic versions of this document may be downloaded from the Datalogic website (www.datalogic.com). If you visit our website and would like to make comments or suggestions about this or other Datalogic publications, please let us know via the "Contact" page.

Disclaimer

Datalogic has taken reasonable measures to provide information in this manual that is complete and accurate, however, Datalogic shall not be liable for technical or editorial errors or omissions contained herein, nor for incidental or consequential damages resulting from the use of this material. Datalogic reserves the right to change any specification at any time without prior notice.

Trademarks

Datalogic and the Datalogic logo are registered trademarks of Datalogic S.p.A. in many countries, including the U.S.A. and the E.U.

Memor and SoftSpot are trademarks of Datalogic S.p.A. and/or its affiliates, registered in many countries, including the U.S. and the E.U. • The Bluetooth word mark and logos are owned by Bluetooth SIG, Inc. and any use of such marks by Datalogic Group companies is under license. • All other trademarks and brands are property of their respective owners • Product specifications are subject to change without notice.

Patents

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

TABLE OF CONTENTS

INTRODUCTION	1
Conventions	1
Product Overview	1
Available Models	1
Americas Models	1
EMEA and Row Models	1
Out of the Box	2
General View	3
Top View	3
Front View	3
Side View	4
Back View	5
Bottom View	5
Accessories	6
BATTERY	7
Install the Battery	7
Charge the Battery	8
Charge with USB	9
Charge with the Single Slot Dock	9
Battery Information	10
Battery Safety Guidelines	11
SD CARD	13
Install the SD Card	13
GETTING STARTED	14
Turn on the Device	14
Home Screen	14
Home Screen Items	14
Status Bar Icons	14
Suspend Mode	15
Reboot Options Menu	15
Power Off	15
Restart	15
Screenshot	15
Applications	16
Touch Gestures	17
Reset the Device	18
Configuration Reset	18
DRM Reset	18
Reset Wi-Fi, Mobile & Bluetooth	19
Reset App Preferences	19
Factory Reset	20
Enterprise Reset	20
Hard Reset	21
Setup Wizard	21
LED Indicators	22
SETTINGS	23
Overview	23

Datalogic Settings	24
Scanner Settings	24
Notification	25
Good Read	26
Formatting	27
Scanner Options	29
Wedge	32
Symbology Settings	34
Scan Engine Details	36
Global Settings	36
Power Management	37
Suspend Timeout	37
Wake-Up Configuration	38
Key Settings	39
Lock Keyboard Input	39
Key Remapping	39
View All Remapped Keys	42
Triggers	42
System Update	43
Local Upgrade	43
Network & Internet	45
Connect to Wi-Fi Network	45
Add a Wi-Fi Network	46
Connected Devices	48
Bluetooth Settings	48
Enable Bluetooth®	48
Connect to Other Bluetooth® Devices	48
Configure, Rename or Unpair Bluetooth® Devices	49
NFC	51
Recovery Mode	52
DATALOGIC APPLICATIONS	53
SoftSpot™	53
SoftSpot	54
Enable SoftSpot on boot	54
Swipe up to hide	54
Vibrator	54
Auto-transparency	54
Transparency Range	54
Speed of transparency	54
Actions	54
Images	55
Enable Continuous Scan on Double Tap	56
Scan2Deploy	56
SureLock	57
SureFox	57
TOOLS	58
USB ADB Driver	58
SDK Add-on	58
Install ADB Driver	58
Create a New Application based on Datalogic SDK Add-on with Android Studio	59
Datalogic SDK	59
Datalogic OEMConfig	59
Wi-Fi QR Code Generator	59
DATA CAPTURE	60
Imager Data Capture	60
CONNECTIONS	61
USB Connection	61
USB Direct Connection	61
Wi-Fi Connection	62

Bluetooth® Serial Connection 63

Near Field Communication (NFC) 63

 Read NFC Tags 63

Wireless and Radio Frequencies Warnings 64

TECHNICAL FEATURES..... 65

 Technical Data 65

TEST CODES..... 68

MAINTENANCE..... 72

 Cleaning 72

 Ergonomic Recommendations 72

SAFETY AND REGULATORY INFORMATION 73

 General Safety Rules 73

TECHNICAL SUPPORT..... 74

 Support Through the Website 74

 Reseller Technical Support 74

 Reference Documentation 74

 Warranty 74

GLOSSARY 76

NOTES

INTRODUCTION

CONVENTIONS

This manual uses the following conventions:

"PDA", "mobile computer", "device" and "Memor K" refer to the Memor K.

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

PRODUCT OVERVIEW

The mobile computer Datalogic Memor K is the perfect pocketable business companion for any data capture application, from assisted sales to the shop floor, or back-end receiving to the warehouse. It might be small in size, but it's big in technology!

The Memor K device comes with a powerful 2GHz octa-core processor and 3 GB memory featuring Android 9. The back-lit keyboard ensures very fast data input, while the 4" display provides you plenty of space for your applications.

The powerful Wi-Fi (including AC standard) allows

users to have access to fast download and upload connections, while the USB-C ensures fast data and charging speeds.

Its light weight and thin design, along with 2 comfortably positioned side keys and Soft-Spot technology for a variety of user-defined functions, make scanning processes both easy and fast. But it's durable too, with IP54 certification and 1.2m/4 feet drop. The 3,800 mAh battery ensures long operational time.

The soft-touch, backlit keyboard allows user to fast type in information such as quantity, description or location of any item scanned. The very fast 2D imager allows to read easily any 1D or 2D from any surface.

AVAILABLE MODELS

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

Americas Models

- 946000002 Memor K 802.11 a/b/g/n/ac, 4" display, BT V4.2, 3GB RAM/32GB Flash, 8MP Camera, 2D Imager w Green Spot, Android 9, FCC.

EMEA and Row Models

- Memor K 802.11 a/b/g/n/ac, 4" display, BT V4.2, 3GB RAM/32GB Flash, 8MP Camera, 2D Imager w Green Spot, Android 9, CE.

For further details about the Memor K models refer to the web site:

<http://www.datalogic.com>.

For further information regarding Android refer to the website:

www.android.com.

OUT OF THE BOX

The Memor K package contains:

- Memor K Device
- USB Type-C Cable
- Rechargeable one-piece battery pack
- Quick Start Guide
- Safety & Regulatory Addendum
- Warranty Addendum

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



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

GENERAL VIEW

Top View



Data Capture Window

Front View



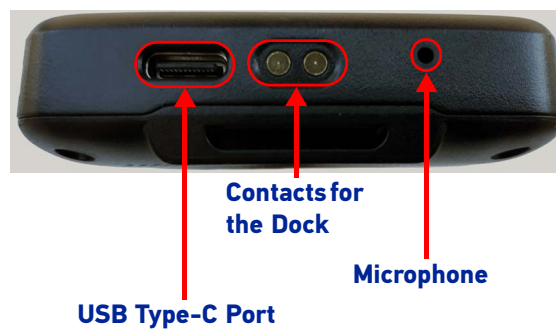
Side View



Back View



Bottom View



ACCESSORIES

Docks

94A150111 MEMOR K SINGLE SLOT DOCK

Batteries/ Battery Chargers

94ACC0311 MEMOR K SPARE BATTERY 3800 MAH

94ACC0316 POWER SUPPLY USB TYPE-C

Holsters/ Cases

94ACC0312 MEMOR K BELT HOLSTER

94ACC0313 MEMOR K RUBBER BOOT

General Accessories

94ACC0319 MEMOR K HANDSTRAP, SPARE PART (5 PCS)

94ACC0320 MEMOR K BATTERY COVER, SPARE PART X5

BATTERY

INSTALL THE BATTERY

To install the battery pack, follow the steps below:

1. Slide the battery cover switch to the unlock position (right side); lift and remove the battery cover.



2. Insert the battery pack into the slot, top first, and press it into place.



3. Insert the battery cover (bottom side first) and press it into place; slide the battery cover switch to the lock position (left side).



CHARGE THE BATTERY

The battery pack is not initially fully charged. After installing the battery, charge it with the power supply or with the single slot dock for minimum 3.5 hours.

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



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



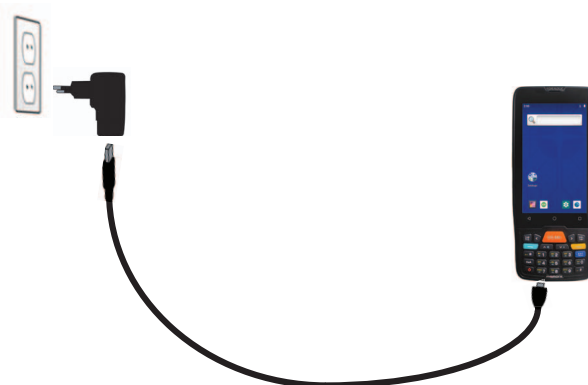
NOTE: The Memor K may get warm during charging. This is normal and does not mean a malfunction.



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

Charge with USB

Use the provided USB Type-C cable in conjunction with the power supply adapter (p/n 94ACC0316) to charge the device from a power outlet.



CAUTION: Use only the Datalogic power supply 94ACC0316 to power the Memor K.

Charge with the Single Slot Dock

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



CAUTION: Use only a Datalogic approved power supply to power the single slot dock.



NOTE: For information on the single slot dock refer to the Quick Start Guide included in the dock's box.

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 Memor K terminal.

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 Memor K should be charged at an ambient temperature between 0 - 35°C (32 to 122°F) to achieve the maximum charging rate.

