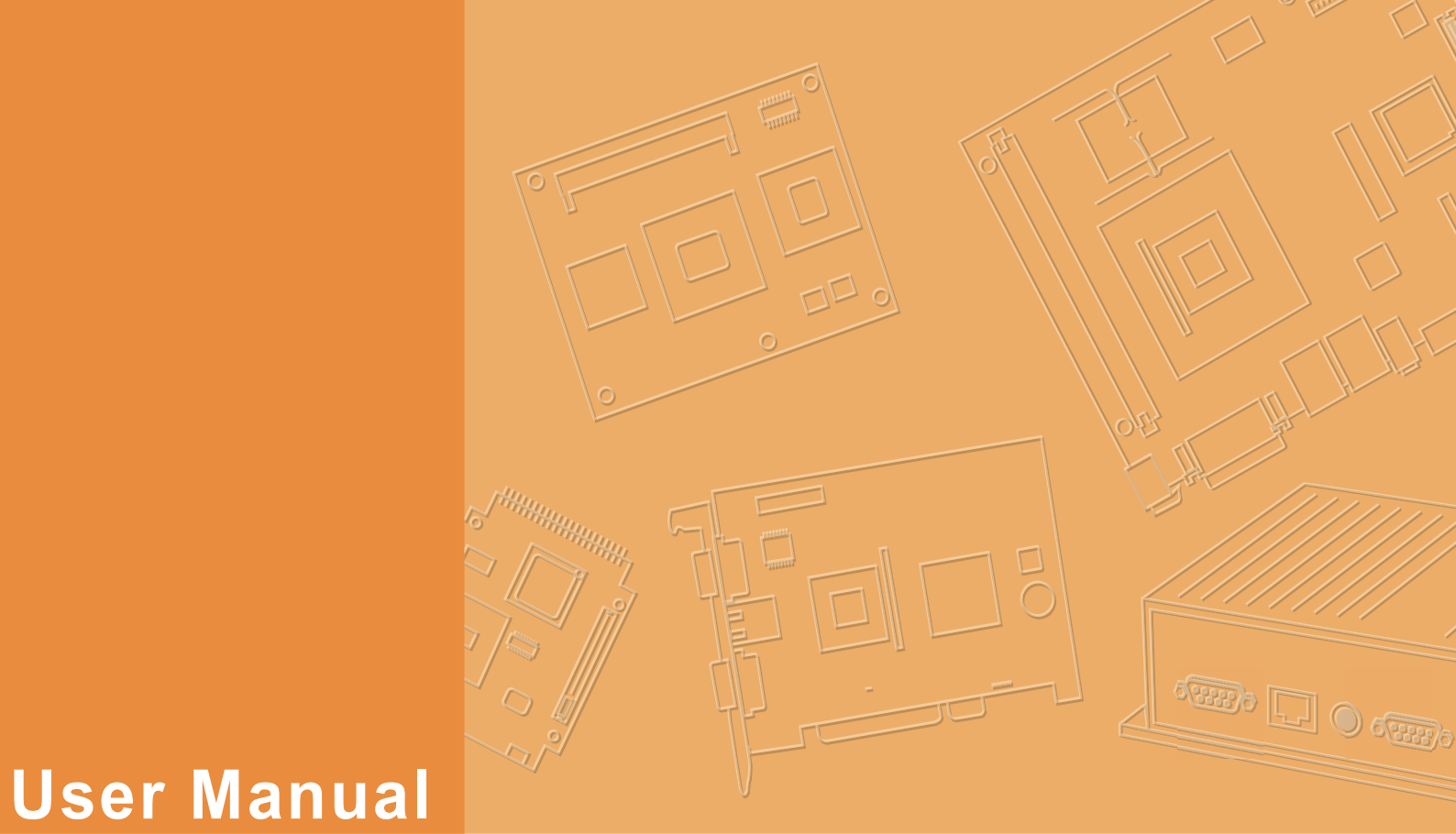




User Manual

Android™ 14 for USC-115RC

ADVANTECH

Enabling an Intelligent Planet

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This manual is applicable to USC-115RC.

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Product Warranty (2 years)

Advantech warrants the original purchaser that each of its products will be free from defects in materials and workmanship for two years from the date of purchase.

This warranty does not apply to any products that have been repaired or altered by persons other than repair personnel authorized by Advantech, or products that have been subject to misuse, abuse, accident, or improper installation. Advantech assumes no liability under the terms of this warranty as a consequence of such events.

Because of Advantech's high quality-control standards and rigorous testing, most customers never need to use our repair service. However, if an Advantech product is defective, it will be repaired or replaced free of charge during the warranty period. For out-of-warranty repairs, customers will be billed according to the cost of replacement materials, service time, and freight. Please consult your dealer for more details.

If you believe your product is defective, follow the steps outlined below.

1. Collect all the information about the problem encountered (for example, CPU speed, Advantech products used, other hardware and software, etc.). Note anything abnormal and list any messages displayed on screen when the problem occurs.
2. Call your dealer and describe the problem. Please have your manual, product, and any helpful information readily available.
3. If your product is diagnosed as defective, obtain a return merchandise authorization (RMA) number from your dealer. This allows us to process your return more quickly.
4. Carefully pack the defective product, a completed Repair and Replacement Order card, and a proof of purchase date (such as a photocopy of your sales receipt) into a shippable container. Products returned without a proof of purchase date are not eligible for warranty service.
5. Write the RMA number visibly on the outside of the package, and ship the package prepaid to your dealer.

Declaration of Conformity

FCC Class A

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in such cases users are required to correct the interference at their own expense.

Warning! Any modifications to this device that are not approved by the relevant standards authority may void the authority granted to the user by the FCC to operate this equipment.



Technical Support and Assistance

1. Visit the Advantech website at <http://support.advantech.com> to obtain the latest product information.
2. Contact your distributor, sales representative, or Advantech's customer service center for technical support if you need additional assistance. Please have the following information ready before calling:
 - Product name and serial number
 - Description of your peripheral attachments
 - Description of your software (operating system, version, application software, etc.)
 - A complete description of the problem
 - The exact wording of any error messages

Warnings, Cautions, and Notes

Warning! *Batteries are at risk of exploding if incorrectly installed. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.*



Warning! *For the USC-115RC VESA version, when using a DC Jack 12V/5A input, the Type C output is 5V/2A.*



For the optional USC-115RC VESA version, when using a Type-C adapter, the rated input voltage is DCIN 20V/3.25A.

For the USC-115RC Stand version, when using a DC Jack 12V/7A input, the Type C output is 5V/3A.

For the USC-120RC, the rated input voltage is DC Jack 12V/7A, or when using the optional Type-C adapter, the rated input voltage is DCIN 20V/3.25A.

For the USC-110RC, the rated input voltage is DC Jack 12V/5A, or when using the optional Type-C adapter, the rated input voltage is DCIN 20V/3.25A.

If consumers use a power adapter, they should purchase one that is CCC-certified and meets the required standards.

If consumers use a power cord, they should purchase one that is CCC-certified and meets the required standards.

Computers not for personal use.

Use a 3V/195mA lithium battery.

Packing: The unit should be carried with both hands and handled with care.

Maintenance: Use only approved products or a dry applicator to clean and maintain the surfaces.

CompactFlash: Turn off the system power before inserting or removing the CompactFlash storage card.

Packing List

Before beginning installation, check that the following items have been included with the product:

- 1 x USC-115RC unit
- Accessories for USC-115RC
 - 60W adapter (USC-115RC)

If any of the above items are missing or damaged, contact your distributor or sales representative immediately.

Safety Instructions

1. Read these safety instructions carefully.
2. Retain this user manual for future reference.
3. Disconnect this equipment from all power outlets before cleaning. Use only a damp cloth to clean. Do not use liquid or spray detergents.
4. For pluggable equipment, the power outlet socket must be located near the equipment and easily accessible.
5. Protect this equipment from humidity.
6. Place this equipment on a reliable surface during installation. Dropping or letting the device fall may cause damage.
7. The openings on the enclosure are for air convection. Protect the equipment from overheating. Do not cover the openings.
8. Ensure that the voltage of the power source is correct before connecting the equipment to the power outlet.
9. Position the power cord away from high-traffic areas. Do not place anything over the power cord.
10. All cautions and warnings on the equipment should be noted.
11. If unused for a long time, disconnect the equipment from the power source to avoid damage from transient overvoltage.
12. Never pour liquid into an opening. This may cause fire or electrical shock.
13. Never open the equipment. For safety reasons, the equipment should be opened only by qualified service personnel.
14. If one of the following situations occurs, have the equipment checked by service personnel:
 - The power cord or plug is damaged.
 - Liquid has penetrated the equipment.
 - The equipment has been exposed to moisture.
 - The equipment is malfunctioning, or does not operate according to the user manual.
 - The equipment has been dropped and damaged.
 - The equipment shows obvious signs of breakage.
15. Do not place the equipment in an environment with a storage temperature of below -20 °C (-4 °F) or above 60 °C (140 °F) as this may cause damage. The equipment should be kept in a controlled environment.
16. Caution: Batteries are at risk of exploding if incorrectly installed. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.
17. Use only the recommended mounting apparatus to avoid damaging the device due to a fall.

-
18. In accordance with the IEC 704-1:1982 specifications, the sound pressure level at the operator's position does not exceed 70 dB (A).

DISCLAIMER: These instructions are provided according to IEC 704-1 standards. Advantech disclaims all responsibility for the accuracy of any statements contained herein.

Warning! *Because of the risk of electric shock, do not remove the equipment cover during operation or when connected to a power outlet.*



Caution! *To avoid short circuits and otherwise damaging the device, do not allow fluids to come in contact with the device. If fluids are accidentally spilled on the equipment, remove the affected unit from service as soon as possible. Then contact qualified service personnel to verify that staff safety has not been compromised. If the computer clock is unable to maintain accurate time or the BIOS configuration resets to the default settings, check the battery.*



Caution! *Do not replace the battery yourself. Contact a qualified technician or your retailer. The computer is equipped with a battery-powered real-time clock circuit.*



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Chapter 1

General Information

1.1 Introduction

Advantech's USC-115RC series with GMS/EDLA certification is a secure, ARM-based Enterprise AIO ideal for retail applications like kiosks, digital signage and POS systems, offering seamless integration and high compatibility. It is aimed at key markets such as retail, hospitality, and smart city applications, provide Google service integration, and enterprise-grade security compliance.

1.2 Specifications

1.2.1 USC-115RC

Table 1.1: Specifications

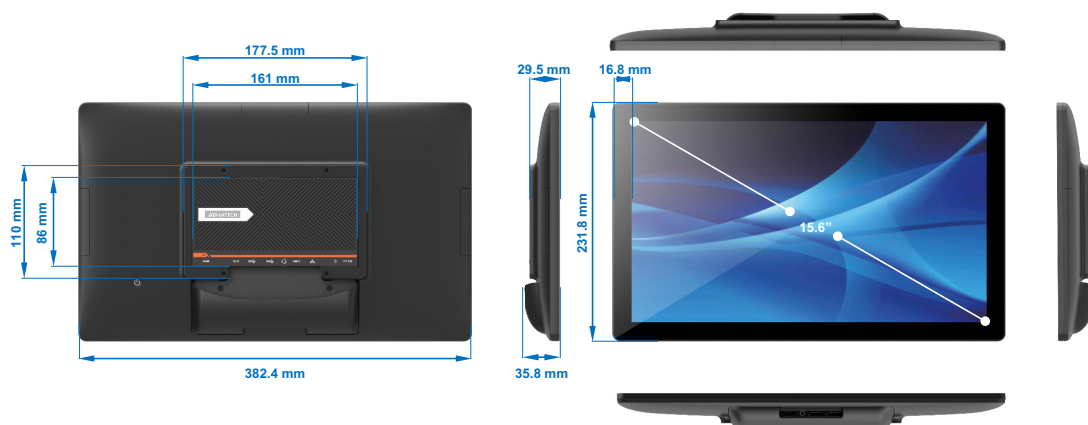
Model		USC-115RC (VESA)	USC-115RC (Stand)
Processor		Rockchip RK3576 (ARM® Quad-core Cortex-A72 @2.2GHz+ Quad-core Cortex-A53 @ 1.8GH)	
	Chipset	SoC	
	NPU	Integrated NPU with 6 TOPS	
Graphics	GPU	ARM Mali-G52	
Security	TPM	None	
Memory		LPDDR4 4 GB onboard (8G optional)	
LCD Display	Size/Type	15.6" FHD	
	Max. Resolution	1920 x1080	
	Max. Color	16.7M	
	Pixel Pitch (um)	179(H) x 179(V)	
	Brightness (cd/m ²)	350	
	View Angle	170°/170°	
Touch Screen	Type	Projected Capacitive	
	Light Transmission	>85%	
	Controller	USB Interface	
I/O - Front	Video	USB-C x1 @1920*1080 HDMI2.1 x1	
	Audio	Audio-Out + MIC-in, Combo Audio Jack x1	
	USB	USB 3.1 Gen1 Type A (Blue) x2	3X USB2.0& UART for RS-232 x2 (422/485 optional by jumper)
		USB-C (Supports DP 1920*1080 video output, 5V/3A, PD2.0, USB 3.1 Gen1 data transfer, OTG (USB2.0)) x1	
	LAN	RJ45 x1 (1 x 10/100/1000 Mbps)	
	Cash Draw	RJ12 (12V) x1	
	Power Jack	DC 12V/60W x1	
	Button (Rear)	Power Button & LED x1	
I/O - Side & Top	Expansion	Micro SD Card Slot x1 for additional storage (side)	
	Button	Upgrade Button x1	
Other	Speaker	2x 2W	
	Mount Options	VESA 100 x 100 mm (Screw Size, M4, 7mm)	
	Hatch	4 sides hatch auxiliary mounting for optional modules (up, bottom, right, left with USB interface)	
	Built-in module (optional)	RD60 NFC module	
		Support ISO/IEC 14443A, ISO/IEC 14443B PICC	
Storage	POE (optional)	PoE+ 25W (on- board)	
		Onboard eMMC 5.1: 64 GB	

Table 1.1: Specifications

W-Fi/Bluetooth	IEEE 802.11 b/g/n/ac/ax Wi-fi compliant+ Bluetooth 5.2 (on-board)
Operating system	Android 14 GMS, Android 14

1.3 Dimensions

1.3.1 USC-115RC VESA Version



1.3.2 USC-115RC Stand Version



Chapter 2

System Setup

2.1 Quick Tour

Before setting up the device, take a moment to familiarize yourself with the connector locations and functions, as shown in the images below.

2.1.1 Front View



Figure 2.1 USC-115RC VESA Version

2.1.2 Rear View



Figure 2.2 USC-115RC VESA Version

2.1.3 Front View



Figure 2.3 USC-115RC Stand Version

2.1.4 Rear View



Figure 2.4 USC-115RC Stand Version

2.1.5 Side View



Figure 2.5 USC-115RC Stand Version

2.1.6 Screen Down View



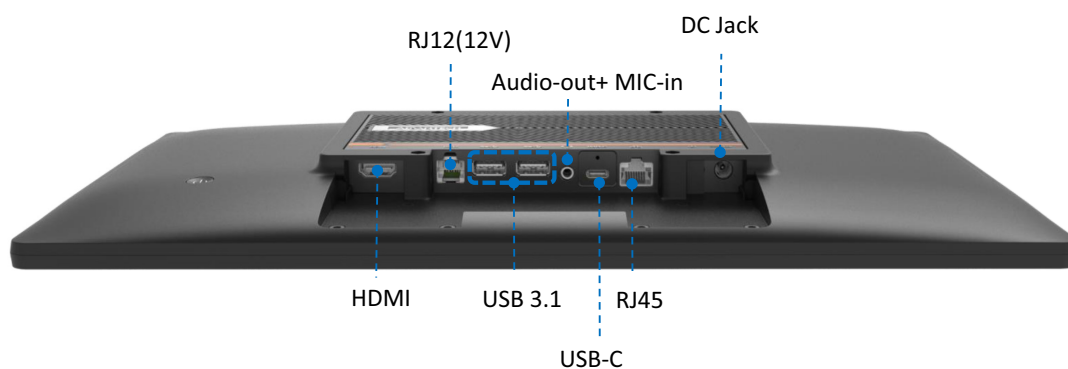
Figure 2.6 USC-115RC Stand Version

Note! For mounting, use only a VESA-compatible floor, stand, or wall mount kits. See Appendix A for additional details.