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

The Memor K 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.

We recommend charging the battery pack every two to three months 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 terminal to power devices other than this device.

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, or appears abnormal in any other way.

Do not short-circuit the battery pack contacts connecting the positive terminal and negative terminal. 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 terminals 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.

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.



WARNING: 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 2006/66/EC, 2011/65, 2002/96/EC and subsequent modifications, with US and China regulatory laws and regulations about the environment.

SD CARD

INSTALL THE SD CARD

We recommend the use of Single Level Cell (SLC) industrial grade microSD or microSDHC memory cards for maximum performance and durability. Contact the sales support team to select the memory card for your device.



NOTE: If you use your microSD/SDHC card as portable storage, format it to Fat32 before installation.

To install the memory card:

1. Remove the battery cover (see "[Install the Battery](#)" on page 7, step 1).
2. Remove the battery.
3. Insert the memory card into the slot with the written part upward.



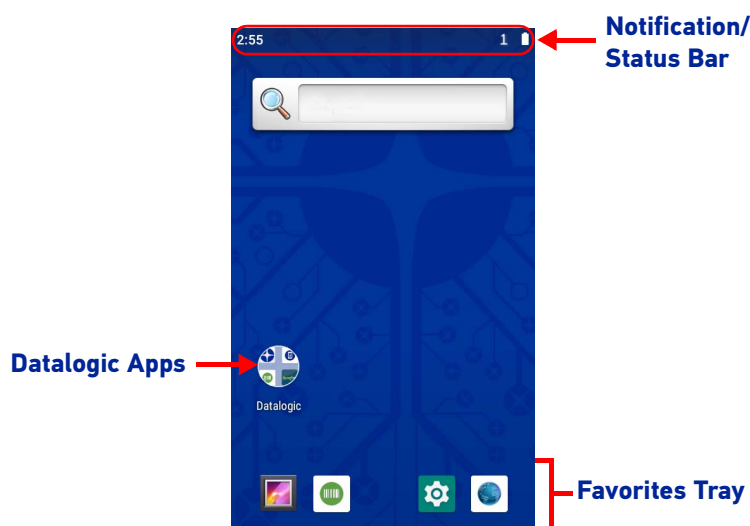
4. Replace the battery and the battery cover (see "[Install the Battery](#)" on page 7, steps 3 and 4).

GETTING STARTED

TURN ON THE DEVICE

To turn on the Memor K, press and hold the Power Button for at least 3 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 Apps	Shortcut to Datalogic's native applications and settings: Scan2Deploy, Scan Demo, SoftSpot, SureFox, SureLock, Datalogic Settings.

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.

SUSPEND MODE

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

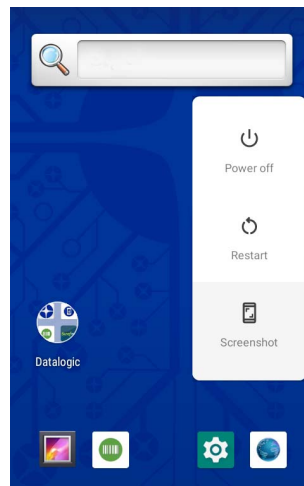
Press and release the power button to toggle the terminal in or out of suspend mode:

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 37.

REBOOT OPTIONS MENU

Press and hold the **Power** button until the **Reboot Options 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.

To force restart, press and hold the Power Button for at least 10 seconds to force restart.

Restart

Tap **Restart** to restart the terminal.

Screenshot

Tap **Screenshot** to take a screenshot.

APPLICATIONS

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

Icon	Description
	Android Keyboard Settings - Use it to change your virtual keyboard settings.
	Browser - Use it to access the internet or intranet.
	Calculator - Provides the basic and scientific arithmetic functions.
	Calendar - Lets you manage events and appointments.
	Camera - Use it to take photos or record videos.
	Clock - Lets you schedule alarms for appointments or as a wake-up.
	Email - Use it to send and receive email.
	File Manager - It lets you manage files and folders.
	Gallery - Use it to view photos stored on the internal storage memory and on the SD card.
	Music - Lets you play music stored on the internal storage memory and on the SD card.
	Scan Demo – Enables data capture (see " Data Capture " on page 60).
	Scan2Deploy - Configuration tool (see " Scan2Deploy " on page 56).
	Search - Use the Google search engine to search the Internet and the Memor K.
	Settings - Use it to configure the Memor K (see " Settings " on page 23).
	SoftSpot - A configurable application meant to provide easy access to frequently used functionalities (see " SoftSpot™ " on page 53).

Icon	Description
	Sound Recorder - Use it to record audio.
	SureFox - Use to controls web access for the users (see "SureFox" on page 57).
	SureLock - Use to secure and lock your device (see "SureLock" on page 57).

TOUCH GESTURES

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

RESET THE DEVICE

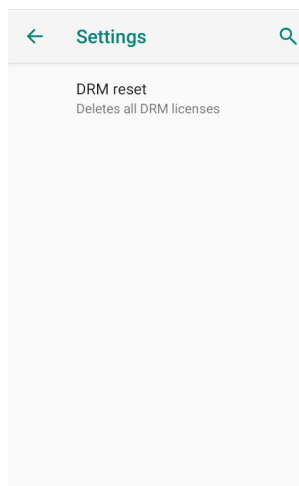
Configuration Reset

Configuration reset sets the configuration of the device (all its settings) to a known status: the factory status or an enterprise-user-defined status. You can also reset DRM licenses, networks or apps preferences.

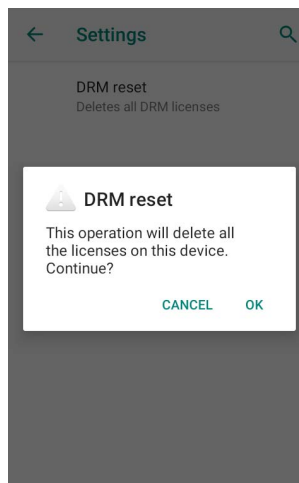
DRM Reset

Deletes all DRM licenses.

1. Tap **Settings** > **System** > **Advanced** > **Reset options** > **DRM reset**.



2. Tap **DRM reset**. The following dialog box will appear:

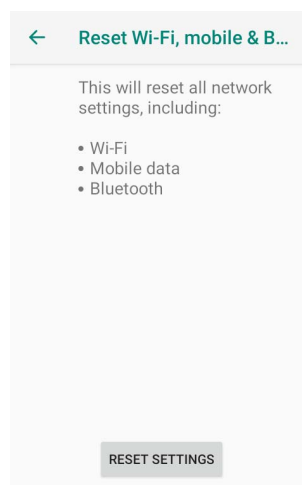


3. Tap **OK**.

Reset Wi-Fi, Mobile & Bluetooth

Resets all network settings.

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



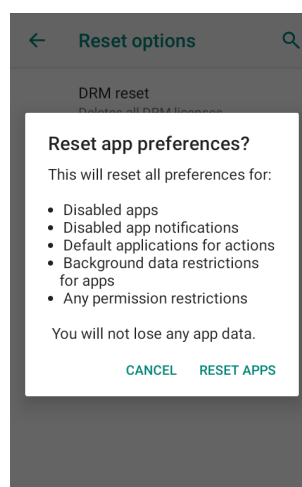
2. Tap **RESET SETTINGS**.

Reset App Preferences

Resets all preferences for:

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

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

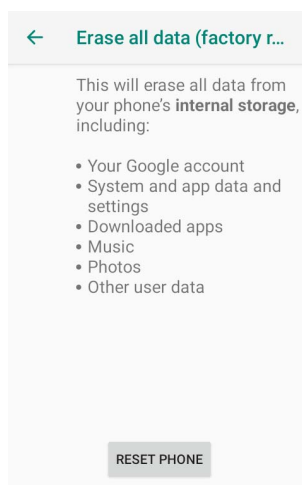


2. Tap **RESET APPS**.

Factory Reset

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

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



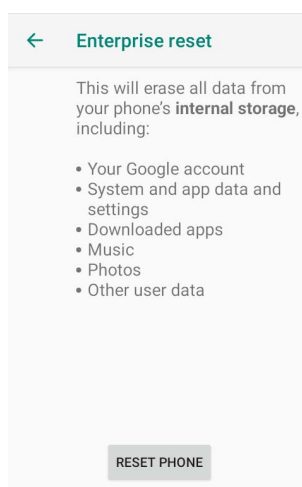
2. Tap **RESET PHONE**.

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 > Advanced > Reset options > Enterprise reset**.



2. Tap **RESET PHONE**.

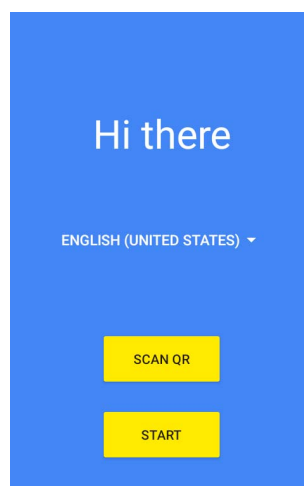
Hard Reset

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, press and hold the power key for at least 10 seconds.

SETUP WIZARD

After the first boot or a factory reset, the start dialog of the Setup Wizard is displayed, with initial settings for you to configure.