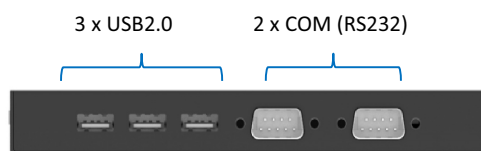
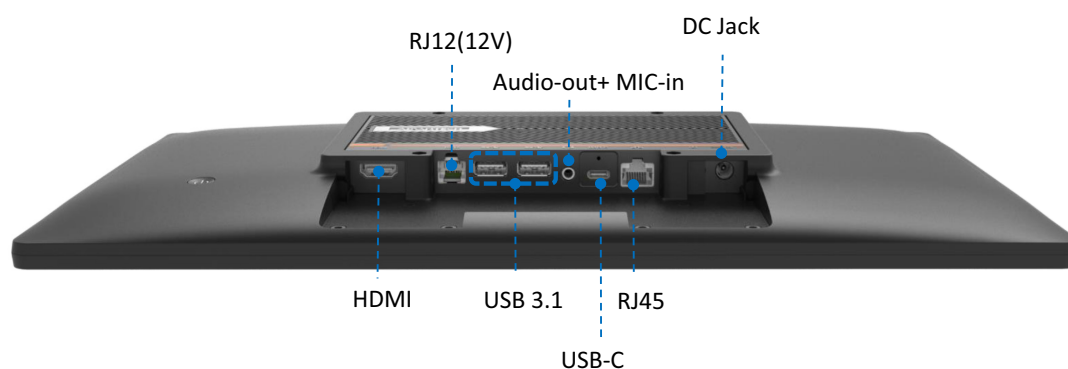


2.2 I/O Ports

2.2.1 USC-115RC VESA Version



2.2.2 USC-115RC Stand Version



Extension IO in USC-115RC Stand

2.3 Setup Procedures

2.3.1 System Power On

1. Connect the device to the power adapter provided in the shipment.
2. Hold the power cord by the plugs ends only. Refer to Section 2.2 for the location of the DC power input and power switch.
3. Press the power button rear side to activate the system.

Since the core box of USC-115RC is UBX-110RC, GMS is also based on UBX-110RC, so the software is named UBX-010RC.

2.4 Supported Hardware and Peripherals

Android is running on UBX-010RC model variants. Android is supporting following peripherals:

- USB keyboards/mass storage (USB-Sticks)
- USB/Serial hand-held scanners
- I2C NFC module
- USC-C for extend monitor (USC-M10/USC-M15W)

2.5 Android for UBX-010RC - Overview

Android is based on aGoogle® Android Open Source Project and built for enterprise environment.

- Kernel Version: 6.1.134
- Android security patch level: June 5, 2025
- Android Version: 14
- CPU Type: Rockchip® RK3576 SOC
- Processor Configuration and ABI (Application Binary Interface): ARMv8

Android is delivered as a User Build Image signed with Advantech certificates.

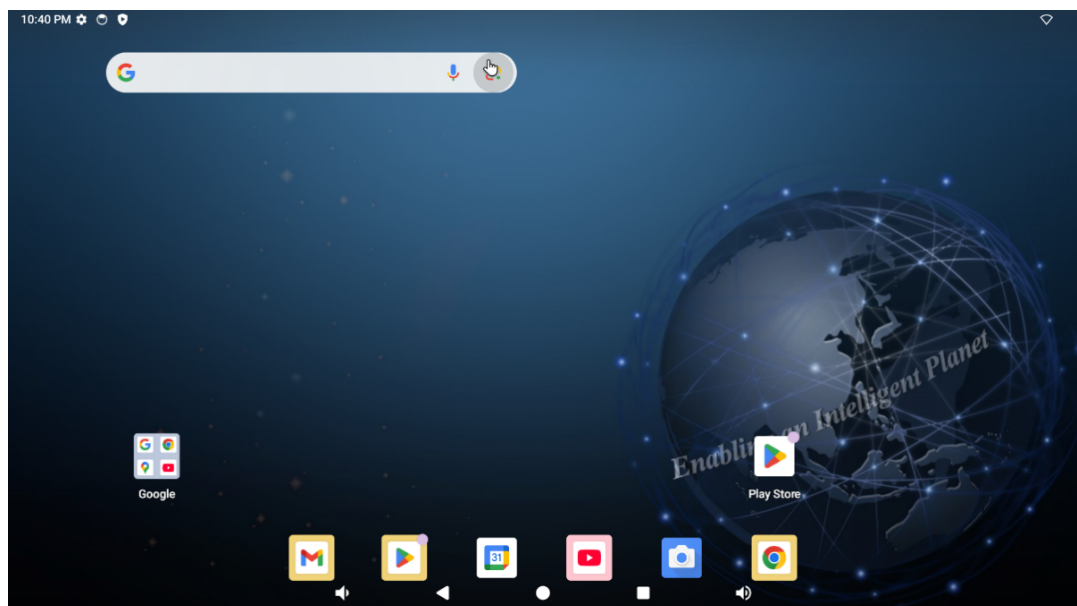


Figure 2.7 Android for UBX-010RC – Advantech Home Screen (GMS)

2.5.1 Main Applications Integrated with Android

The following table provides an overview of the main applications integrated with Android:

Table 2.1: Main Applications Integrated with Android		
Application	Source	Description
Advantech MFocus	Advantech	Allows Kiosk Mode operation of the device
Android Agent	Advantech	DeviceOn IService Android Agent
Calculator	Google®	Standard Android Calculator application
Calendar	Google®	Standard Android calendar application
Clock	Google®	Standard Android clock application
Files	Google®	Standard Android file manager application
Gallery	Google®	Standard Android gallery application
Music	Google®	Music Player
Search	Google®	Standard Android search application
Secure Policy Setting	Google®	Installation pack of OS Setting function for DeviceOn Android Agent.
Settings	Google®	Menu used to configure system, including roaming behavior.
Sound Recorder	Google®	Sound Recorder
Videos	Google®	Video Player
WebView Browser Tester	Google®	Standard Android web browser application

2.5.2 Optimized for Enterprise Use

For enhanced security and guaranteed system stability, Android for UBX-010RC is optimized for enterprise use. Some applications commonly found on Android based consumer devices are removed:

Table 2.2: Optimized for Enterprise Use		
Application	Reason of removal	Description
Phone	Not supported on device	Telephony services
Camera	Not supported on device	Camera app
Contacts	Not relevant for device	An app to handle personal contacts
Torch	Not supported on device	Torch application using a camera's flash light
MMS	Not supported on device	Multimedia Messaging Service

2.5.3 Google® Mobile Services (GMS)

When using the UBX-010RC GMS certified image, you can use the following additional applications:

Table 2.3: Google® Mobile Services (GMS)

Application	Source	Description
Gmail	Google®	Standard Google® Mail application
Play Store	Google®	Store to download Google® certified applications
Chrome	Google®	Standard Google® Web Browser
Drive	Google®	Google® Workspace
Google	Google®	Google® Search Engine
Google TV	Google®	Google® TV application
Maps	Google®	Google® Maps
Meet	Google®	Google® application for online meetings
Photos	Google®	Google® application for Photos Please note that an external connected USB camera is required (not integrated).
YouTube	Google®	Online video sharing platform owned by Google®

2.5.4 Licensing

By using Android, you implicitly accept the license terms of the Android Open-Source Project.

Detailed information on the related licenses and legal terms are available on **Android under Settings -> About tablet -> Legal information**.

Please note that specific applications from third parties may have individual license terms and may prompt you to accept these when first launching the app.

Chapter 3

Hardware Installation

3.1 Introduction

The USC-115RC series devices are PC-based computers housed in an plastic enclosure. To perform system maintenance or hardware upgrades, simply remove the rear cover of the device.

Warning! Only remove the rear cover after verifying that there is no power flowing within the device. The device should be switched off and the power cord unplugged before opening the device enclosure.



3.2 Remove and Replace the Peripheral Covers

1. After turning the power off and disconnecting all cables, place the USC-115RC series computer face-down on a soft, flat surface.



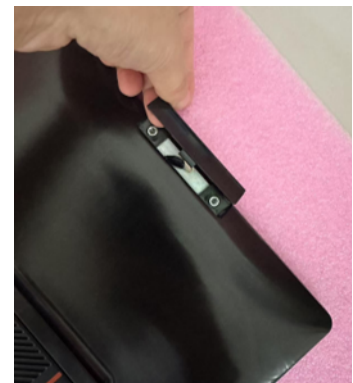
2. Remove or replace the right, left and top cover.



Left peripheral cover



Right peripheral cover



Top peripheral cover

3. Remove all peripheral covers.



3.3 Remove and Replace Cable Cover

1. Find the hook position pointed by your finger.



2. Apply force in the direction of the machine to release the stress of the hook and cause deformation.



3. Remove the left and right inner plugs facing you to remove the cable cover.



Notice: Do not pull the cable cover upwards, as this will tighten the hooks on the cable cover.

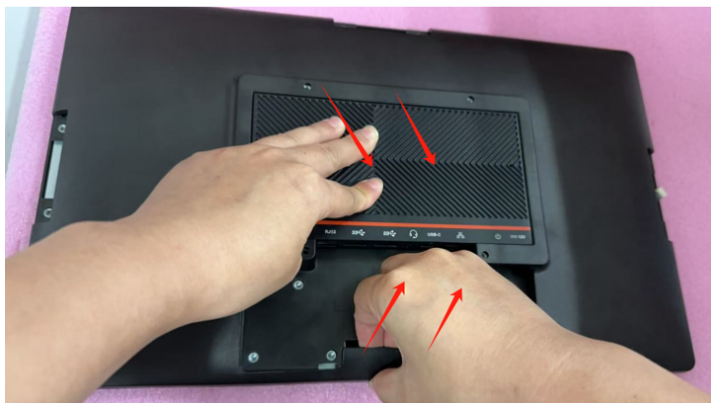


3.4 Remove and Replace Back Cover

1. Remove 8 screws.



2. Press the heat sink with one hand and lift up the holder below with the other hand to remove the back cover.



Chapter 4

Settings Menu

4.1 Common Settings

Android can be configured using the Settings menu as found on commercial Android devices.

Note! Please refer to documentation available on the Internet for common Android settings and features.



The following section provides an overview and addresses aspects, which are specific to Android.

4.2 Suggestions

This section contains suggestions created automatically by the Android system.

4.2.1 Network & Internet

- **WLAN**

The menu item shows you the current enablement and connection status. Clicking on the item is taking to the wireless settings menu, which is described in greater detail in manual section 5.1 WLAN Roaming.

- **Ethernet**

The menu item shows you the current enablement and connection status. Clicking on the item is taking to the Ethernet settings menu, which is described in greater detail in manual section 5.2 Ethernet settings.

4.2.2 Connected Devices

- **Bluetooth**

This menu item shows the current status of the Bluetooth connection. This item can be used to enable/disable Bluetooth support as well as perform pairing with Bluetooth devices.

- **NFC**

This menu item shows the current status of the NFC connection. This item can be used to enable/disable NFC support as well as perform pairing with NFC devices. NFC uses frequency 13.56MHz specified by – ISO/IEC 14443A?ISO/IEC 14443B PICC, NFCIP-1?NFCIP-2 agreement.

Note! For further information please see the *UBX-010RC manual* on our websites: www.advantech.com



4.2.3 General Settings

■ Apps & Notifications

The menu item allows managing the apps installed on your device. Please note that apps, which have been pre-integrated into Android, cannot be uninstalled. To deactivate such an app, choose Disable in the related submenu. The submenu Notifications can be used to manage which type of notification privileges individual apps have on the system.

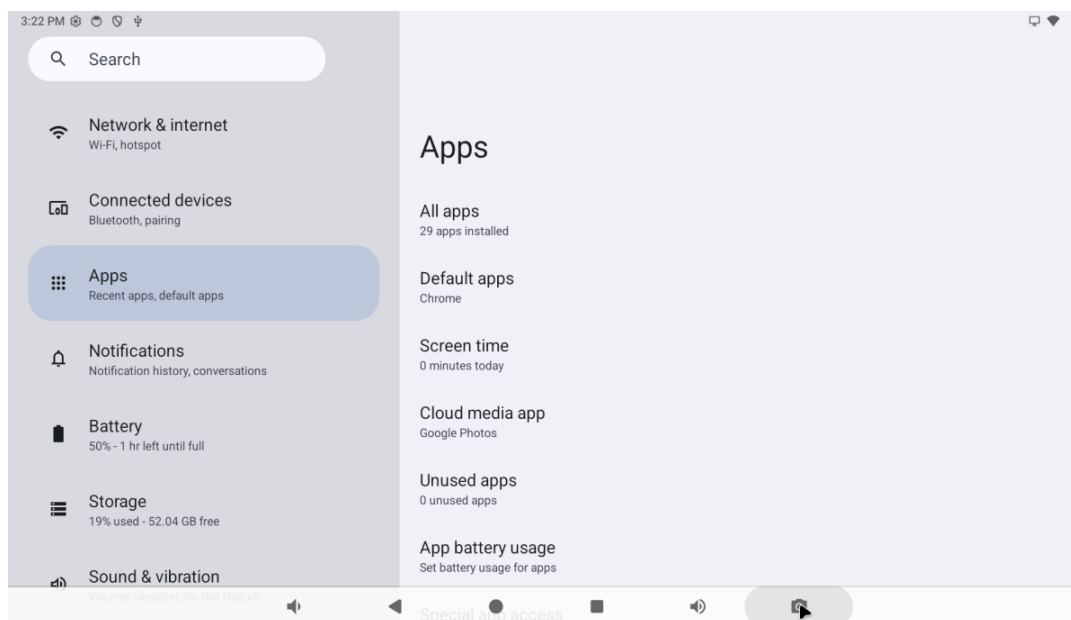


Figure 4.1 General Settings – Apps & Notifications

■ Storage

This menu item shows you the current internal storage usage.

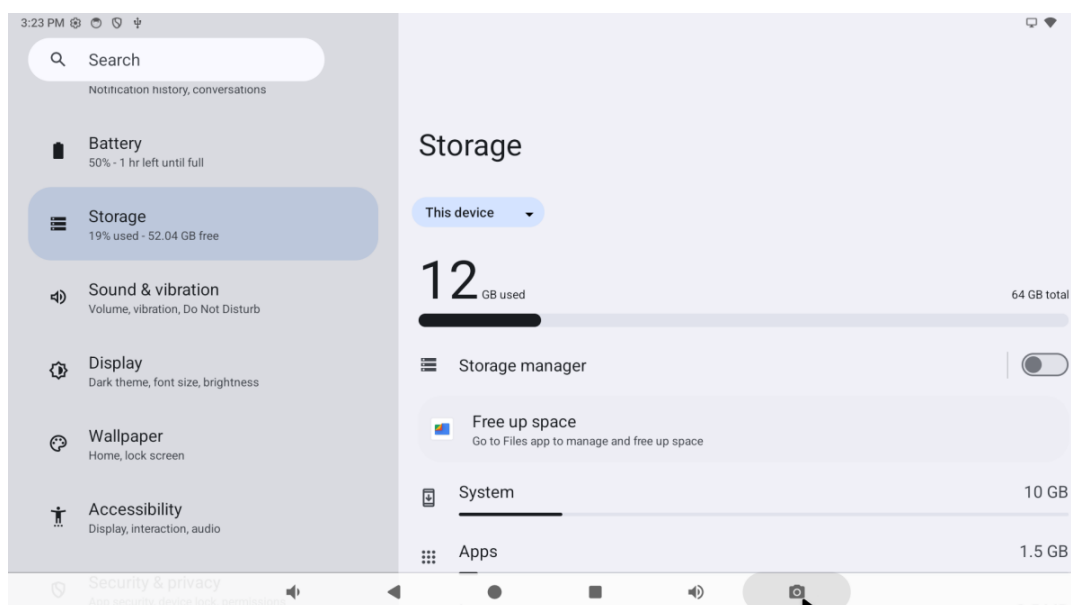


Figure 4.2 General Settings – Storage

Note! If required, the internal storage can be enhanced with an optional SD card.



■ Sound

This item takes you to a submenu that allows tweaking the volume for different type of system sounds as well as select the related ringtones.

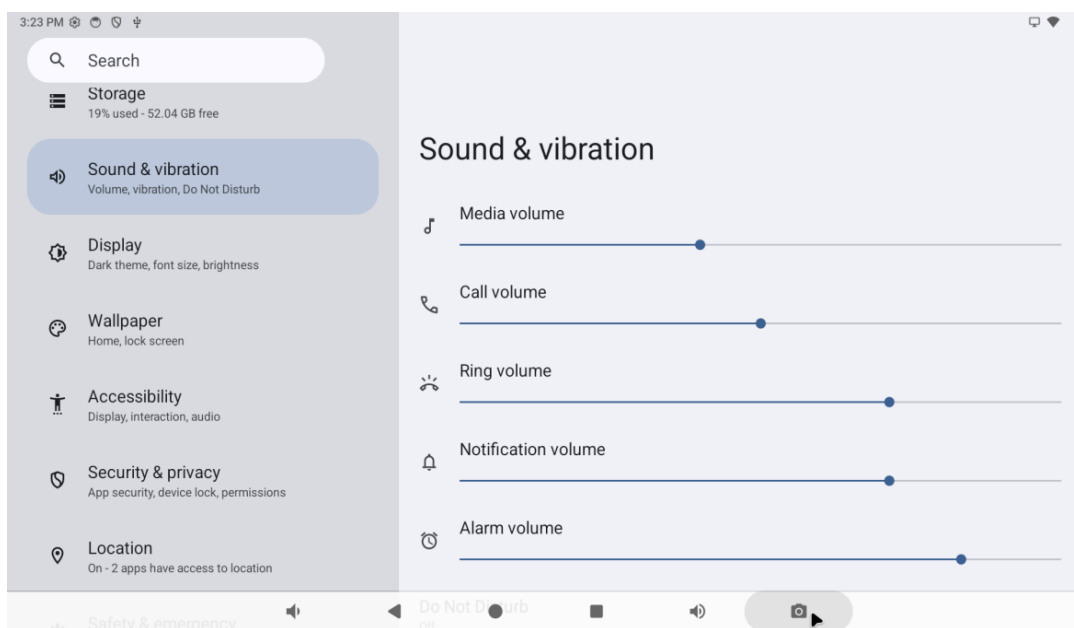


Figure 4.3 General Settings – Sound

■ Display

This item takes you to a submenu that provides configuration options for the user interface such as selecting a wallpaper or defining font sizes. Please note that display brightness is managed by the related buttons brightness control.

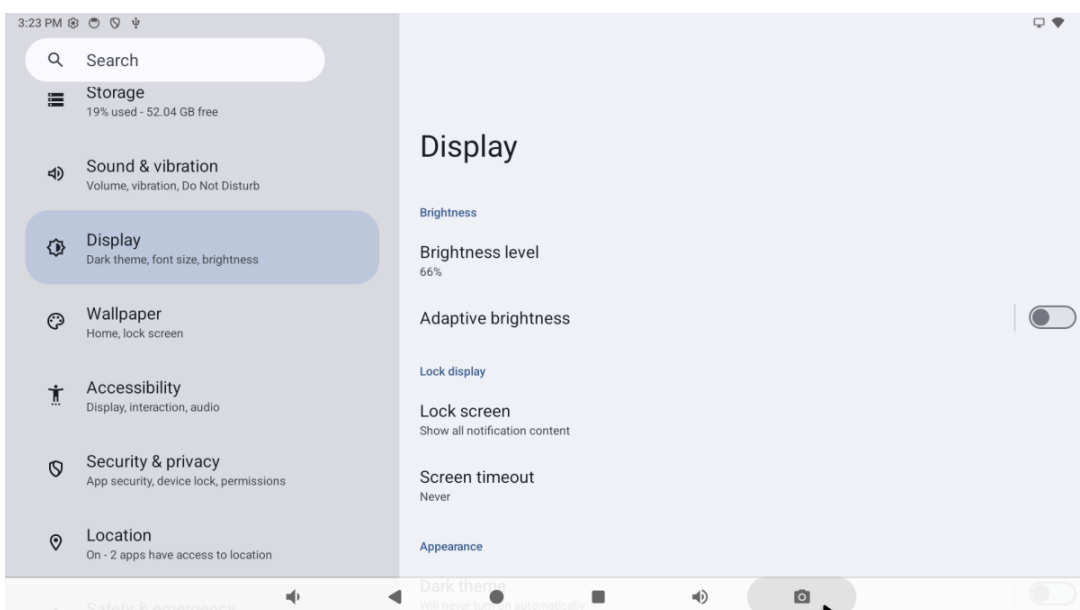


Figure 4.4 General Settings – Display

■ Accessibility

Accessibility allows configuring various aspects of the user interface of your device. A submenu opens when you click on this item.

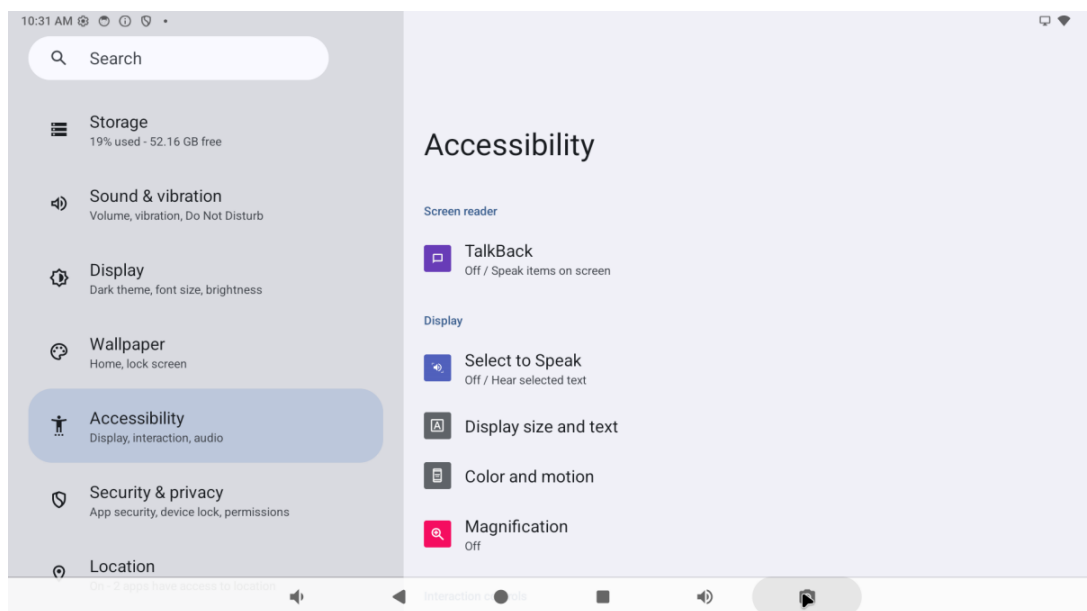


Figure 4.5 Security and Location – Accessibility

■ System - Multiple Users

This item allows you to add multiple users to the device. Details are described in section [5.7 Multiple Users](#).

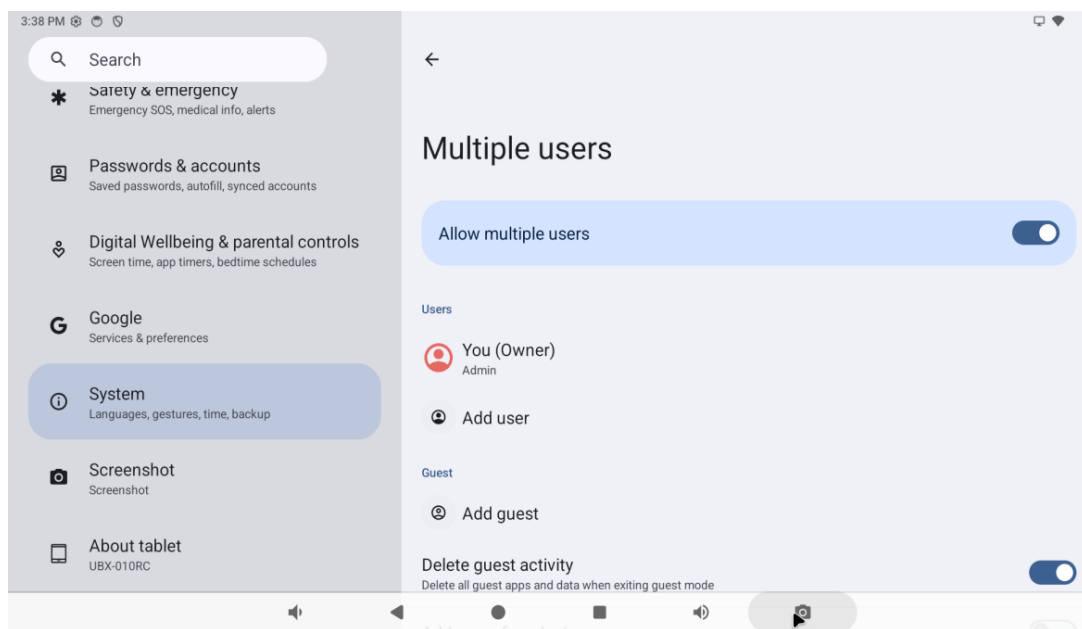


Figure 4.6 General Settings – Multiple Users

4.2.4 Security & Location

■ Device Security

This item takes you to a submenu for managing the system's security settings. **Screen lock** provides the option to enable and configure the timeout for a lock screen. This option is disabled by default.

Location allows you to enable device location.

Show passwords defines if password characters are visible on screen when typing passwords or not.

Device admin apps allows managing the privileges for device administration.

Encryption & credentials allows you to encrypt the device completely.

Trusted Credentials contains a list of certificate authorities, which are regarded trusted by the Android Open-Source Project. If you wish to install applications that have been signed, the certificates used for signing the apps need to be rooted back into one of the Trusted CAs listed.

User credentials allows managing user passwords.

Install certificates from storage allows installing certificates via storage devices or via downloading from a web site.

Clear credentials perform a wipe of all certificates installed.

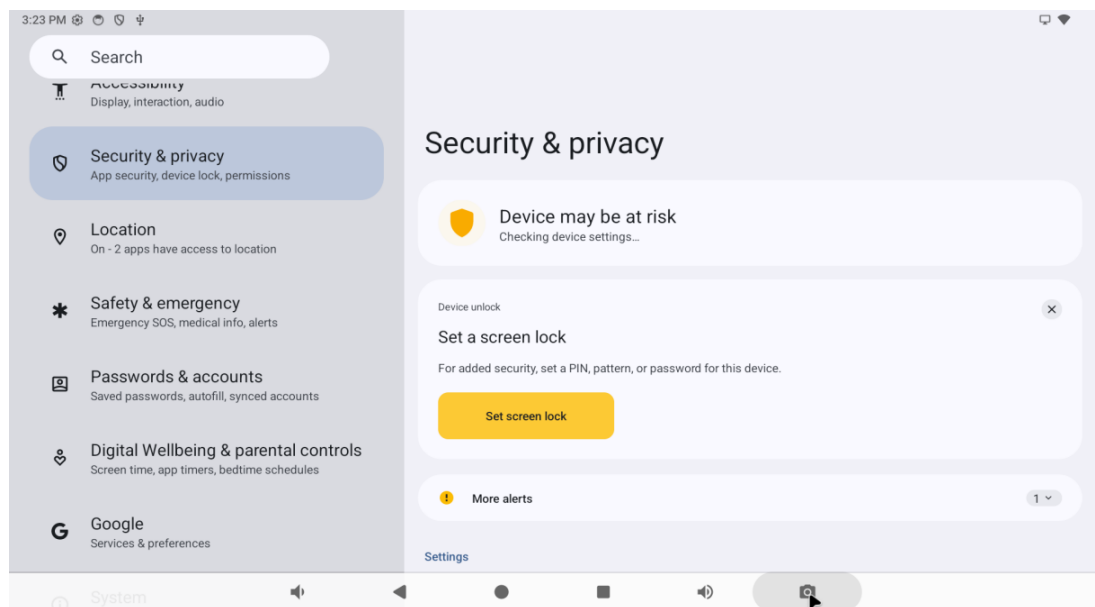


Figure 4.7 Security and Location – Device Security

- **Passwords & accounts**
This item allows managing accounts on your device.

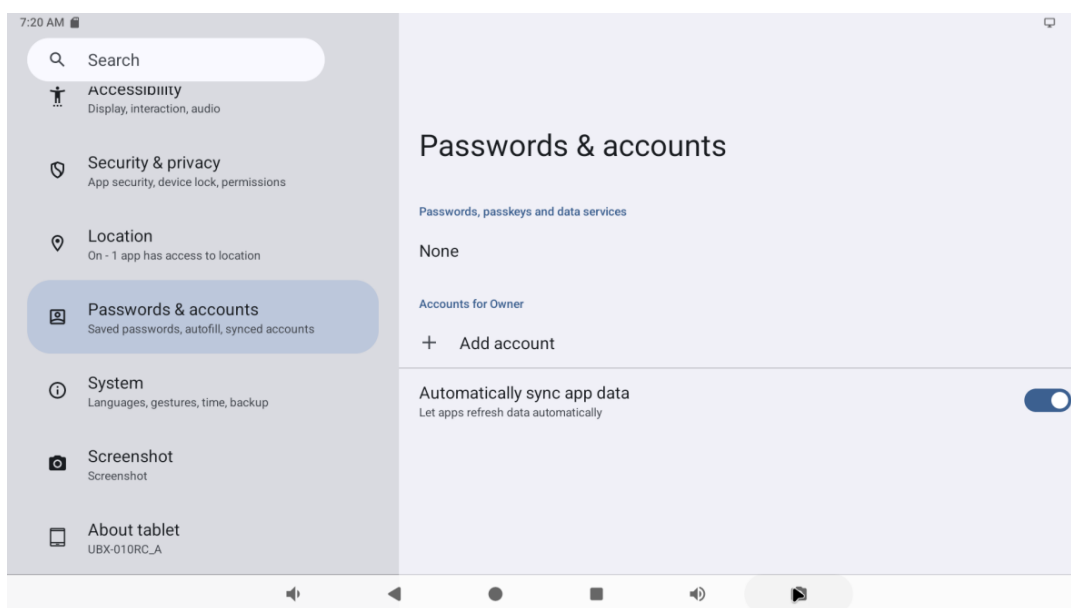


Figure 4.8 Security and Location – Passwords & Accounts (AOSP)

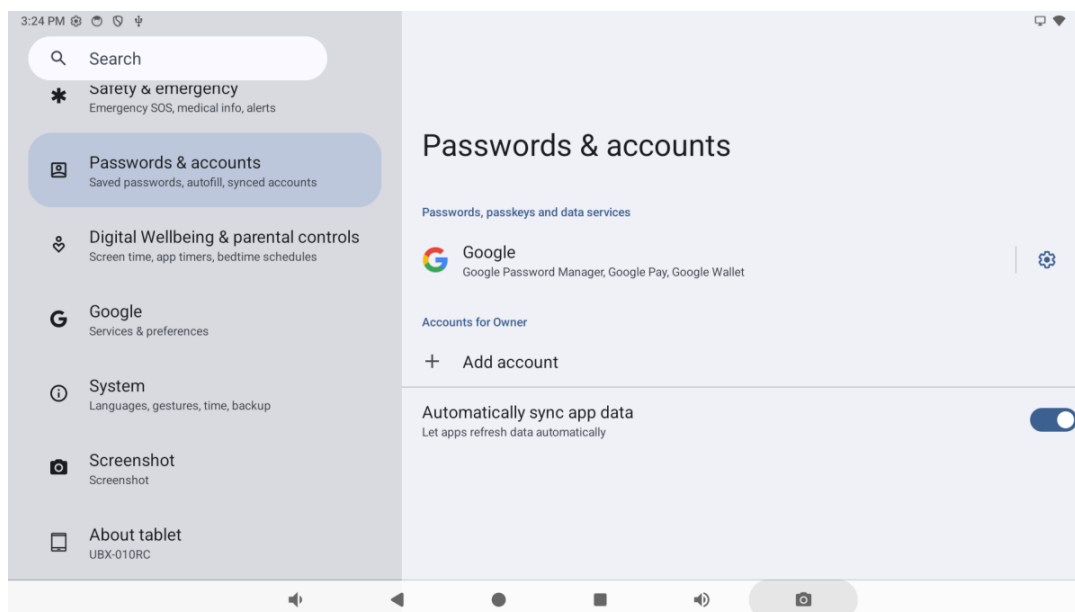


Figure 4.9 Security and Location – Passwords & Accounts (GMS)

4.2.5 System

■ About Tablet: Obtaining information about your device

About Tablet provides you with a wealth of information about your device.

Legal Information provide details about the licenses of the Android system as well as any 3rd party applications.

Model is the UBX-010RC.

Android Version provides Google's Version number for the Android installed on your system.

Android security update represents the information, which is the last security update that has been integrated into Android. Clicking on this item will open a hyperlink and guide you to the related Android security bulletin.

Kernel Version provides detailed version information on the underlying Linux Kernel of Android.

Advantech Version provided Advantech's Version number for the Android installed on your system.