LED INDICATORS

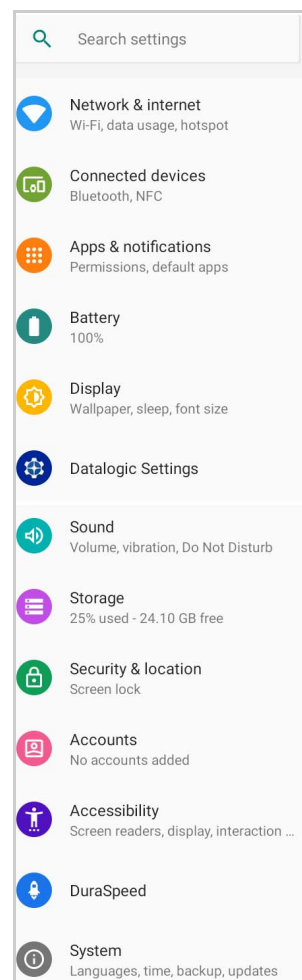
The LEDs illuminate to indicate various functions or errors on the reader. The following tables list these indications. The good read LED indicator is programmable, and may or may not be enabled ("[Scanner Settings](#)" on page 24 for more details).

LED	Status	Description
Charging LED	Solid Red	The device is charging.
	Solid Green	Charging is complete.
	Red Blink	Charge fault.
Good Read Indicator	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 changes to solid green when a good decode is completed.

SETTINGS

OVERVIEW

The **Settings** app allows you to check or set system parameters to customize your device. To open the **Settings** screen, tap the **Settings** icons on the **All Apps** screen or pull down the notification panel and then tap the **Settings** icon on the bottom right corner:



DATALOGIC SETTINGS

Scanner Settings

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 Settings**. Select the desired configuration from the following options:

Scanner Settings
Notification
Good read
Formatting
Scanner options
Wedge
Symbology settings
Scan engine details
Global settings
Enable all symbologies Enables all supported symbologies
Disable all symbologies Disables all supported symbologies
Reset configuration Reset the decoding subsystem configuration
Commit Saves the configuration

Notification

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

Good Read Duration

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

Good Read Interval

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

Good Read Number

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

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

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.



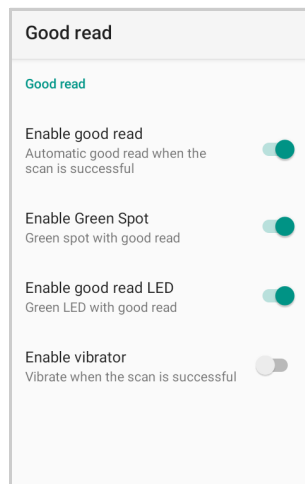
NOTE: The Notification settings do not apply to an audio file.

Good Read Audio Volume

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

Good Read

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



Tap **Enable good read** to enable/disable notifications (main enabler), then select the notification you want to use.

Formatting

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

The screenshot shows a dialog box titled "Formatting". It contains several settings: "Label prefix" set to "None", "Label suffix" set to "[LF]", "Group Separator replacement" set to "[GS]", a toggle for "Remove non-printable charac.." which is currently off, and "Send code ID" set to "None".

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:

The screenshot shows a dialog box titled "Label prefix". It has a text input field with "Add special: None" and a dropdown arrow. At the bottom, there are "CANCEL" and "OK" buttons.

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:

The screenshot shows a dialog box titled "Label suffix". It has a text input field with "Add special: None" and a dropdown arrow. Below the input field, the text "[LF]" is visible. At the bottom, there are "CANCEL" and "OK" buttons.

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:

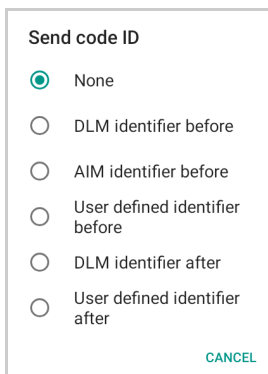
The screenshot shows a dialog box titled "Group Separator replacement". It has a text input field with "Add special: None" and a dropdown arrow. Below the input field, the text "[GS]" is visible. At the bottom, there are "CANCEL" and "OK" buttons.

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:

A dialog box titled "Send code ID" with a list of radio button options. The first option, "None", is selected. The other options are "DLM identifier before", "AIM identifier before", "User defined identifier before", "DLM identifier after", and "User defined identifier after". A "CANCEL" button is located at the bottom right of the dialog box.

Send code ID

- ☒ None
- ☐ DLM identifier before
- ☐ AIM identifier before
- ☐ User defined identifier before
- ☐ DLM identifier after
- ☐ User defined identifier after

CANCEL

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.

Scanner Options

Tap **Scanner Options** to customize the Memor K scanning behavior.

Scanner options

Scanner options

Enable picklist ☐

Enable illumination ☒

Enable aim ☒

Display mode ☐

Image Capture Profile
Auto by enabled symbologies

Image Custom Capture Profile
Frame brightness 1

Target mode
No delay

Target timeout
1 seconds

Release scan timeout
2 seconds

Decode timeout
5.0 s

Multi Scan

Enable multi scan ☐
Capture multiple labels sequentially

Number of required labels
2

Enable single notification ☐
Notify on each read label

Enable Picklist

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

Enable Illumination

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

Enable Aim

Enables the laser aim.

Display Mode

Optimizes the reading of a barcode from a screen.

Image Capture Profile

Sets the scanner profile for image capture:

- automatic based on enabled symbologies
- capture frames taking into account motion
- capture frames taking into account reflections.

Image Capture Profile

- ☒ Auto by enabled symbologies
- ☐ Motion tolerance
- ☐ Reflection tolerance
- ☐ Custom

CANCEL

Target Mode

If enabled, when the scan button is pressed, the scanner will project an aiming pattern to assist in centering over the barcode before scanning. Tap **Target mode** to select the desired targeting behavior:

Target mode

- ☒ No delay
- ☐ Spot Timeout
- ☐ Release Scan

CANCEL

No Delay

Target mode is disabled.

Spot Timeout

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

Target timeout

- ☐ 0.25 seconds
- ☐ 0.5 seconds
- ☒ 1 seconds
- ☐ 1.5 seconds
- ☐ 2 seconds

CANCEL

Release Scan

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

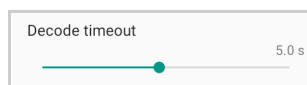
Release scan timeout

- ☐ 1 seconds
- ☒ 2 seconds
- ☐ 3 seconds
- ☐ 4 seconds
- ☐ 5 seconds
- ☐ 6 seconds
- ☐ 7 seconds
- ☐ 8 seconds

CANCEL

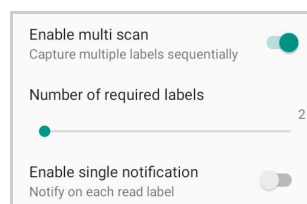
Decode Timeout

Drag the **Decode timeout** 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):



Enable Multi Scan

If selected, it allows you to capture multiple labels sequentially.



Number of Required Labels

Drag the slider to indicate how many barcodes you want to collect.

Enable Single Notification

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

Wedge

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

Wedge

Keyboard wedge

Enable keyboard wedge

The captured data will be sent to the foreground application in the form of key events

☒

Keyboard wedge only on focus

Send captured data in the form of key events only to the current text area with active keyboard input

☐

Keyboard wedge input mode

Text injection

Intent wedge

Enable intent wedge

The captured data will be sent to an application in the form of an implicit Intent

☐

Intent delivery mode

Broadcast intent

Intent action

com.datalogic.decodedwedge.decode_action

Intent category

com.datalogic.decodedwedge.decode_category

Intent extra barcode string

com.datalogic.decode.intentwedge.barcode_string

Intent extra barcode type

com.datalogic.decode.intentwedge.barcode_type

Intent extra barcode data

com.datalogic.decode.intentwedge.barcode_data

Web wedge

Enable web wedge

The captured data will be sent to the internet browsing application, in the form of a valid URL

☐

Enable Keyboard Wedge

Enables/disables the keyboard wedge mode.

Keyboard Wedge Only on Focus

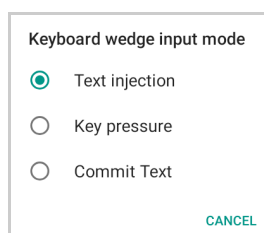
If selected, the scanner is enabled whenever a text area is in focus and can receive text.

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.

Enable Intent Wedge

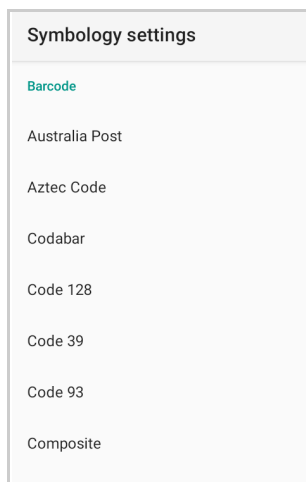
Enables the broadcast of specific intents to the listening applications. The broadcasted intent can have its custom Action, Category and extra content fields. The scanner is enabled whenever the intent option is flagged.

Enable Web Wedge

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

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

Advanced barcode options

Linear quiet zones

Inverted decoding

Linear Quiet Zones

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

Advanced barcode options

Linear quiet zones

Enable UPC/EAN reduced
Decode UPC/EAN labels with short margins

Enable Code 39 reduced
Decode Code 39 labels with short margins

Enable Code 128 reduced
Decode Code 128 labels with short margins

Enable MSI reduced
Decode MSI labels with short margins

Inverted Decoding

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

1D inverted

☒ Regular

☐ Reverse

☐ Both

CANCEL

2D inverted

☐ Regular

☐ Reverse

☒ Both

CANCEL

Scan Engine Details

Provides information on the scan engine.