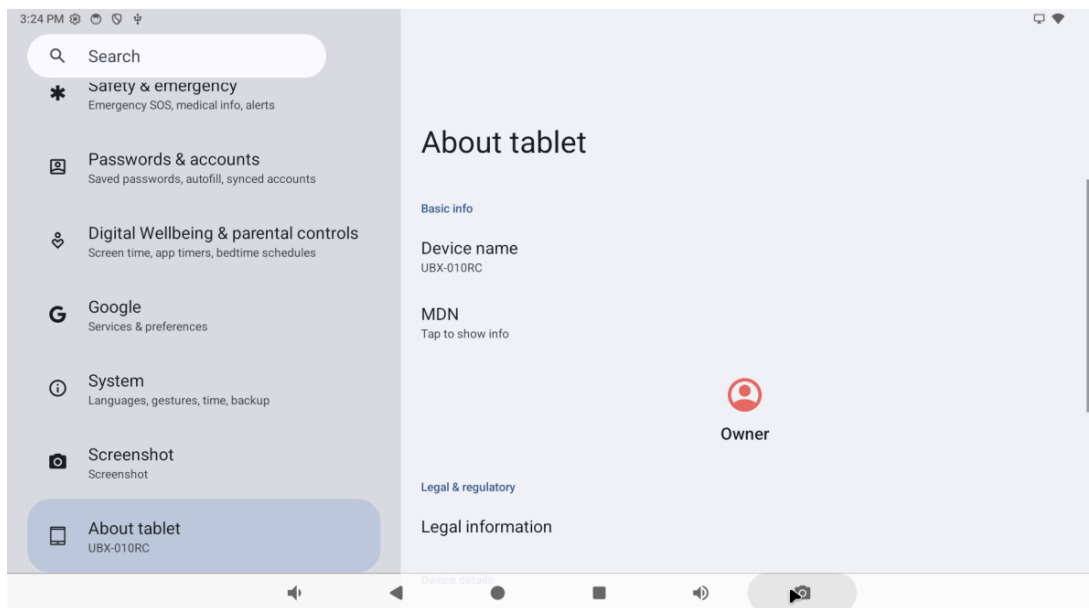


Figure 4.10 System – About Tablet

■ Languages & input

This item allows configuring various input options such as the keyboard language and layouts as well as spelling checking and user dictionaries.

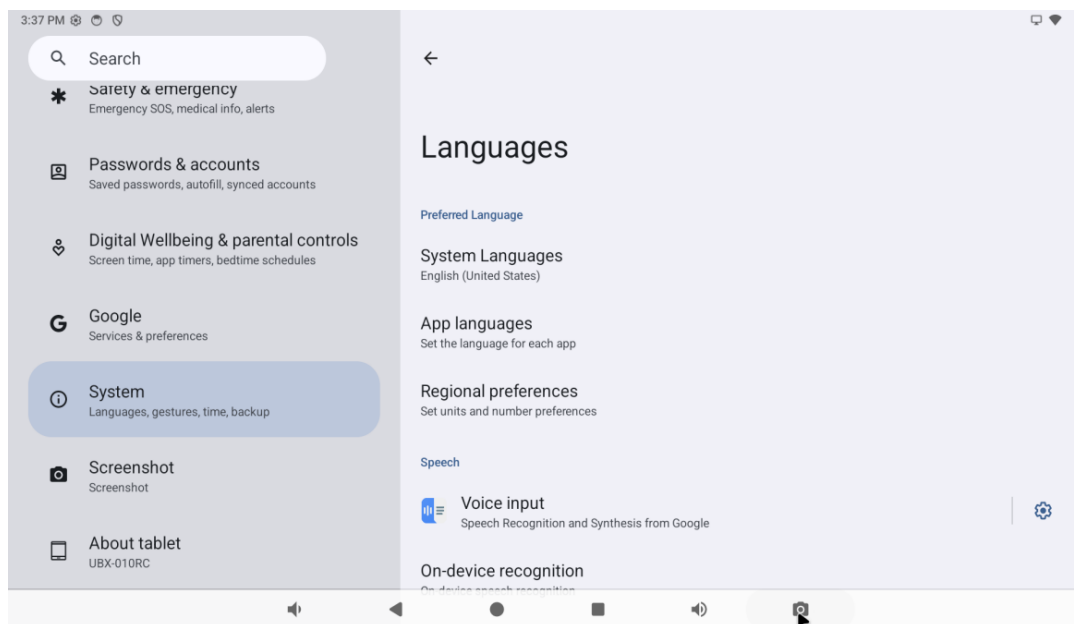


Figure 4.11 System – Languages & Input

■ Date & time

This item displays the current time zone that is set on this device and allows you to adjust the time zone.

Please note that the option to update the time zone via a mobile network is not functional, as Android and the UBX-010RC do not have mobile network support.

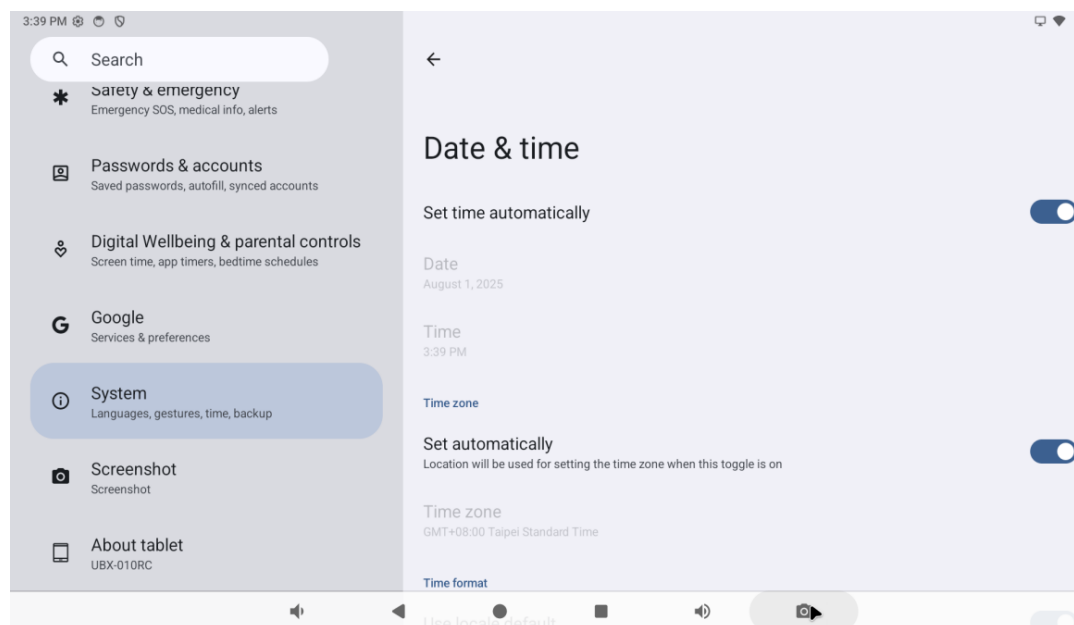


Figure 4.12 System – Date & Time

■ Reset options

This item allows wiping the device via a factory reset. Details are described in section [5.6 Factory Reset](#).

Chapter 5

Advanced

5.1 WLAN Roaming

Note! *It is mandatory to perform proper configuration of the WLAN parameters under Android to achieve comparable roaming performance to UBX-010RC.*



To configure WLAN roaming parameters, follow the instructions below:

1. Go to settings Network & Internet -> Wi-Fi.
2. Select the target network that the UBX-010RC will be operated in (Advantech-GUEST in this example).

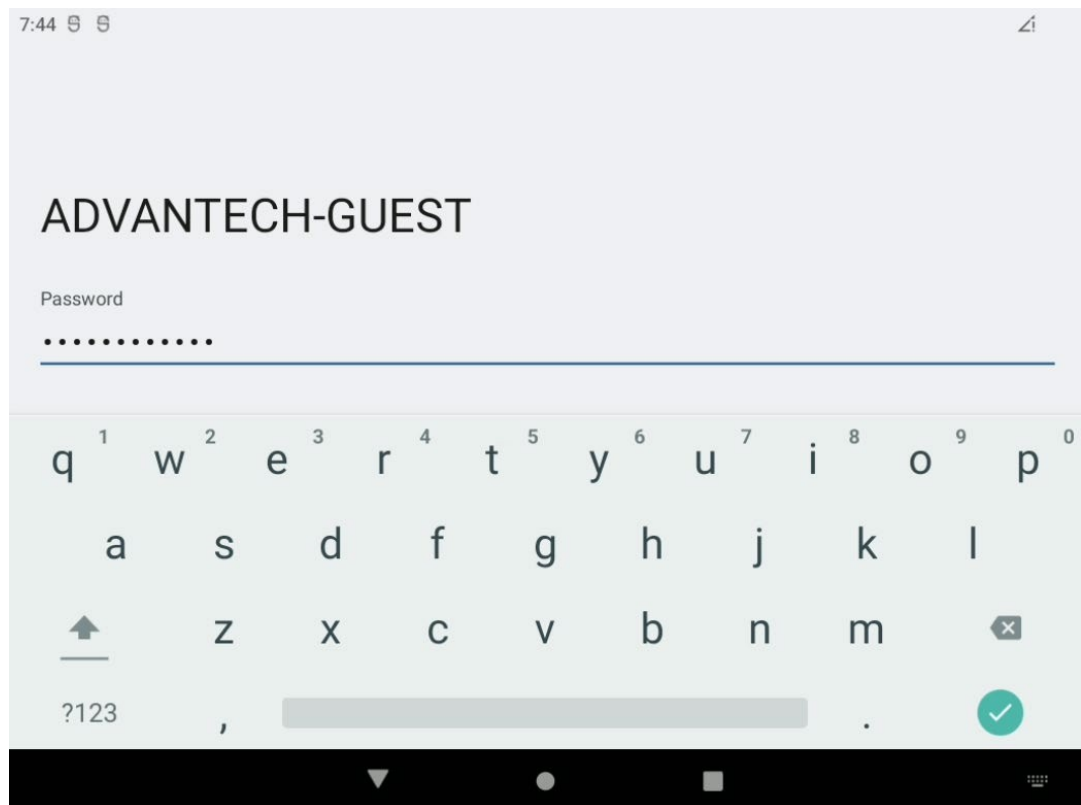


Figure 5.1 WLAN Settings Network Selection

3. Enter required **Password** followed by **Return** key.

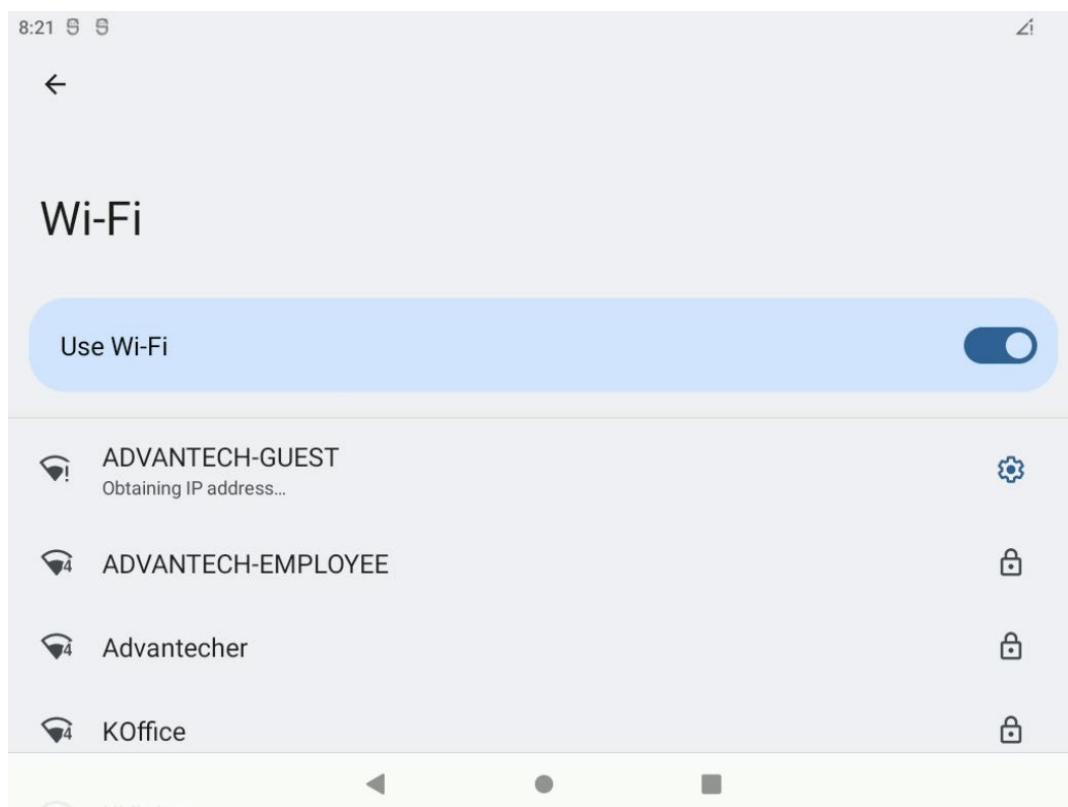


Figure 5.2 WLAN Profile Connection Status

4. To modify or delete the WLAN profile click at icon: 

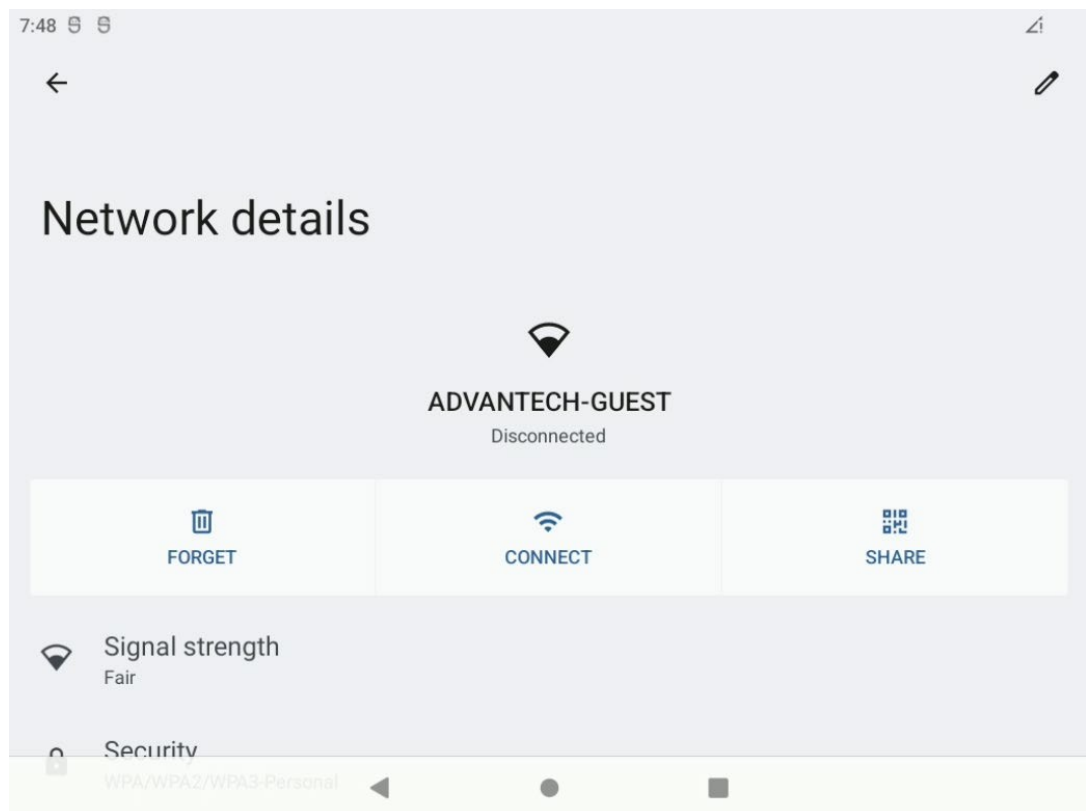


Figure 5.3 WLAN Profile Network Details

5. Password can be modified by clicking at icon: 
6. To delete a profile made before use icon:  **FORGET**

5.2 Ethernet Settings

To configure Ethernet parameters, follow the instructions below:

Note! *By default, Ethernet is configured to DHCP. Ethernet settings dialog is being used to set static IP address configuration including Gateway and DNS server.*



1. Go to settings Network & internet -> **Ethernet**.
2. Use **Ethernet IP mode** to switch between **static** and **DHCP**. By activating **static** all other fields (IP address, netmask, etc.) getting active as shown below.