Scan engine model E3200
Library details
Decoding library version VL5.14.06U.49905658.12
Module Firmware version 0.0.1.0
Module Hardware version 168
Module Name E3200
Module Name ID 13
Software Application version 1.3.2.2

Global Settings

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

Global settings
Enable all symbologies Enables all supported symbologies
Disable all symbologies Disables all supported symbologies
Reset configuration Reset the decoding subsystem configuration
Commit Saves the configuration

Enable All Symbologies

Enables all barcode symbologies.

Disable All Symbologies

Disables all barcode symbologies.

Reset Configuration

Resets back to default scanner configuration settings.

Commit

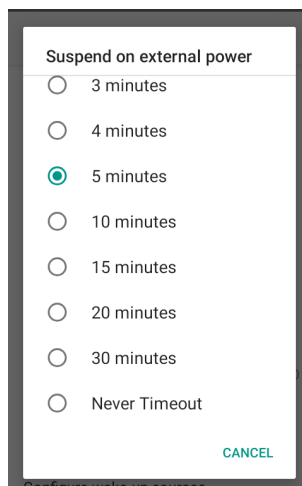
Saves the configuration settings to a persistent storage. Any change you make is temporary and will be lost when the system restarts, unless you tap **Commit**.

Power Management

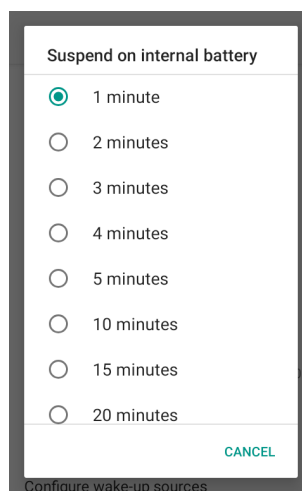
Suspend Timeout

You have two options to set the suspend timeout (see "[Suspend Mode](#)" on page 15 for more information on Suspend Mode):

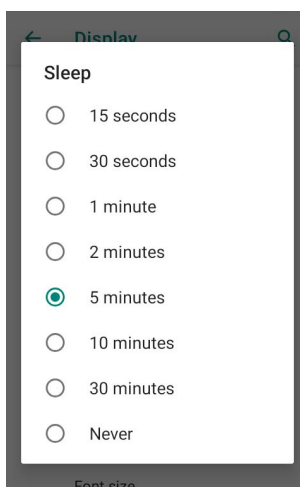
1. Tap **Settings > Datalogic Settings > Power Management**:
 - **Suspend on external power** sets the number of seconds without user input activity before the system is suspended while running on external power.



- **Suspend on 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 > Advanced > Sleep** to set the number of seconds without user input activity before the system is suspended while running on either battery power or external power.

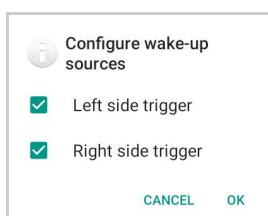


If you use the **Advanced settings** page to set the auto-suspend timeouts, the **Display** page's **Sleep** control will display the **Suspend on internal battery** if no external power is connected; if the device is connected to an external power source (USB or dock), it will display the **Suspend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

If you set the **Display** page's **Sleep** control to a new value, it will override both timeouts for external power and internal battery.

Wake-Up Configuration

The default wake-up sources are the left side trigger and the right side trigger and the pistol trigger. Tap **Settings > Datalogic Settings > Power Management > Configure wake-up sources** to enable/disable wake-up sources.



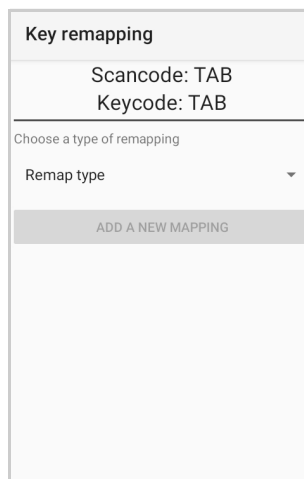
Key Settings

Lock Keyboard Input

Locks user input from the keyboard. It is selected by default.

Key Remapping

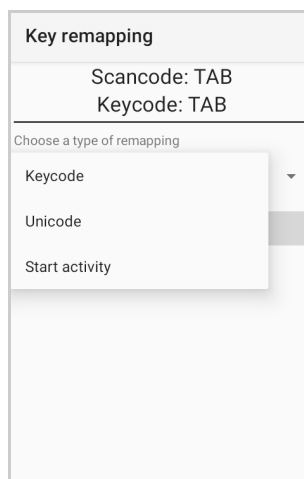
Tap **Key remapping** to remap an input key, then press the key you want to remap. The following window displays on screen:



The image shows a mobile application window titled "Key remapping". At the top, it displays "Scancode: TAB" and "Keycode: TAB". Below this, there is a section labeled "Choose a type of remapping" which contains a dropdown menu currently showing "Remap type". At the bottom of this section is a button labeled "ADD A NEW MAPPING".

- **Scancode** represents the physical location of a keyboard key.
- **Keycode** represents the value that is mapped to a specific key.

Tap **Remap type** to select the remapping type:



The image shows the same "Key remapping" window as before, but with the dropdown menu under "Choose a type of remapping" open. The menu lists three options: "Keycode", "Unicode", and "Start activity". The "Keycode" option is currently selected and highlighted.

Keycode

Select **Keycode** to map the selected key to a new function:

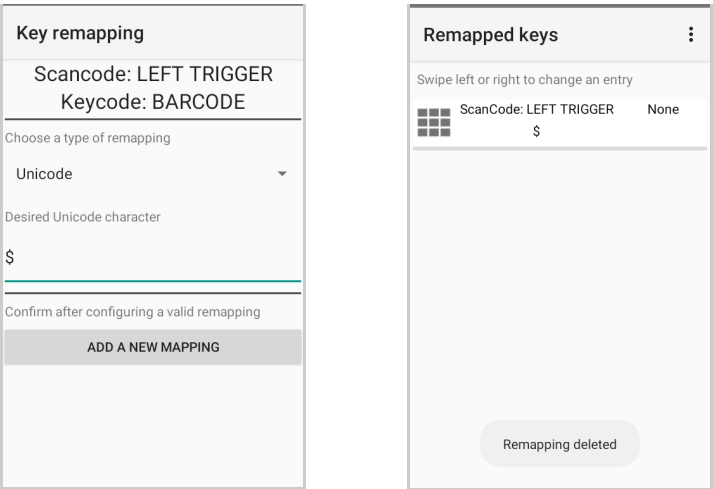
- Tap the second menu (default = **DISABLE KEY**) to select the new function you want to assign to the selected key.
- Tap the last menu (default = **None**) to add a modifier key (such as **Ctrl**, **Shift** or **Alt**).

Tap **ADD A NEW MAPPING**. A window displays showing the new keymap.

Unicode

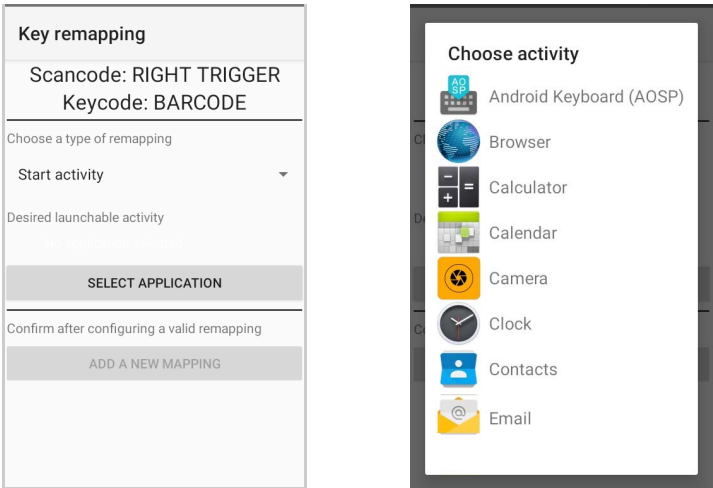
Select **Unicode** to remap a key to display Unicode characters (such as symbol "\$"):

Press the Back Button on the navigation bar and then tap **ADD A NEW MAPPING**. A window displays showing the new keymap:

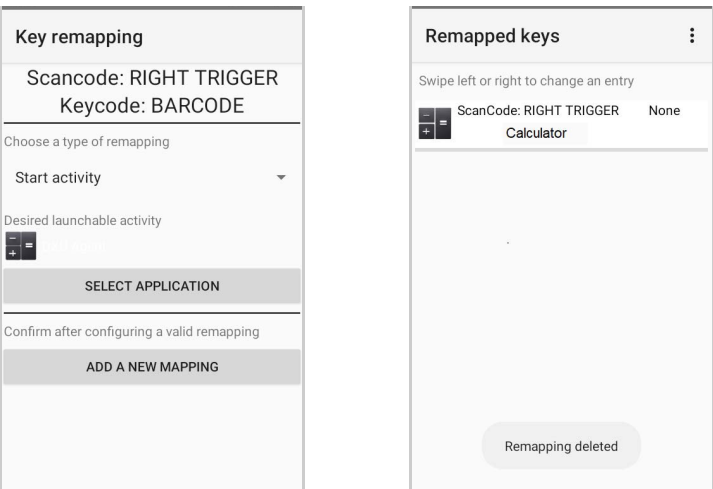


Start Activity

Select **Start activity** to remap a key to launch an application loaded on your device. Tap **SELECT APPLICATION**:

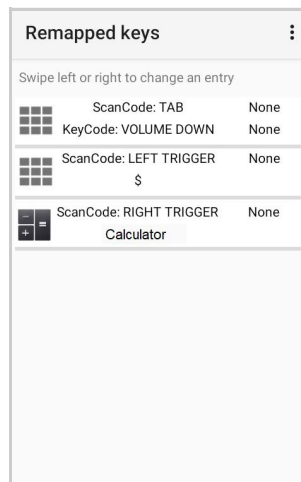


Select the desired application and then tap **ADD A NEW MAPPING**. A window displays showing the new keymap:



View All Remapped Keys

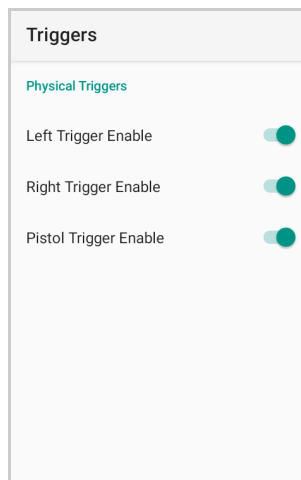
Tap View all remapped keys to display all remapped keys:



Swipe left to edit an entry. Swipe right to remove an entry and reset the key mapping back to default.