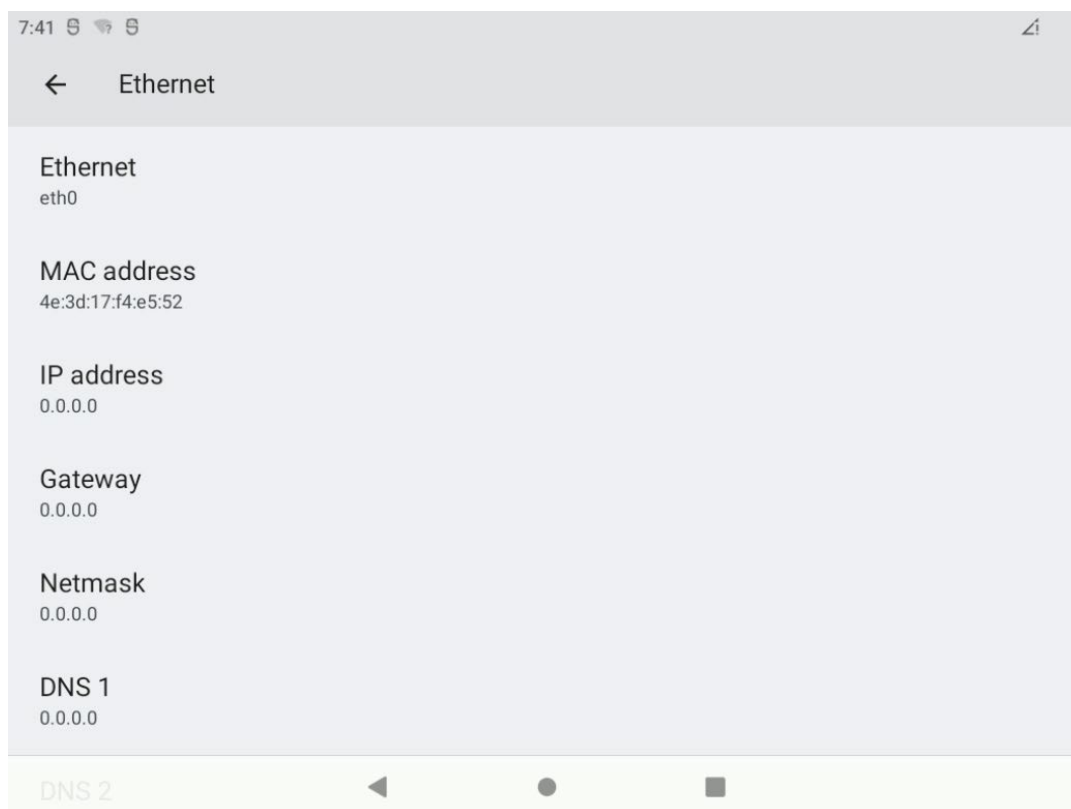


Figure 5.4 Ethernet Settings

3. Individual fields can be clicked to be updated.



The screenshot shows a light gray dialog box titled "Ethernet". It contains five text input fields, each with a label above it and a horizontal line below the text. The fields are: "IP address" with the value "192.168.1.128", "Gateway" with the value "192.168.1.1", "Netmask" with the value "255.255.255.0", "DNS 1 (unless overridden by Private DNS)" with the value "0.0.0.0", and "DNS 2 (unless overridden by Private DNS)" with the value "0.0.0.0". At the bottom right of the dialog box, there are two buttons: "CANCEL" in blue text and "CONNECT" in gray text.

Field	Value
IP address	192.168.1.128
Gateway	192.168.1.1
Netmask	255.255.255.0
DNS 1 (unless overridden by Private DNS)	0.0.0.0
DNS 2 (unless overridden by Private DNS)	0.0.0.0

Figure 5.5 Ethernet Settings – Set IP Address

5.3 USB-Stick (File Transfer)

To use an USB-Stick at Android for file transfer you can follow the next chapter with instructions.

1. Attach an USB-Stick (FAT32 formatted) at UBX-010RC terminal.

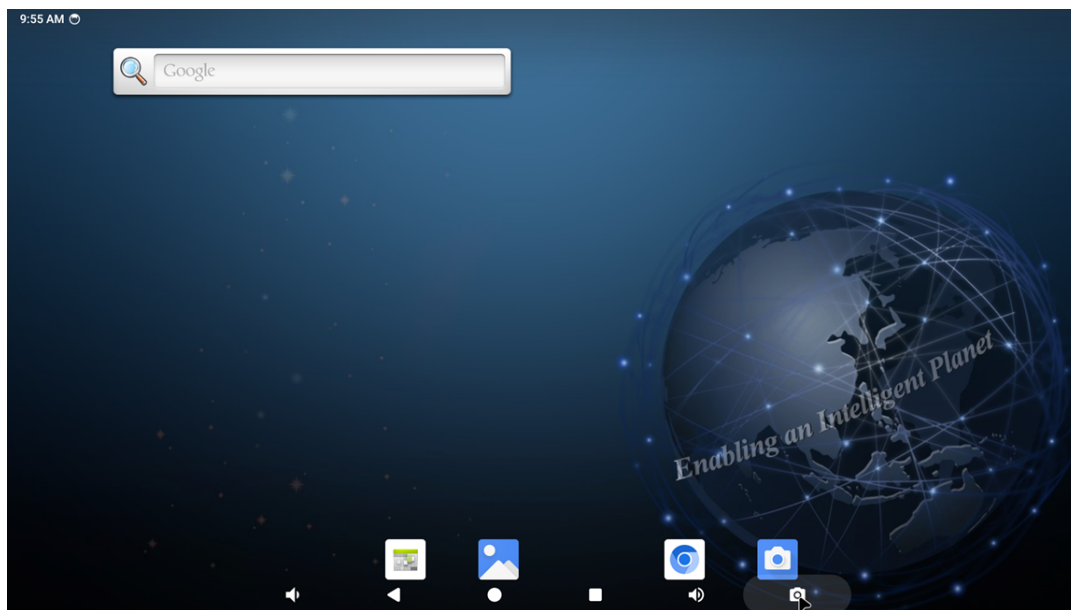


Figure 5.6 Use an USB-Stick at Android for File Transfer

2. At home screen, swipe down notification bar.
3. Select as below shown the **Setup** option beneath the **USB-Stick** list entry to configure the attached USB-Stick.

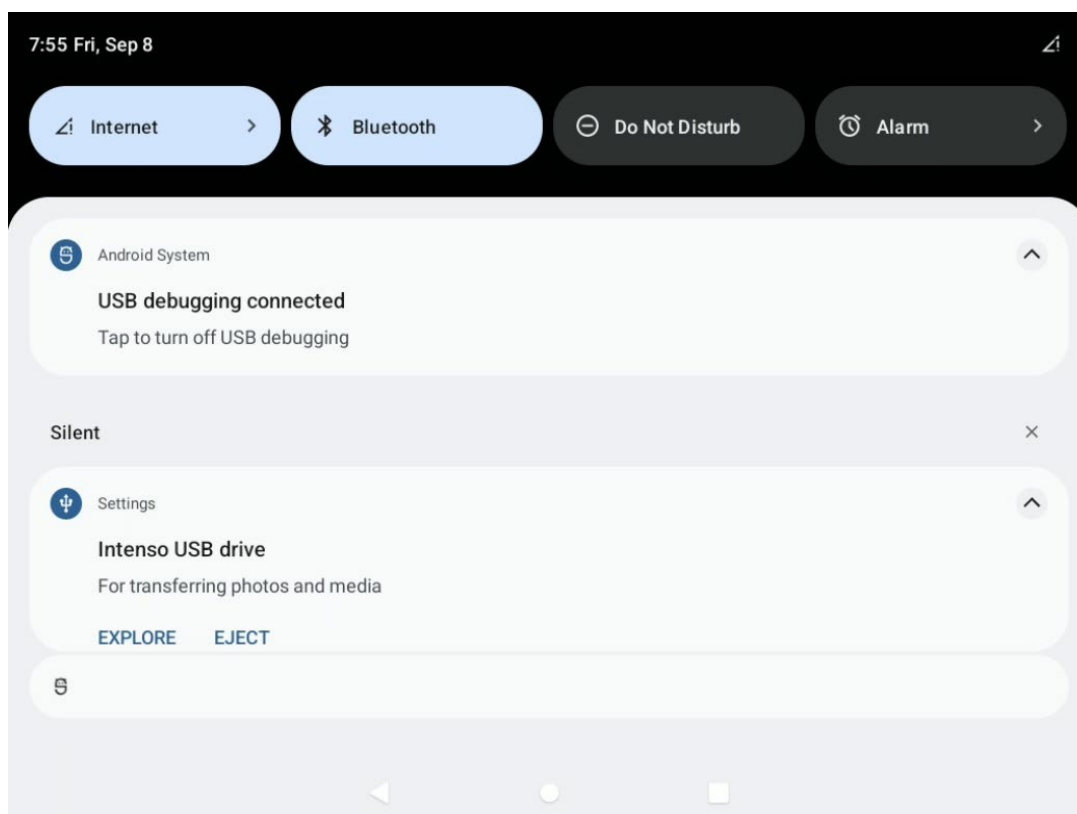


Figure 5.7 Setup Option Beneath the General USB-Stick List Entry

4. Select option **EXPLORE**.

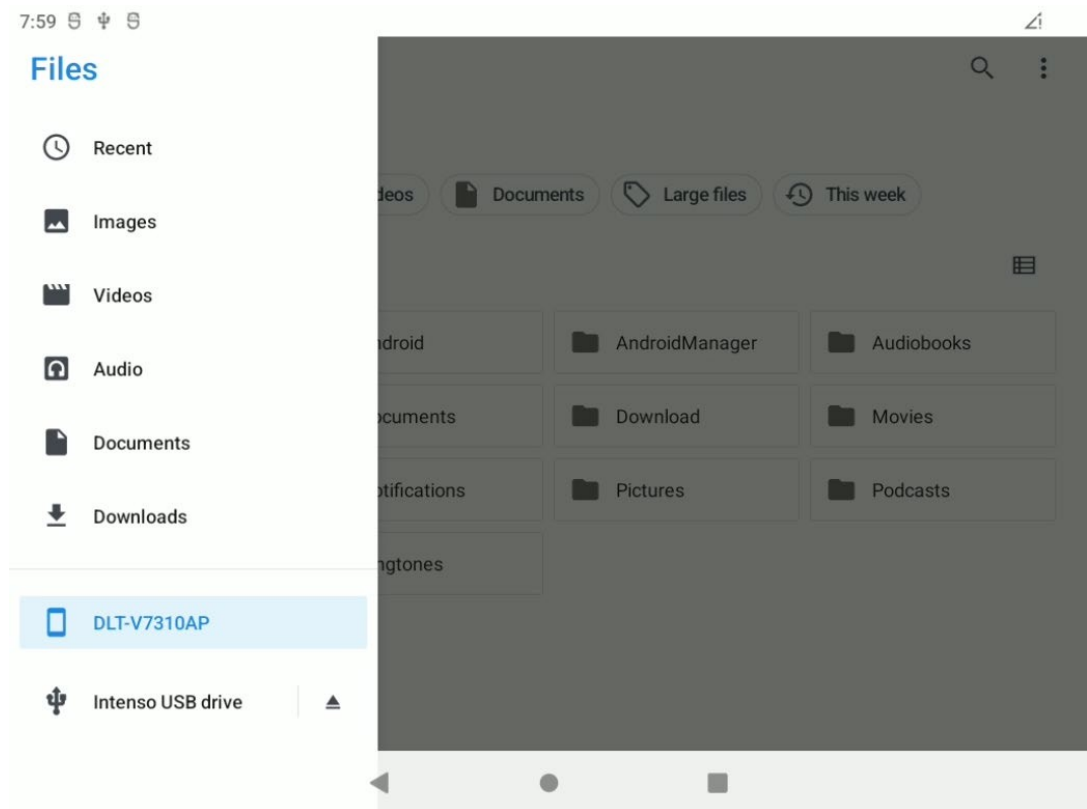


Figure 5.8 Android File Explorer (Internal Storage)

The **UBX-010RC** stands for internal storage.

After clicking at left side on **UBX-010RC** by default the \SDCARD folder content will be displayed.

As shown in the next picture as an example a “log_” file (or more, in case MDevice export was done multiple times before) can be selected.

5. At right corner, select options  and then **Copy to...**

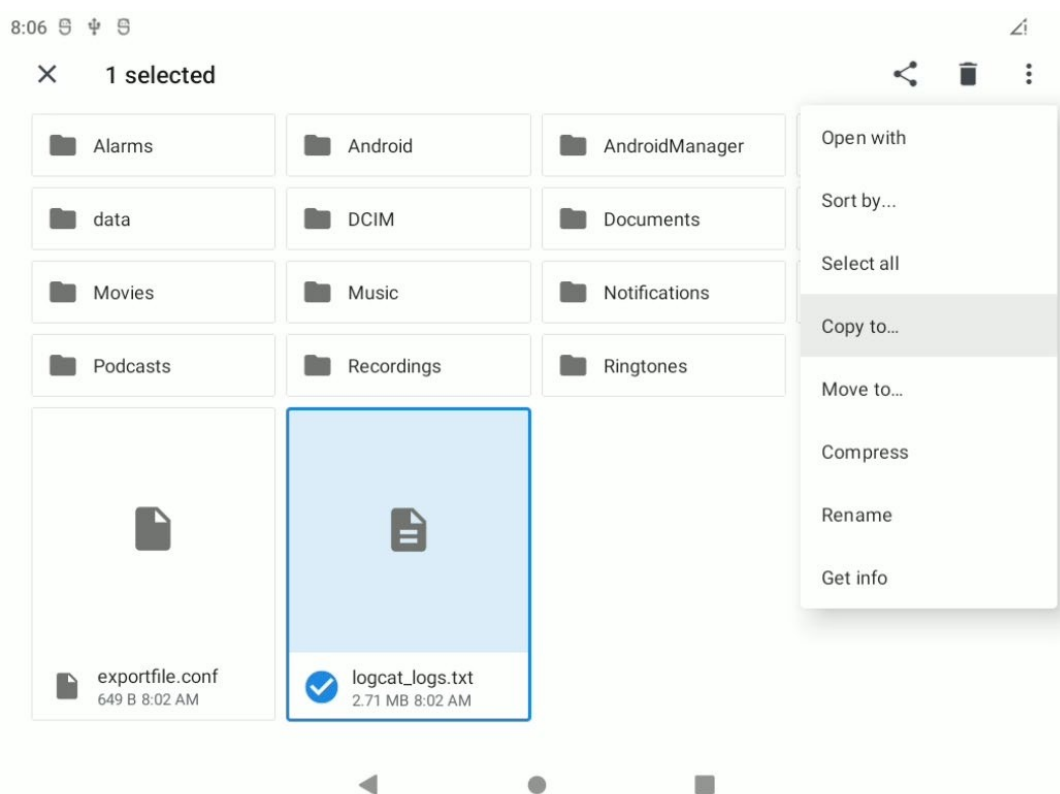


Figure 5.9 Copy Progress from Internal Storage to USB Drive

6. Select **USB drive** and then **COPY**.

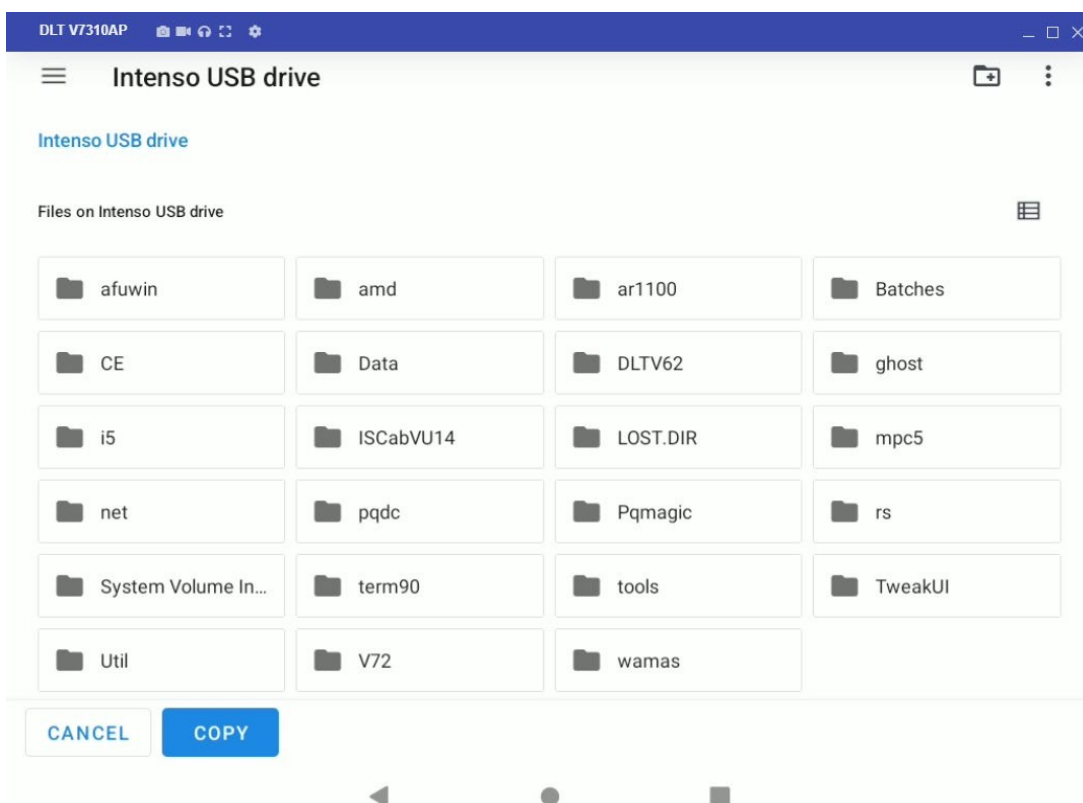


Figure 5.10 USB-Stick (File Transfer) - Paste

The copied log file is now part of USB-Stick content.