Triggers

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



System Update

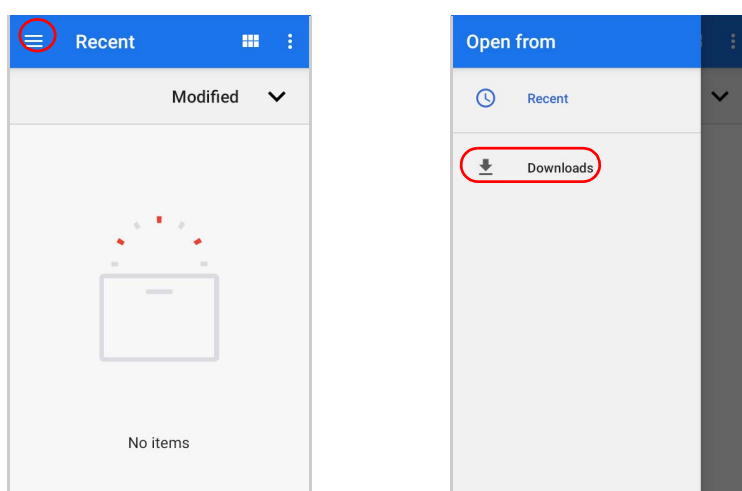
The A/B system update ensures a workable booting system remains on the disk during an over-the-air (OTA) update. OTA updates can occur while the system is running, without interrupting the user. Users can continue to use their devices during an OTA, the only downtime during an update is when the device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

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

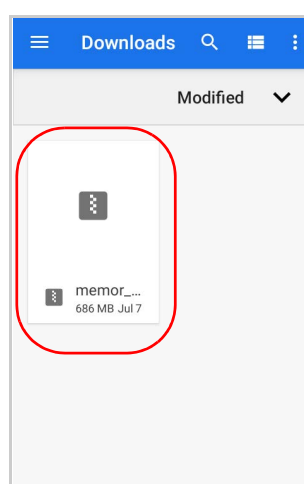
1. Connect the device and the PC via USB cable (see “USB Connection” on page 61);
2. Copy the OTA package to the device **Download** folder;

Local Upgrade

From the **Settings** menu, tap **Datalogic Settings** > **System Update** > **Local upgrade**. Tap the menu icon on the top left corner of the screen and then tap **Downloads**.

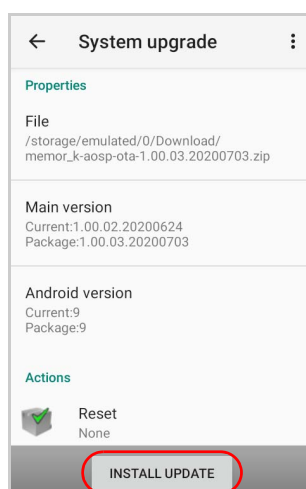


Select the update package you want to install:



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

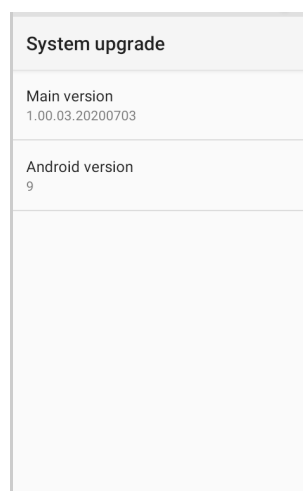
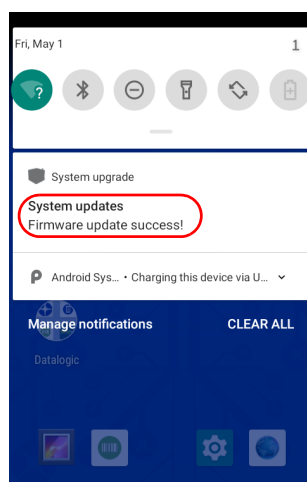
The following window displays on screen, showing information about the device and the update package components:



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 18).

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



NOTE: During the update, ensure that:

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

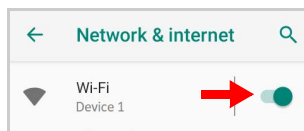
or

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

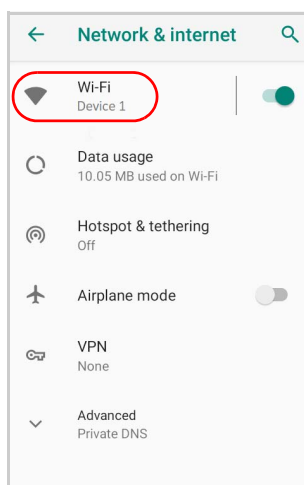
NETWORK & INTERNET

Connect to Wi-Fi Network

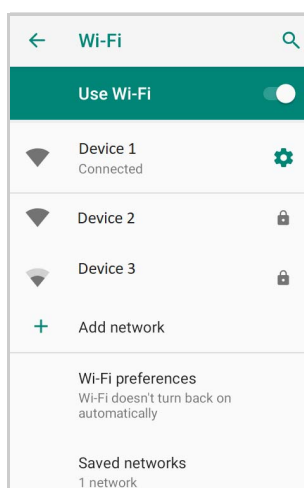
1. To turn on the Wi-Fi, tap **Settings > Network & Internet** and switch right to the **On** position.



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



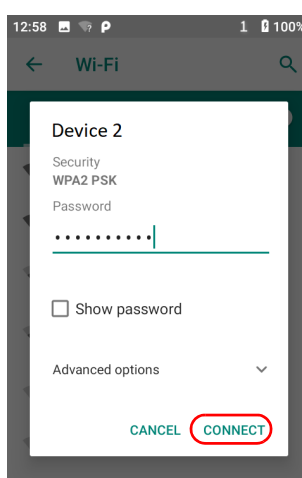
2. Tap **Wi-Fi**. The Memor K scans for available Wi-Fi networks within range and lists them. Secured networks are indicated with a lock icon.



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

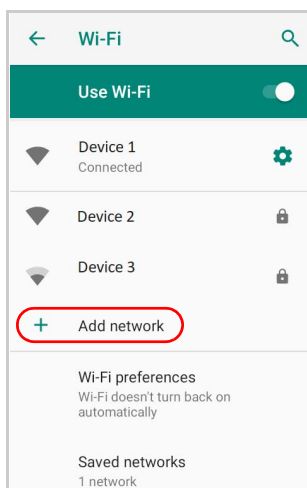


If the network is secured, a dialog box appears requesting information relevant to the network security protocol (e.g., password, key, or certificate). Enter the required information, then tap **Connect**:

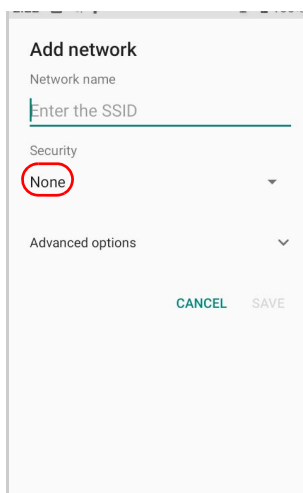


Add a Wi-Fi Network

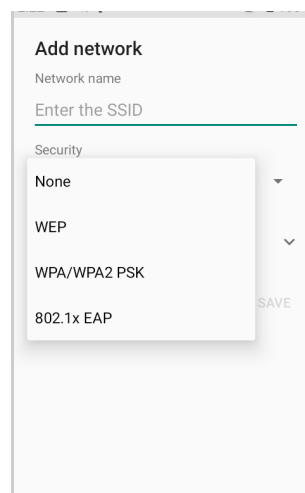
1. Tap **Settings** > **Network & Internet** and verify that the Wi-Fi is turned on.
2. Tap **Wi-Fi**.
3. Tap **Add network** at the end of the available network list:



4. 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 (e.g., WEP, WPA/WPA2 PSK or 802.1xEAP). Enter any additional security information required by the type of security protocol selected.



The screenshot shows the 'Add network' screen. At the top, it says 'Add network'. Below that is a label 'Network name' followed by a text input field containing 'Enter the SSID'. Underneath is a 'Security' dropdown menu with 'None' selected and circled in red. Below the dropdown is an 'Advanced options' dropdown menu. At the bottom right are two buttons: 'CANCEL' and 'SAVE'.