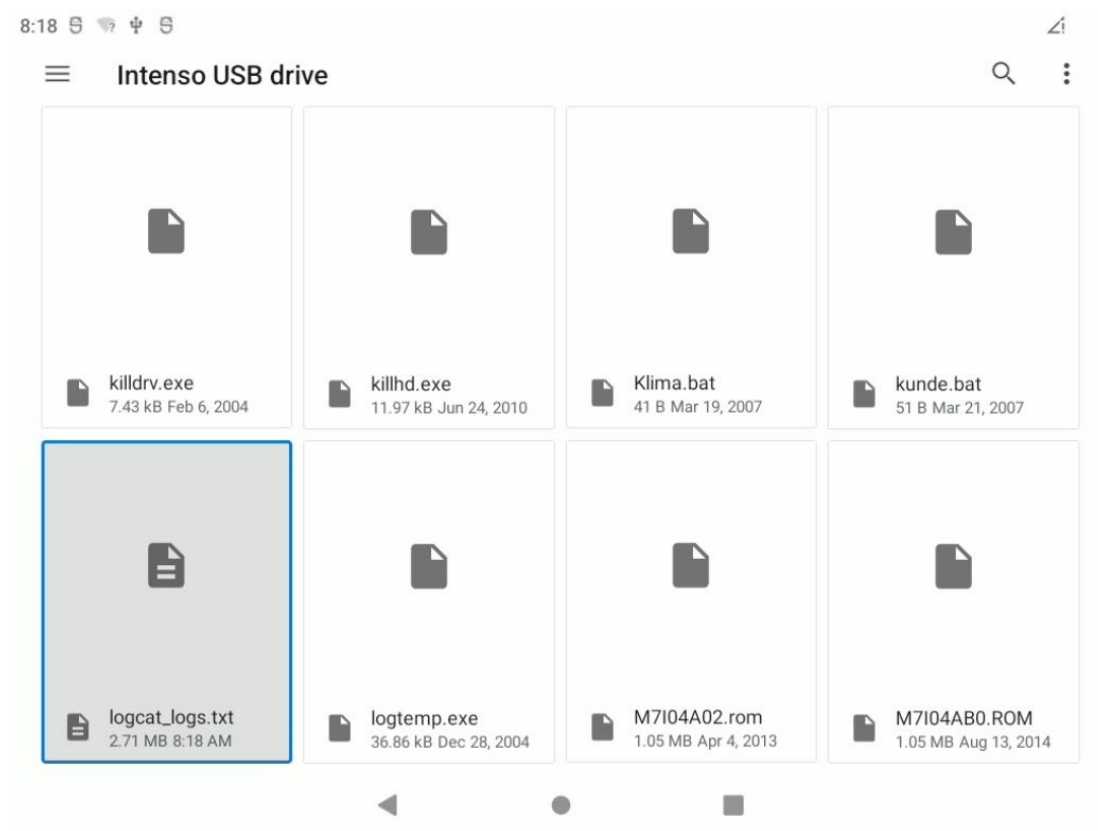


Figure 5.11 USB-Stick (File Transfer) - Copied Log File

7. Close application and press once again at right corner to open USB Settings and Eject as shown in the example picture above the USB-Stick.

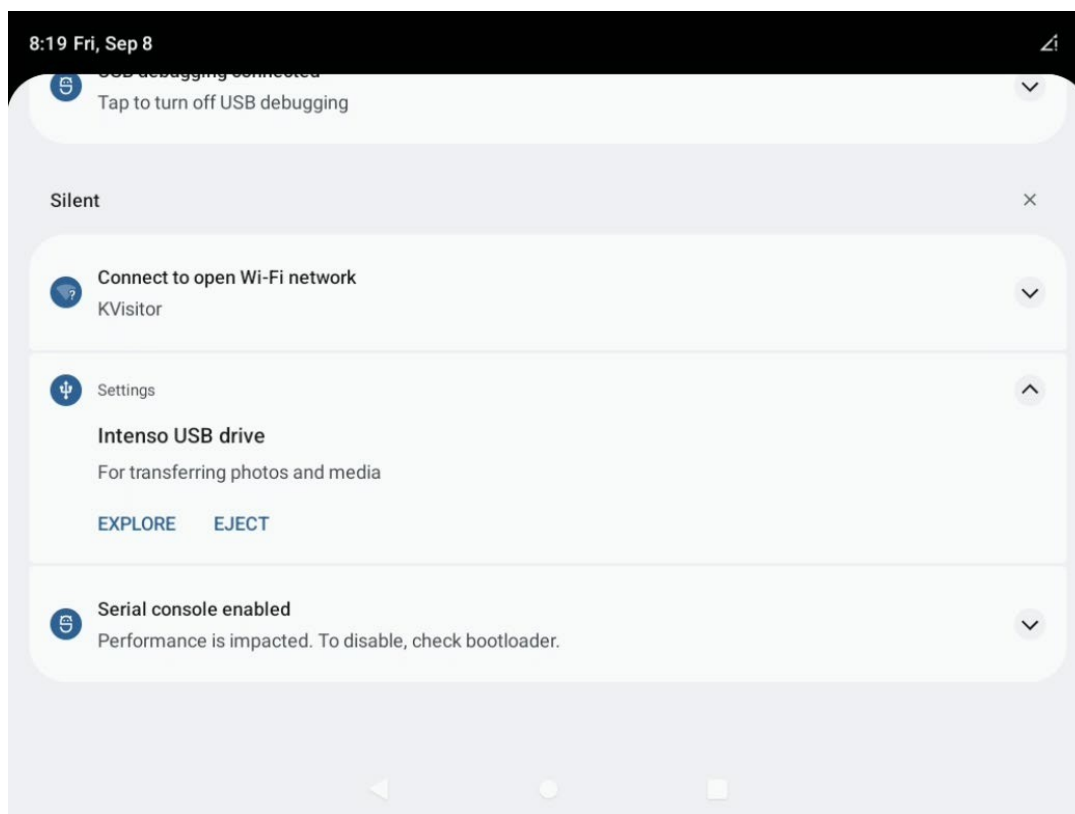


Figure 5.12 USB-Stick (File Transfer) - USB Settings - Eject

8. Afterwards the USB-Stick can be removed from **UBX-010RC** terminal.

5.4 Files Explorer

Files Explorer is used to install applications onto the device without connecting to an app store.

Note! *Due to the security policies integrated with the Security Enhanced Linux Kernel (SEL) underlying Android, USB storage devices have to be enabled on Android before first use. This includes device formatting. To perform the related actions, follow the instructions of the USB storage menu. To access this menu, drag down the notification bar after inserting the USB storage device and click on the USB icon.*



5.4.1 APK Installation

To install applications using **Files Explorer** follow the steps below:

1. Copy the package of the application you wish to install (".apk" format) to a USB storage device.
2. Open **Files Explorer** and click **USB storage** with your APK.
3. Click on ".apk" file to start the installation process.

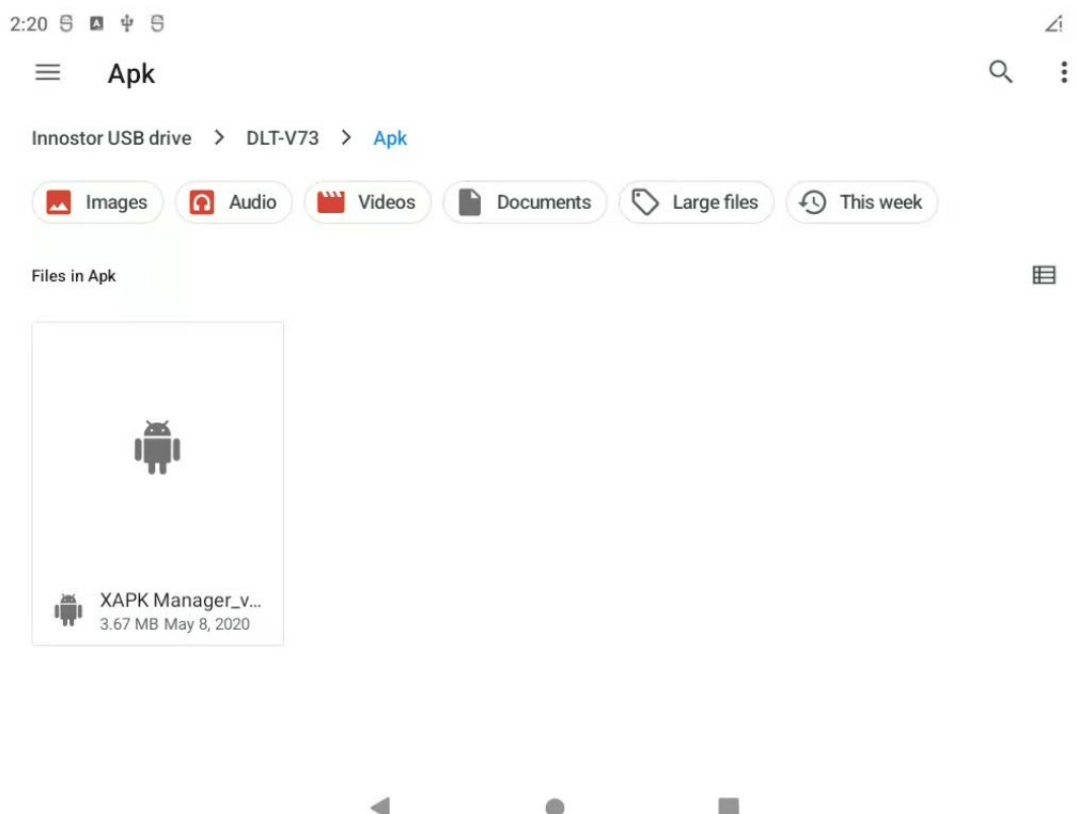


Figure 5.13 Files Explorer

- At request confirm following message with **CONTINUE**.

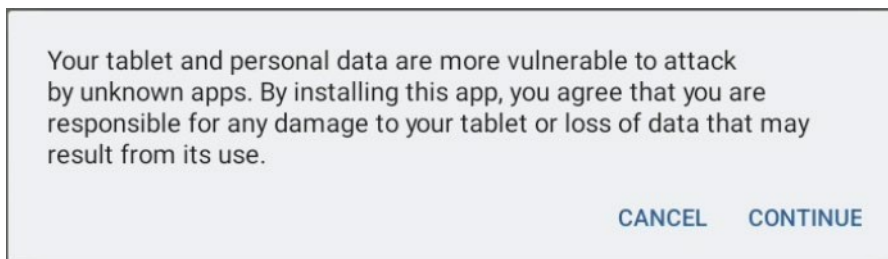


Figure 5.14 Files Explorer

- Continue with button **INSTALL**.

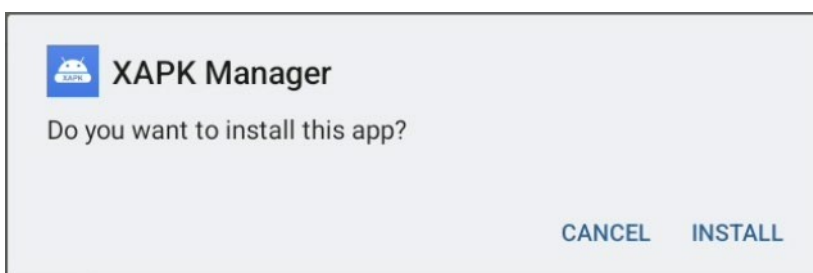


Figure 5.15 Do You Want to Install This app?

- At the end choose between **DONE** or **OPEN** to start newly installed application.

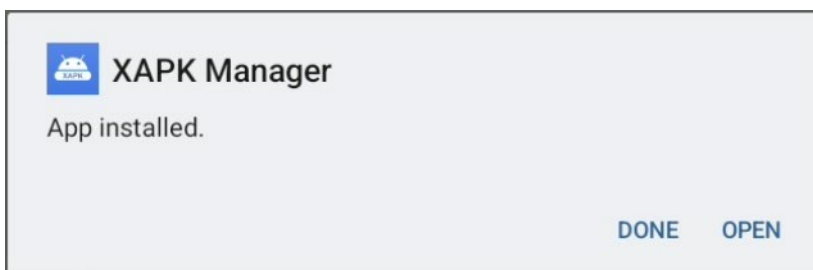


Figure 5.16 XARP Manager – App Installed

5.5 Power off

User can **Power off** the system via the rear side **Power** button.

To **Power off** by long press and hold the **Power** button for around 8 seconds on the rear side power button.

5.6 Factory Reset

User can reset the device configuration via software menu.
To reset the device to factory defaults:

1. Go to **Settings -> System -> Reset options**.

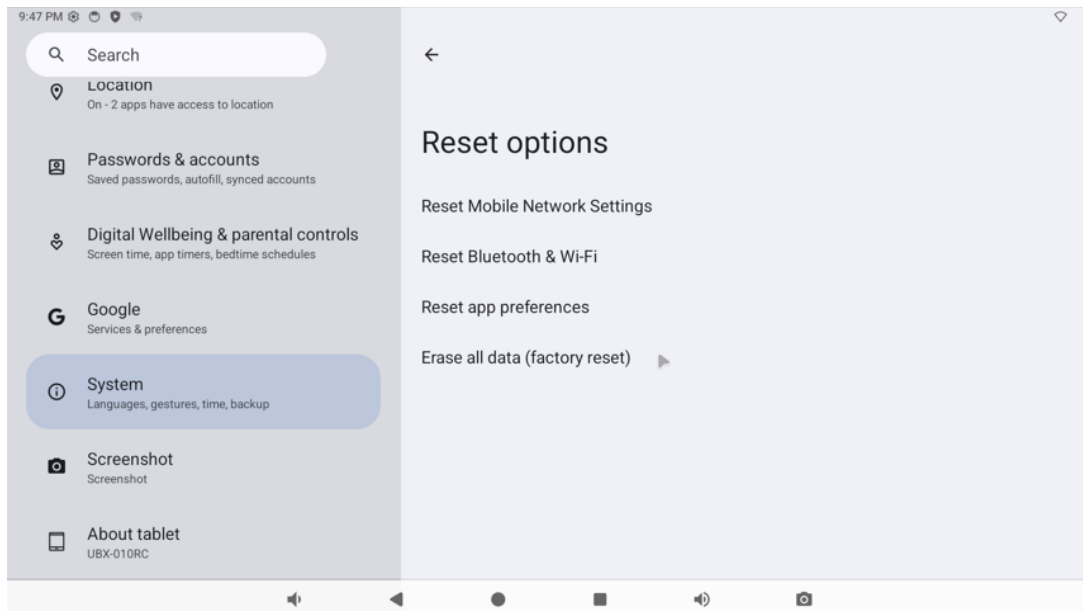


Figure 5.17 Settings Menu – Reset Options

2. Click **Erase all data** (factory reset).
It will erase all data on the UBX-010RC, including Google account, system data, app data and settings, downloaded apps and other user data.

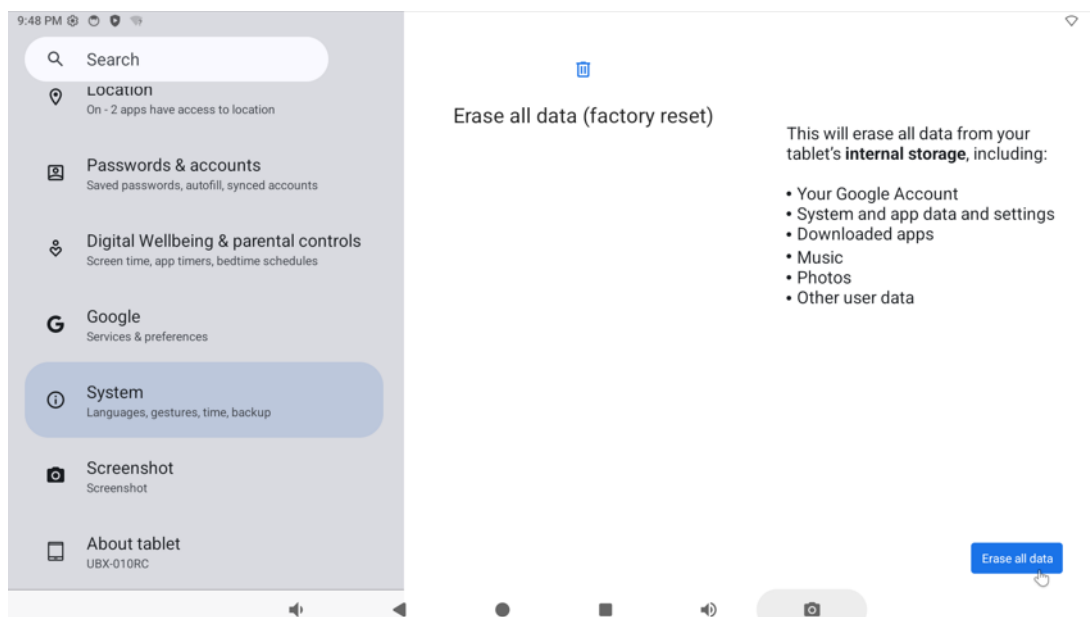


Figure 5.18 Factory Data Reset

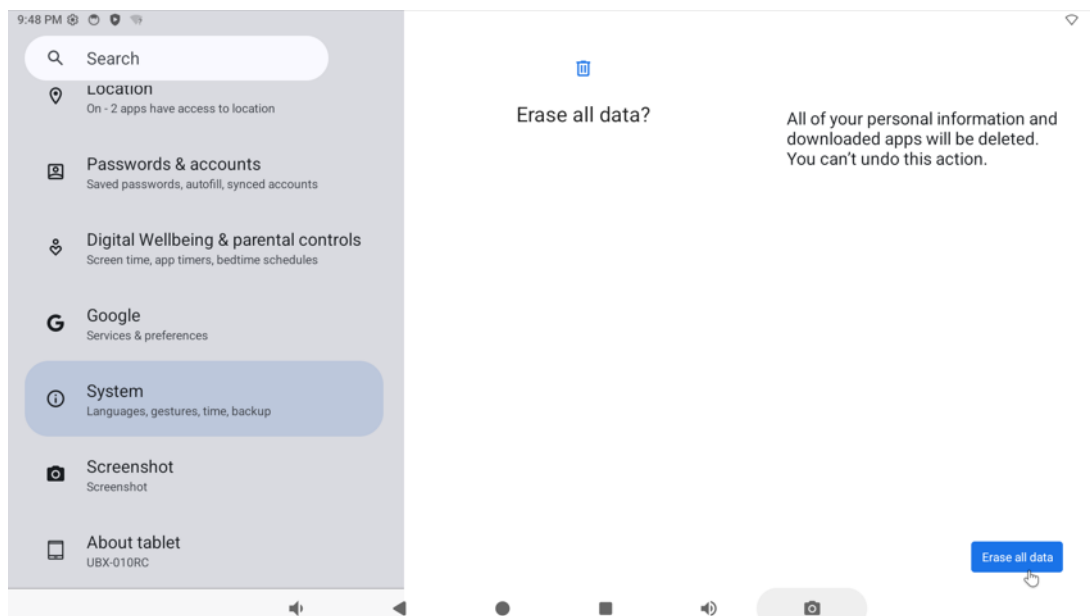


Figure 5.19 Factory Data Reset – Warning Note

Once the factory reset is complete, you will return to the Android home screen again.

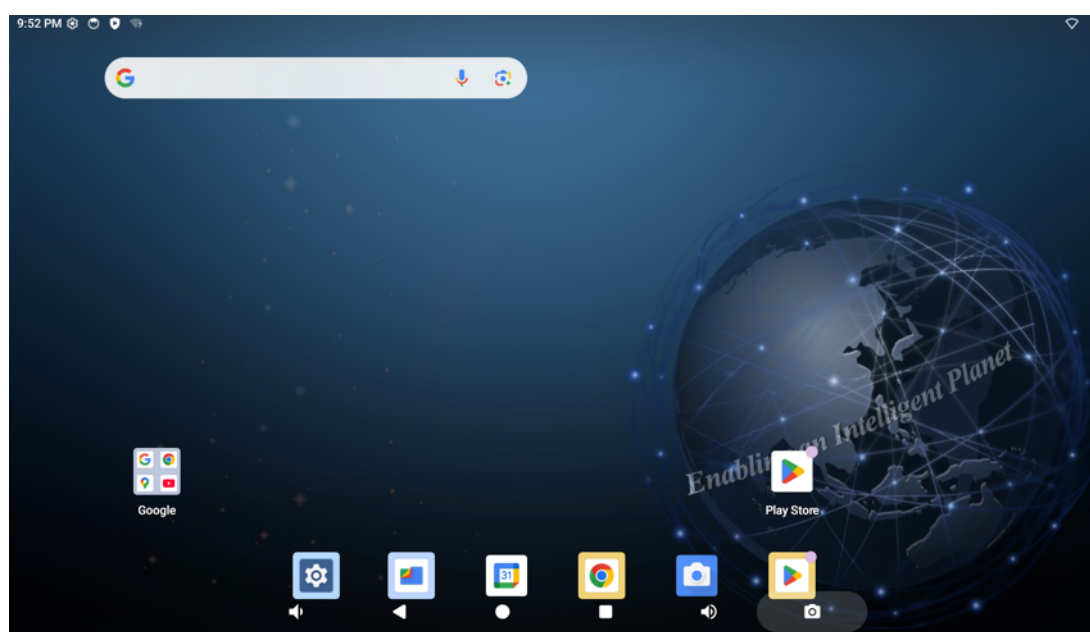


Figure 5.20 Android Home Screen (GMS)

Note! At GMS image version Google Welcome Wizard will be shown instead.



5.7 Multiple Users

Android is supporting multiple user profiles on the same device. Administrators can use this feature in Native Mode to set up distinct profiles for operators and normal users. Follow the steps below to add new user.

Add a new user profile in **Settings -> System -> Multiple Users**.

1. Click the **Add user** item.

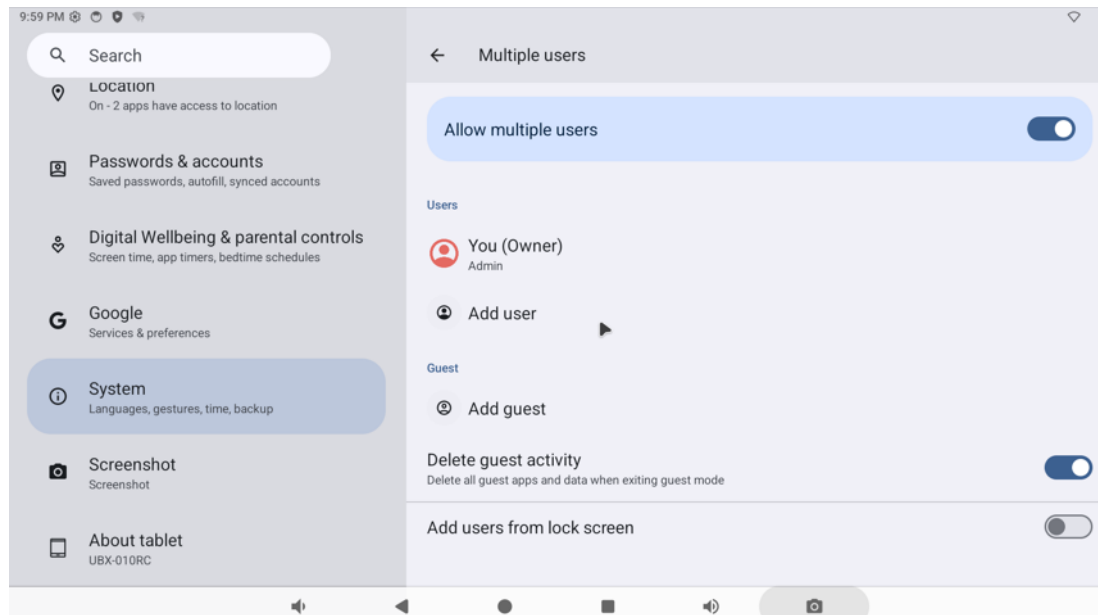


Figure 5.21 Settings – Users Menu

2. Choose **Next**.

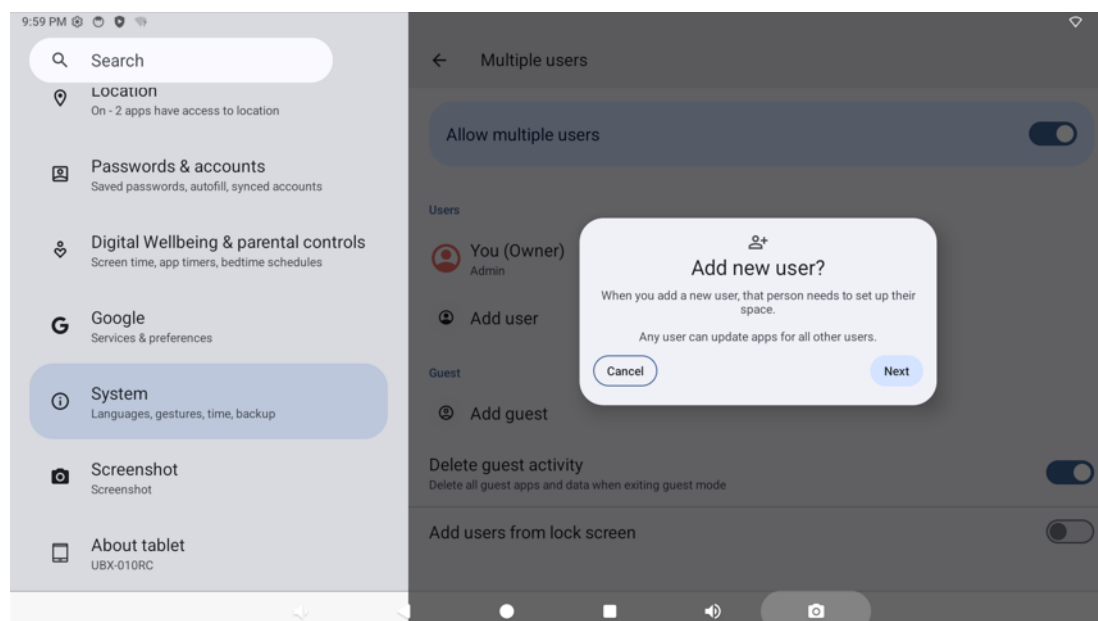


Figure 5.22 Settings – Users Menu – Add New User Confirmation Request

3. Enter a name for the new user and continue with **OK**.

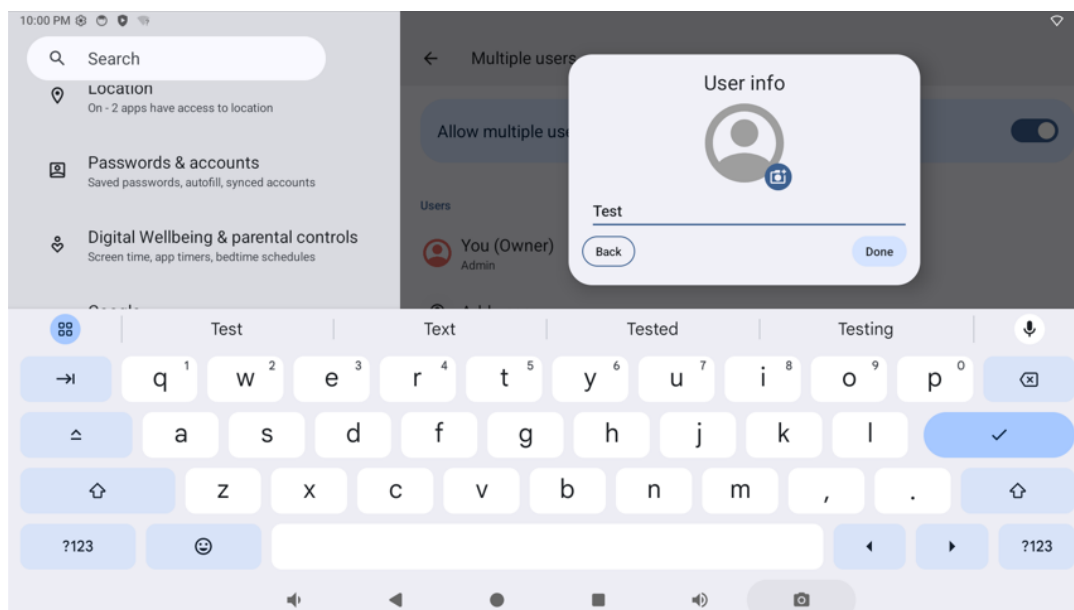


Figure 5.23 Settings – Users Menu – Set Name of New User

A new user is created.

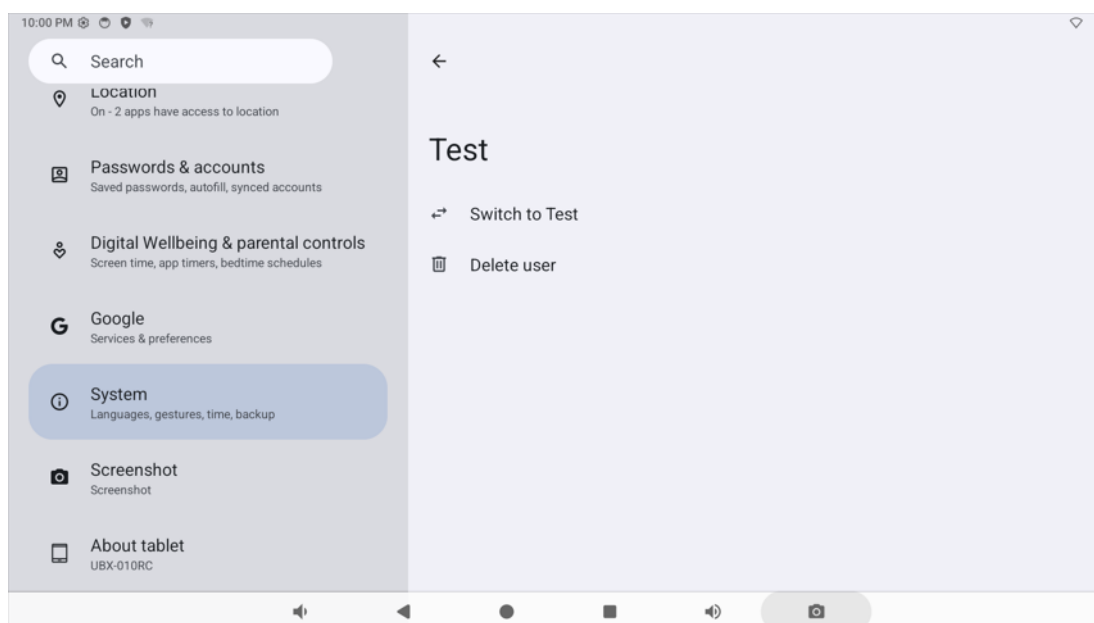


Figure 5.24 Settings – Users Menu – Switch to Newly Created User

With option **Switch to test** the new user can be enabled.

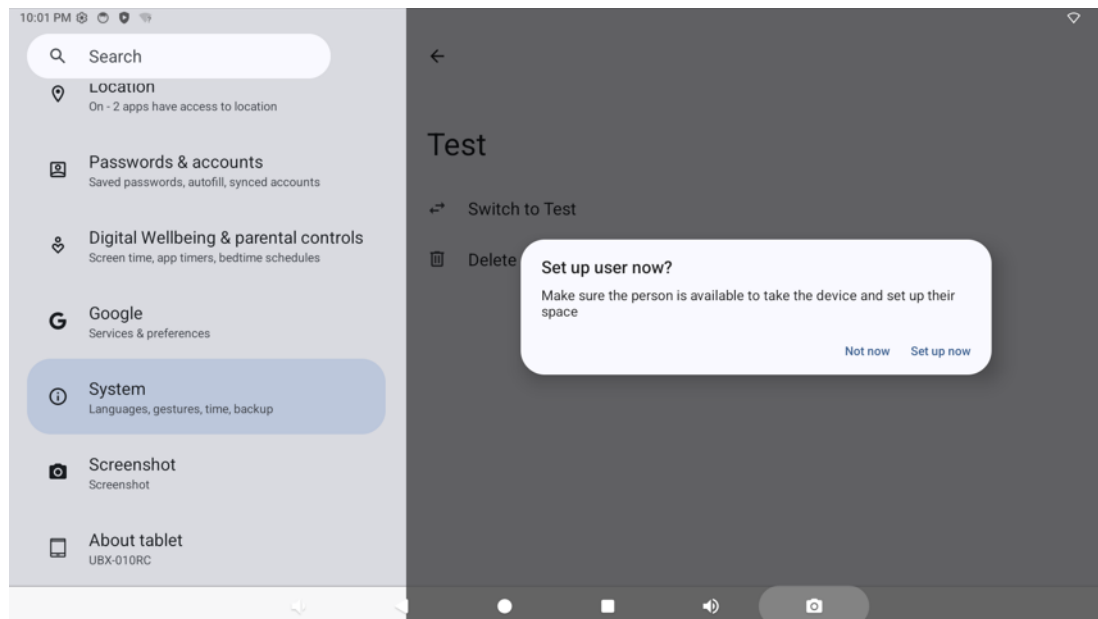


Figure 5.25 Settings – Request Set up User Now?