The screenshot shows the 'Add network' screen with the 'Security' dropdown menu open. The menu lists four options: 'None', 'WEP', 'WPA/WPA2 PSK', and '802.1x EAP'. The 'SAVE' button is visible at the bottom right of the screen.

5. Tap **Save**.

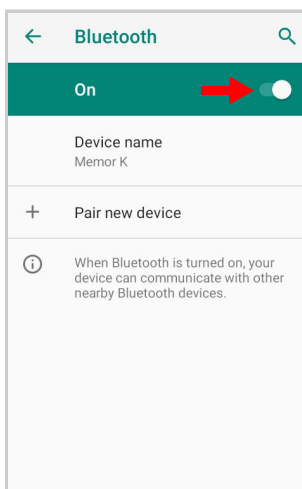
CONNECTED DEVICES

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 close range.

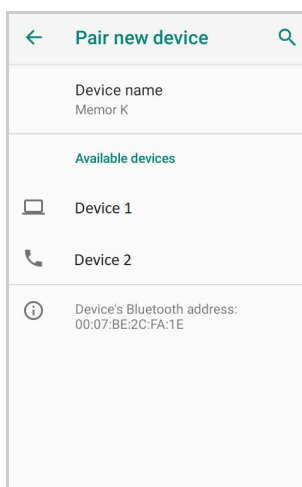
Enable Bluetooth®

1. To turn on the Bluetooth®, tap **Settings > Connected Devices > Connection preferences > Bluetooth** and switch right to the **Bluetooth On** position.

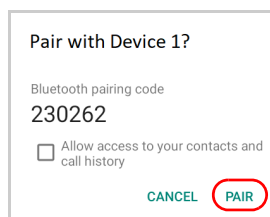


Connect to Other Bluetooth® Devices

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



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

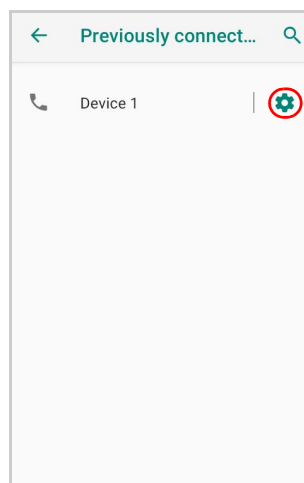


3. Make sure both devices show the same passkey and tap **Pair**.
4. The selected Bluetooth® device is added to the **Previously connected devices** list and a paired connection is established.

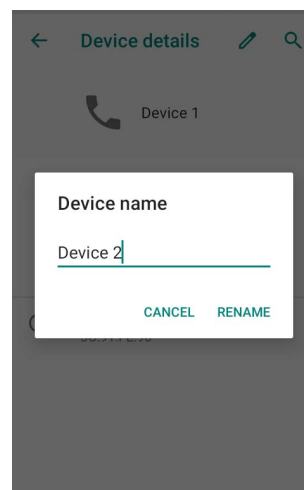
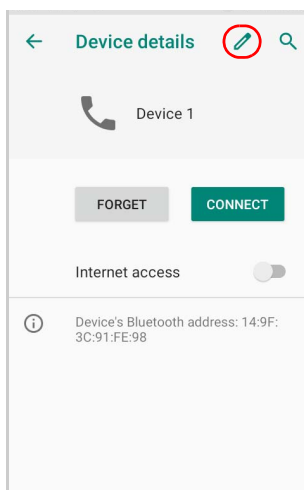
Configure, Rename or Unpair Bluetooth® Devices

Tap **Settings > Connected devices > Previously connected devices**.

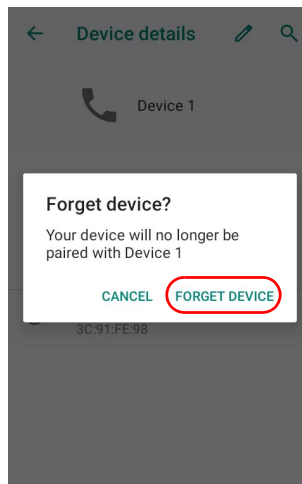
Select a device and tap the settings icon next to its name. The **Device Details** window displays on the screen. Type the **Edit** icon to rename the paired device.



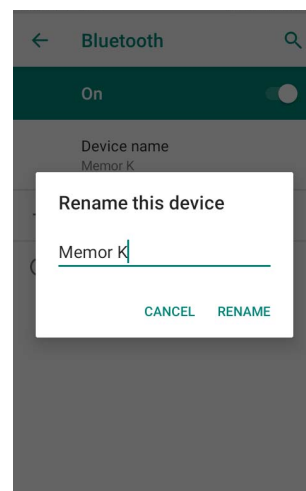
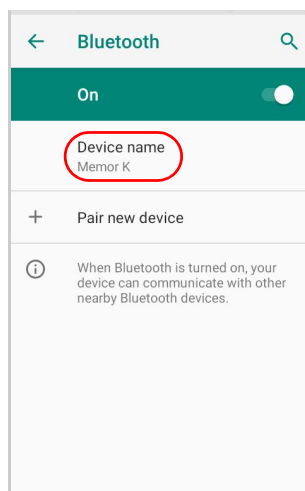
Type the **Edit** icon to rename the paired device.



Tap **FORGET** to unpair:



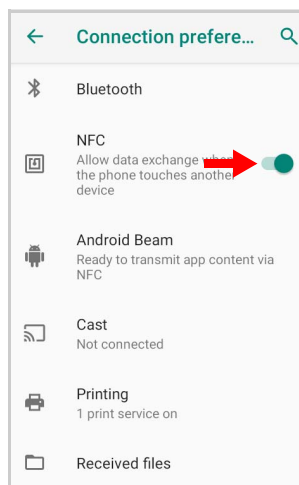
To rename your device, tap **Device name**. Type in the new name.



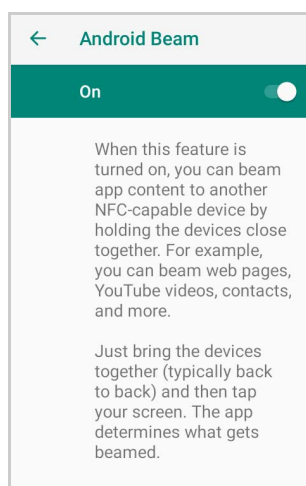
Tap **Rename** to confirm.

NFC

To enable enable short-range wireless data exchange, tap **Settings > Connected Devices > Connection preferences** and switch right to the NFC ON position.



Android Beam is automatically enabled:

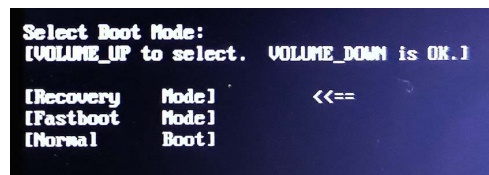


RECOVERY MODE

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 boot menu:

1. Turn off the Memor K (see "[Power Off](#)" on page 15).
2. Press the power button and the up arrow key simultaneously.
3. The device turns on and the following screen appears:



4. Use the up arrow (volume up) to navigate the menu and the down arrow (volume down) to select. Select **Recovery Mode**. The **Recovery Mode** screen appears.



5. Use the up/down arrows keys to navigate the menu. You can apply/force updates and perform a reset. Press the power key to select.
6. Select **Reboot system now**. The device reboot is complete.



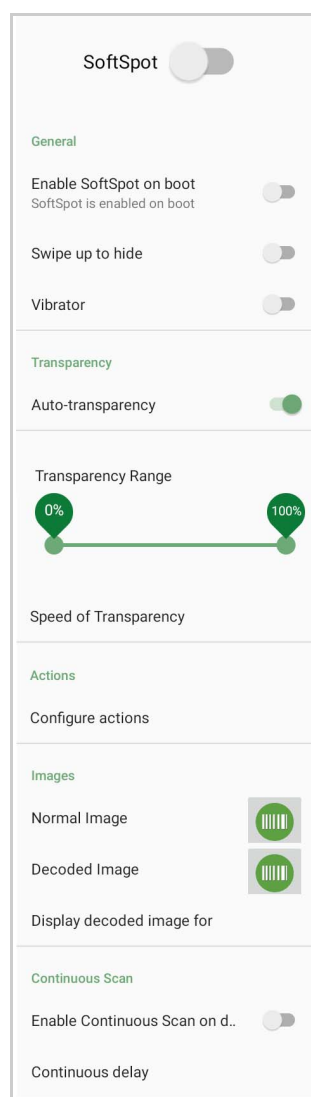
NOTE: In Recovery mode, you can only apply updates from external storage (see "[Local Upgrade](#)" on page 43).

DATALOGIC APPLICATIONS

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 launch SoftSpot:



Tap the SoftSpot to scan barcodes.

SoftSpot

Enables the SoftSpot.

Enable SoftSpot on boot

Enables SoftSpot on boot.

Swipe up to hide

If enabled, it allows to hide the SoftSpot from the screen by swiping it up in the Notification/Status bar.

Vibrator

Enables the vibrator.

Auto-transparency

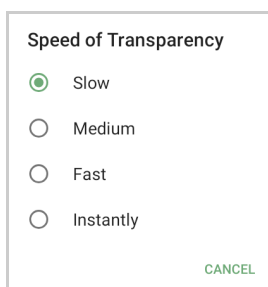
If enabled, the SoftSpot turns transparent automatically when it is not used.

Transparency Range

Sets the SoftSpot transparency level when it is used or when the auto-transparency feature is not enabled.

Speed of transparency

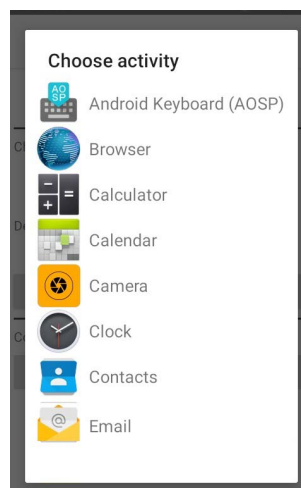
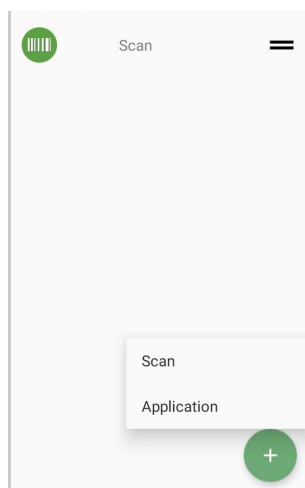
Sets the lapse of time it takes for the SoftSpot to turn transparent.



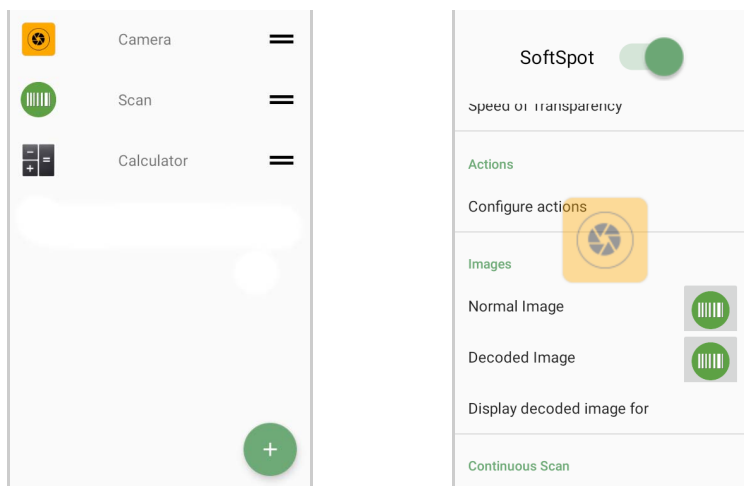
Actions

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

Tap **Configure actions** > **+** > **Application** to add the applications you want to launch with SoftSpot.



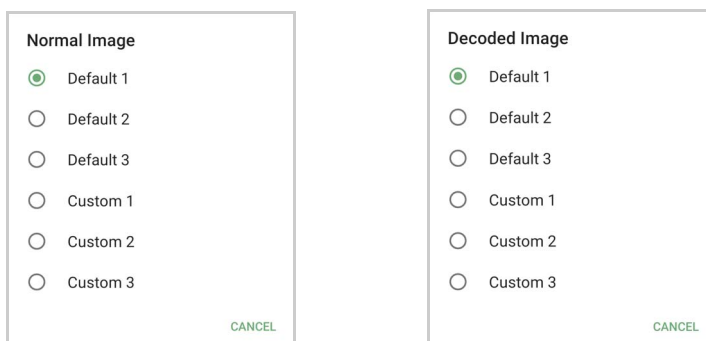
Only one action is active at a given moment. Tap the SoftSpot to launch the application. You can switch between actions by swiping left and right on the SoftSpot.



To remove an application from the actions list, tap and swipe right.

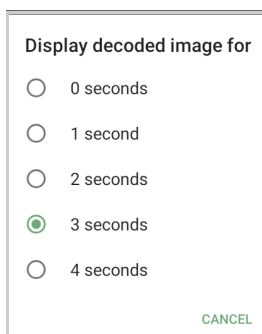
Images

Tap **Normal Image** and/or **Decoded Image** to change the SoftSpot images. You have six options: three default images and three custom images.



Display Decoded Image For

Sets the duration of the decoded image.

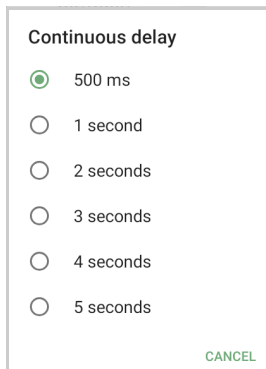


Enable Continuous Scan on Double Tap

To enable the Continuous Scan mode and scan barcodes consecutively, switch right and then double-tap the SoftSpot. Tap one more time to stop laser emission.

Continuous Delay

Allows to set the continuous delay time.

A dialog box titled "Continuous delay" with a list of radio button options. The first option, "500 ms", is selected and has a green dot next to it. The other options are "1 second", "2 seconds", "3 seconds", "4 seconds", and "5 seconds". A "CANCEL" button is located at the bottom right of the dialog.

Continuous delay

- ☒ 500 ms
- ☐ 1 second
- ☐ 2 seconds
- ☐ 3 seconds
- ☐ 4 seconds
- ☐ 5 seconds

CANCEL

SCAN2DEPLOY

Scan2Deploy is a configuration tool that uses special barcode labels. For more details, visit the website: <https://datallogic.github.io/scan2deploy>.

SURELOCK

With **SureLock** you can secure and lock the Memor K to ensure its responsible usage, improve productivity and reduce maintenance cost.

It allows access to only required applications and prevents the users from making any intended or unintended changes in the device. Only administrators can access the password protected settings to either modify lockdown configurations or exit the lockdown.

A Datalogic Standard version of **SureLock** is preloaded on the Memor K. You have the option to upgrade to the Advanced version by contacting 42Gears: <http://www.42gears.com/contact.html>.

Refer to the [SureLock Documentation for Android](#) on the 42Gears website for further details on **SureLock**.

SUREFOX

Businesses require use of browsers to run web applications on devices with Android and there may be situations when controlled web access for the users is required to ensure appropriate use of the devices.

SureFox creates locked browsing environment in your devices with Android making them apt for deployments as public web kiosks or as field devices for your mobile workforce. You can specify the websites that you wish to allow. **SureFox** will then block all other websites and allow the users to browse the allowed websites in locked down kiosk mode.

A Datalogic Standard version of **SureFox** is preloaded on the Memor K. You have the option to upgrade to the Advanced version by contacting 42Gears: <http://www.42gears.com/contact.html>.

Refer to the [SureFox Documentation for Android](#) on the 42Gears website for further details on **SureFox**.

TOOLS

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>.

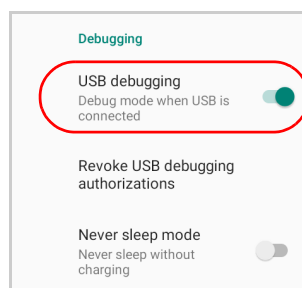
Install ADB Driver

1. Install Android SDK Manager (visit the website <https://datalogic.github.io/android/overview> for further information).
2. 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.

3. 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 > System > Advanced > About device** 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 > Advanced** 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 makers to create custom device features that can be immediately and universally supported by enterprise mobility managements (EMMs). 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>.

DATA CAPTURE

The Memor K has an integrated imager that collects data by scanning barcodes.

See "[Scanner Settings](#)" on [page 24](#) for instructions on configuring the scanner settings.

IMAGER DATA CAPTURE

The imager uses digital camera technology to take a digital picture of a barcode, the image is stored in memory and software decoding algorithms are executed to extract the data from the image.

To scan a barcode symbol:

1. Point the scan window at the barcode.
2. Press one of the scan triggers. 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 Key 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 beep plays.
- If enabled, the GreenSpot projects a green spot onto the barcode image.
- If enabled, the good read indicator positioned at the top left side of the display glows solid green.
- If **Enable display notification** is enabled, the decode results display on the screen (see "[Enable Display Notification](#)" on [page 25](#)).

CONNECTIONS

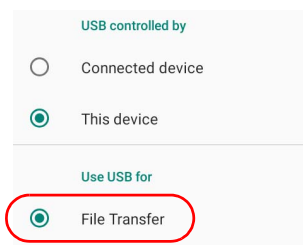
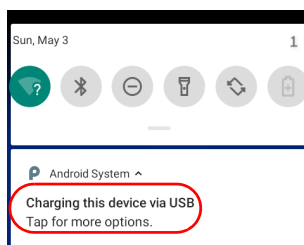
USB CONNECTION

USB Direct Connection

You can use the provided USB Type-C cable to directly connect the Memor K to a host computer and transfer data through the USB interface.



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



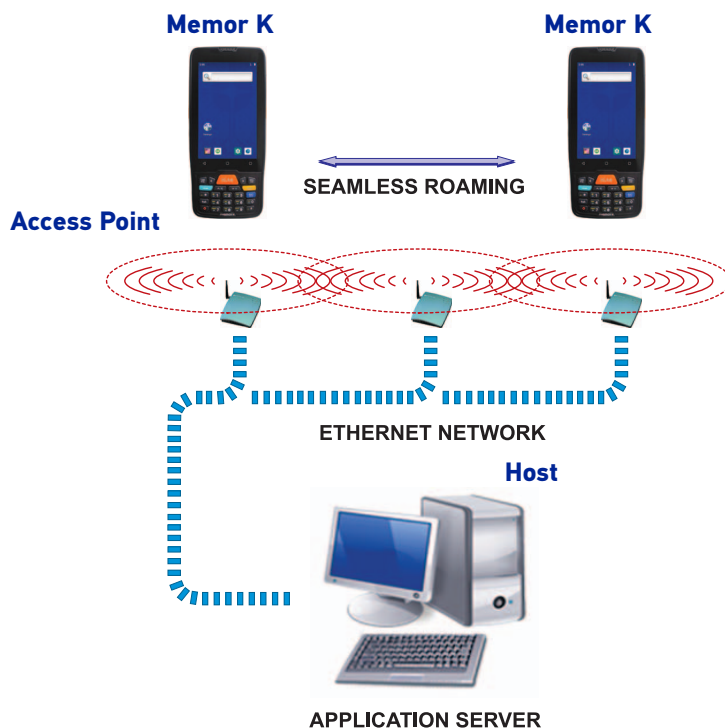
5. The device is now visible in your PC as a USB disk. You can start the data transfer.



CAUTION: Use only the USB Type-C cable provided in the box, or USB Type-C cable not longer than 3 meters.

WI-FI CONNECTION

The Memor K has a IEEE 802.11 a/b/g/n/ac and 802.11 k/r/v WLAN (Wireless Local Area Network) radio and can communicate with other 802.11 a/b/g/n/ac and 802.11 k/r/v 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 Memor K can communicate with a Bluetooth® device, such as a printer, within a range of 10 m, using the on-board Bluetooth® module.



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

NEAR FIELD COMMUNICATION (NFC)

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

Memor K 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.
- Peer-to-Peer (P2P) mode: the terminal uses Android Beam and/or Bluetooth® technology to transfer screen content (e.g., a picture, web page url, or file) between NFC enabled devices.
- 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 51).
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: Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications or attachments could damage the product and may violate laws and regulations.

Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals generated by Memor K.

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

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

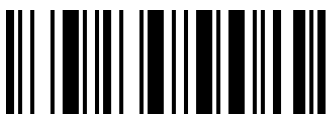
Physical Characteristics	
Dimensions	16 x 7.1 x 1.7 cm / 6.2 x 2.7 x 0.66 in
Weight	With Battery: 269 g / 9.5 oz
Display	4 inch WVGA resolution 800x480; LED backlight; Touch Screen: 5 points multi-touch capacitive panel with Dragontrail hardened glass
Keys	Backlighted 24 keys rubber keyboard, plus two side scan keys and two programmable side keys
Electrical	
Battery	Removable battery pack 3800mAh with rechargeable Li-Ion batteries;
Sensors	
Accelerometer	3-Axis accelerometer to detect orientation
Ambient Light	Auto adjusts display backlight
Proximity	Auto deactivates display when close to face
Interfaces	
Interfaces	USB-C: High Speed USB 2.0 OTG
Environmental	
Temperature	Operating: -20 to 50° C / -4 to 122° F Storage/Transport: -30 to 70° C / -22 to 158° F
Drop Resistance	Withstand 18 drops from 1,2m/4f to concrete all axis, according to IEC62-2-32 Method 1. Device with rubber boot: withstand 18 drops from 1,5m/5f to concrete all axis, according to IEC62-2-32 Method 1 with rubber boot
Tumbles	Device: exceeds 400 hits at 0,5 m (200 cycle) per IEC 60068-2-32 specification. Device with rubber boot: exceeds 600 hits at 0,5 m (300 cycle) per IEC 60068-2-32 specification
Particulate and Water Sealing	IP54

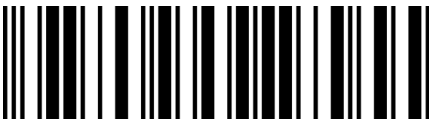
System	
Expansion Slots	Micro-SD card slot: Compatible with Micro SD-HC cards, up to 64GB; User-accessible
Memory	System RAM: 3 GB; eMMC Flash: 32 GB
Microprocessor	2 GHz Octa-core
Operating System	Android 9.0
Real-Time Clock	Time and date stamping under software control
Software	
Applications	Datalogic's SoftSpot technology for configurable soft triggers
Provisioning	QR Code enrollment, NFC Bump provisioning
Configuration and Maintenance	Scan2Deploy Studio
Development	Java, Cordova and Xamarin SDK available
MDM	SOTI MobiControl, VMWare AirWatch, Ivanti Avalanche, 42Gears SureMDM
Terminal Emulation	Ivanti Velocity
Decoding Capability	
1D/Linear Codes	Auto discriminates all standard 1D codes including GS1 DataBar™ linear codes
2D Codes	Aztec Code, Data Matrix, HanXin Code, MaxiCode, MicroQR Code, QR Code, EAN/JAN Composites, UPC A/E Composites
Postal Codes	Australian Post, Japan Post, British Post; China Post; IMB, Korea Post, KIX Code, PLANET, POSTNET, Royal Mail Code (RM4SCC)
Stacked Codes	Micro-PDF417, MacroPDF, PDF417, GS1 DataBar Composites, GS1 DataBar Expanded Stacked, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional
Reading Performance	
Camera	Resolution: 8 megapixel; Illumination: LED flash; Lens: Auto focus
Scan Engine	2D Ultra slim area imager (supports 1D / 2D codes); Datalogic's 'Green Spot' for good-read feedback; Resolution: VGA (640 x 480 pixels)
Scanning Rate	Up to 100 frames/sec
Print Contrast (Minimum)	25%
Minimum Element Width	1D Linear: 0.0762 mm / 4 mils; PDF417: 0.127 mm / 6.6 mils; Data Matrix: 0.195 mm / 7.5 mils

Wireless Communications	
Local Area Network (LAN)	IEEE 802.11 a/b/g/n/ac/d/e/i/w; Frequency range: Country dependent, typically 2.4 GHz and 5 GHz bands
Personal Area Network (PAN)	Bluetooth wireless technology v5 (Classic Bluetooth wireless technology and BLE)
NFC Communication	Support for the following standards: ISO14443-4 (type-A, type-B); ISO15693; Mifare; Felica
Safety & Regulatory	
Agency Approvals	The product meets necessary safety and regulatory approvals for its intended use
Environmental Compliance	Complies to EU RoHS
Warranty	
Warranty	1-Year Factory Warranty

TEST CODES

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

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

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

2D Codes
Datamatrix ECC200  Example
Inverse Datamatrix ECC200  Example

MAINTENANCE

CLEANING

Periodically clean the Memor K using a soft cloth slightly dampened with only water or Isopropyl Alcohol (70%). Do not use any other cleaning agents (e.g. different alcohol, abrasive or corrosive products, solvents) or abrasive pads to clean the device.

Do not spray or pour liquids directly onto the device.

The device is IP54 waterproof.

ERGONOMIC RECOMMENDATIONS



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

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

SAFETY AND REGULATORY INFORMATION



NOTE: Read this manual carefully before performing any type of connection to the Memor K.

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

GENERAL SAFETY RULES

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



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

TECHNICAL SUPPORT

SUPPORT THROUGH THE WEBSITE

Datalogic provides several services as well as technical support through its website. Log on to (www.datalogic.com).

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

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

Reseller Technical Support

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

REFERENCE DOCUMENTATION

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

WARRANTY

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

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

supply, batteries, etc.); or (11) any device on which the serial number is missing or not recognizable.

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

GLOSSARY

Access Point

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

ASCII

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

Barcode

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

Bluetooth®

A standard radio technology using a proprietary protocol. The onboard Bluetooth® module in the device is compatible with the 2.1 protocol with Enhanced Data Rate (EDR).

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.

Density (Barcode Density)

The number of characters represented per unit of measurement (e.g., characters per inch).

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.

ESD

Electro-Static Discharge

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.

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 and 5 GHz frequency bands. They are created and maintained by the IEEE LAN/MAN Standards Committee.

Laser

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

Light Emitting Diode (LED)

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

Liquid Crystal Display (LCD)

A display that uses liquid crystal sealed between two glass plates. The crystals are excited by precise electrical charges, causing them to reflect light outside according to their bias. They use little electricity and react relatively quickly. They require external light to reflect their information to the user.

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.

RF

Radio Frequency.

ROM

Read-Only Memory. Data stored in ROM cannot be changed or removed.

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). The USB standard, developed by several major computer and telecommunications companies, supports data-transfer speeds up to 12 megabits per second, multiple data streams, and up to 127 peripherals.

WLAN

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

WPAN

A Wireless Personal Area Network is a personal area network - a network for interconnecting devices centered around an individual person's workspace - in which the connections are wireless. Typically, a wireless personal area network uses some technology

that permits communication within about 10 meters - in other words, a very short range.

WWAN

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

NOTES

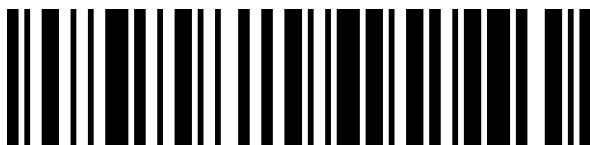
NOTES

© 2020 Datalogic S.p.A. and /or its affiliates • All rights reserved • Without limiting the rights under copyright, no part of this documentation may be reproduced, stored in or introduced into a retrieval system, or transmitted in any form or by any means, or for any purpose, without the express written permission of Datalogic S.p.A. and/or its affiliates • Datalogic and the Datalogic logo are registered trademarks of Datalogic S.p.A. in many countries, including the U.S. and the E.U.



Datalogic S.r.l.

Via S. Vitalino, 13 | 40012 Calderara di Reno | Bologna - Italy
Tel. +39 051 3147011 | Fax +39 051 3147205



822004220

(Rev A)

September 2020