At request continue with **SET UP NOW**.

1. Pull down the function menu from the top of the screen.

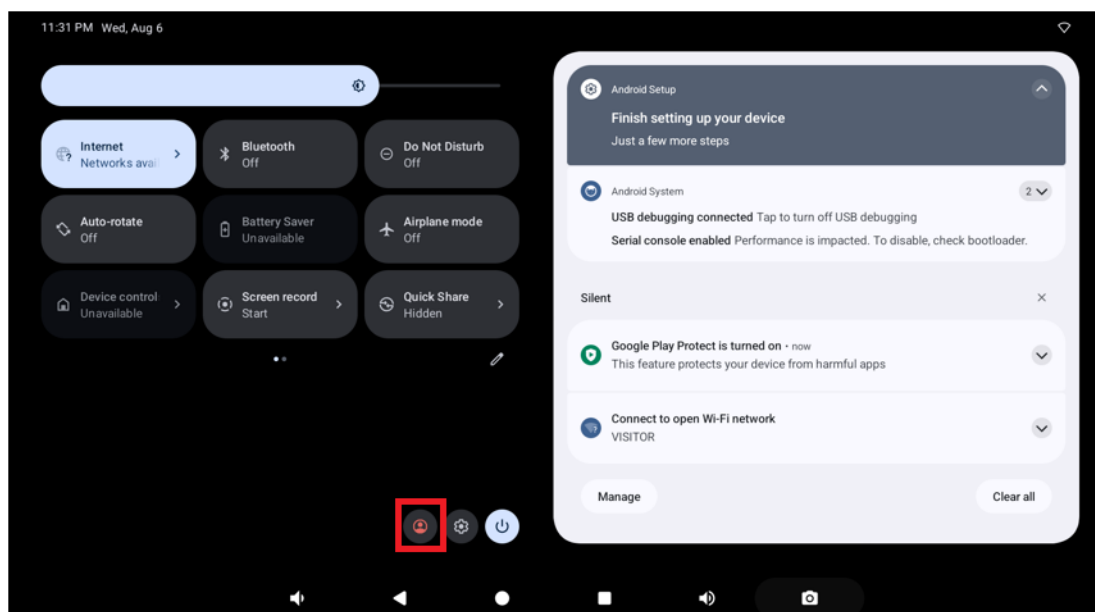


Figure 5.26 Multi-user Switching Selection

2. Choose a different user to login.

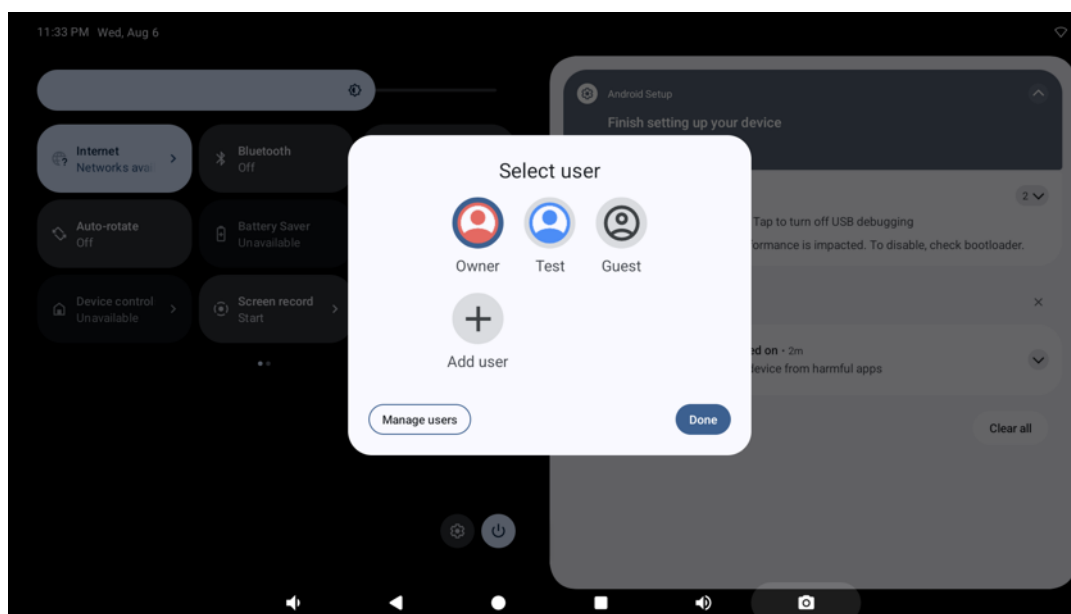


Figure 5.27 Lock Screen with Multiple User Option

5.8 ADB over USB (Type-C)

Note! Prevent system malfunction.



The use of ADB requires in-depth knowledge of the Android system. It's only intended to be used by Android experts for advanced troubleshooting and maintenance. Advantech Co., Ltd. expressly disclaims any warranty or liability related to the use of ADB.

Android supports ADB over USB (Type-C).

PC that gets connected to UBX-010RC industrial terminal required to have ADB utilities installed either Windows or Linux version.

An USB-A to Type-C connector cable is required to setup connection between PC and UBX-010RC terminal.

Please make sure to connect the USB (Type-C) cable between your PC and the UBX-010RC terminal BEFORE switching on the unit. This will set the required (function mode) for ADB connection automatically.

About security reason this feature is by default disabled and needs to be activated by user in case required.

1. USB-C connect to UBX-010RC terminal.



Figure 5.28 USB-C Connector

2. Connect the USB-A to Type-C connector cable between PC and UBX-010RC.



Figure 5.29 USB Cable Connected to Port

3. Switch on the UBX-010RC or perform a system reboot.
4. Change to **Settings** -> **About tablet**.

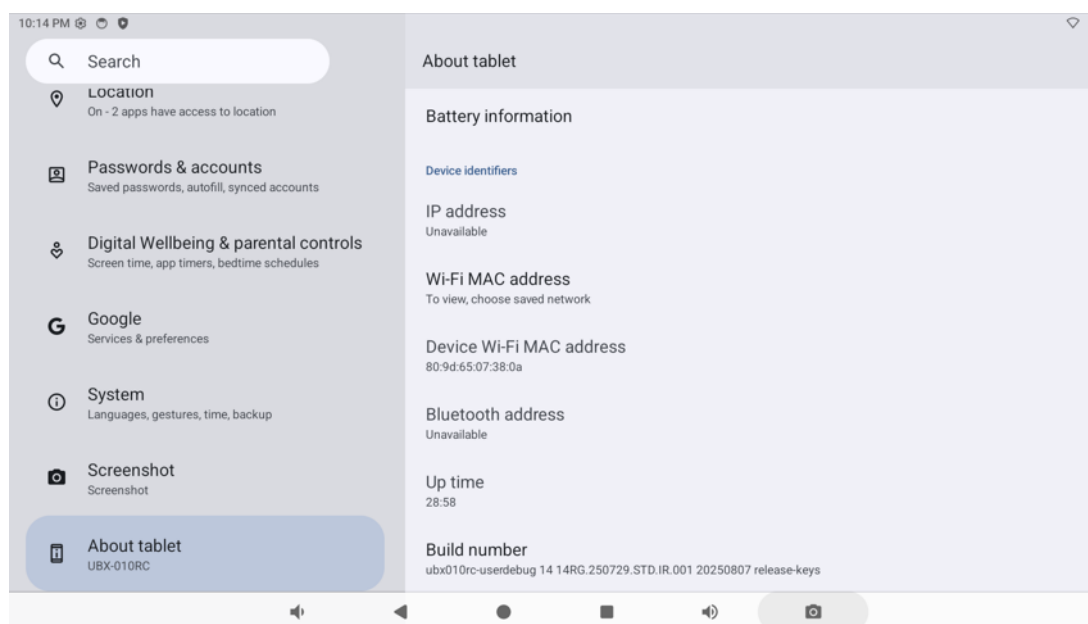


Figure 5.30 Settings – About Tablet

5. Scroll down to see the **Build number**.
6. Press multiple times using the touch at **Build number** until the text “**You are now a developer!**” appears. You must, at least, press seven times.

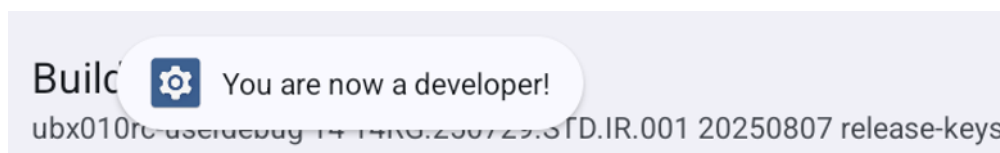


Figure 5.31 Build Number – System Message Pop-up

7. Change back to **Settings** -> **System**.
8. Click now at enabled option **Developer options**.

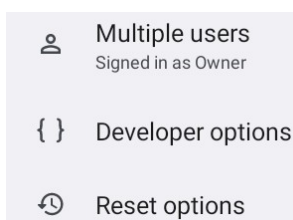


Figure 5.32 Settings – System – Reset Options

9. Scroll down to option **USB Debugging** and enable it.

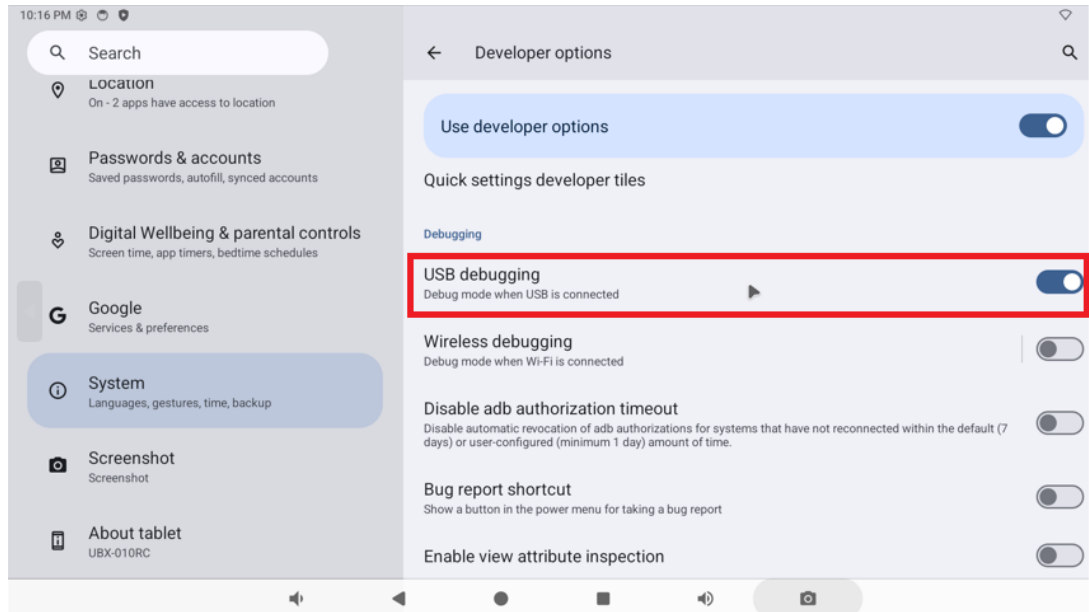


Figure 5.33 User Message – Allow USB Debugging

10. At request, enable checkbox and continue with **OK**.

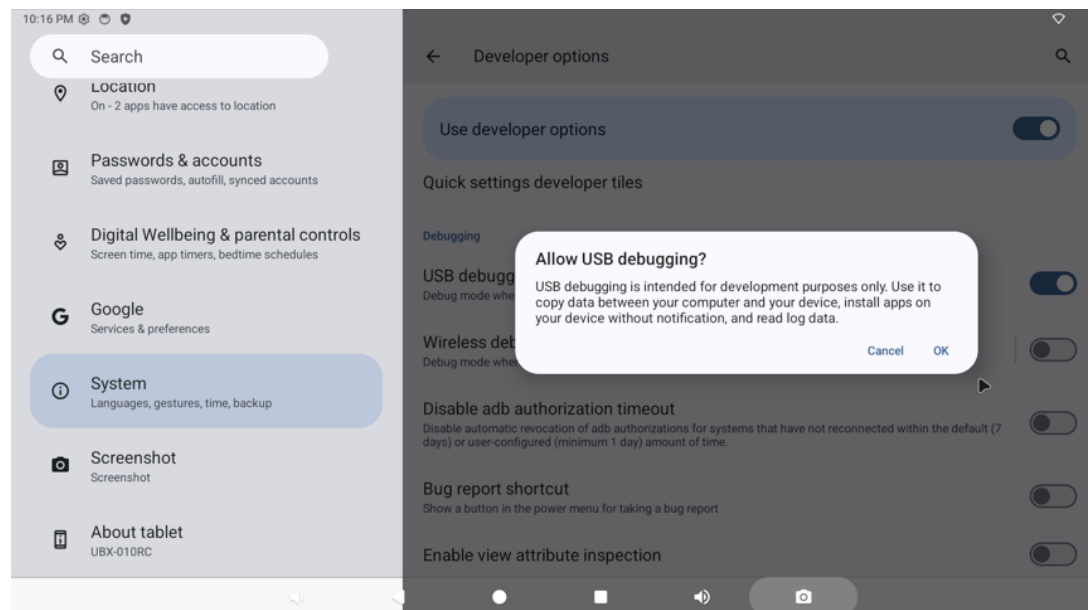


Figure 5.34 User Message – Always Allow from This Computer

5.9 ADB Commands

After enabling the ADB Connection described in chapter 5.9 *ADB over USB (Type-C)* standard ADB commands can be executed at UBX-010RC.

Note! *PC that gets connected to UBX-010RC industrial terminal required to have ADB utilities installed either Windows or Linux version.*



Each Linux distribution has own way to install the Android ADB utilities so please check vendor.

Refer the link <http://developer.android.com/tools/help/adb.html> for more ADB commands.

5.9.1 Open/Close ADB Connection

To open/close an ADB connection from PC side with installed ADB utilities.

Open → **Input the command on Windows/ Linux PC to connect target device**

```
$ adb shell
```

Close → **Exit and disconnect**

```
$ exit
```

5.9.2 Screen Capture Using ADB

It is used to create to capture screenshots of Android.

Capture → **screen and save to local UBX-010RC storage.**

```
$ adb shell screencap -p /sdcard/pic1.png
```

Copy → **the picture to PC**

```
$ adb pull /sdcard/pic1.png
```

```
Administrator: Command Prompt
D:\android>adb shell screencap -p /sdcard/pic1.png
D:\android>adb pull /sdcard/pic1.png
/sdcard/pic1.png: 1 file pulled, 0 ... 19.5 MB/s (292536 bytes in 0.014s)
D:\android>
```

Figure 5.35 Capture Screen with ADB (Windows OS)

5.9.3 Upload Files Using ADB

To upload files.

Copy → a file to the UBX-010RC terminal

```
$ adb push test.png /sdcard/test.png
```

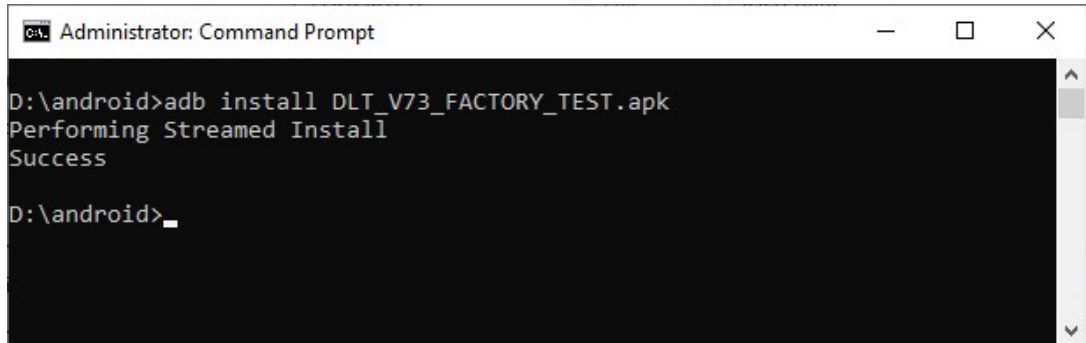


Figure 5.36 Upload Files with ADB (Windows OS)

5.9.4 Install apk Files

To install new applications.

Remote install → an application (.apk) file to the UBX-010RC terminal

```
$ adb install DLT_V73_FACTORY_TEST.apk
```

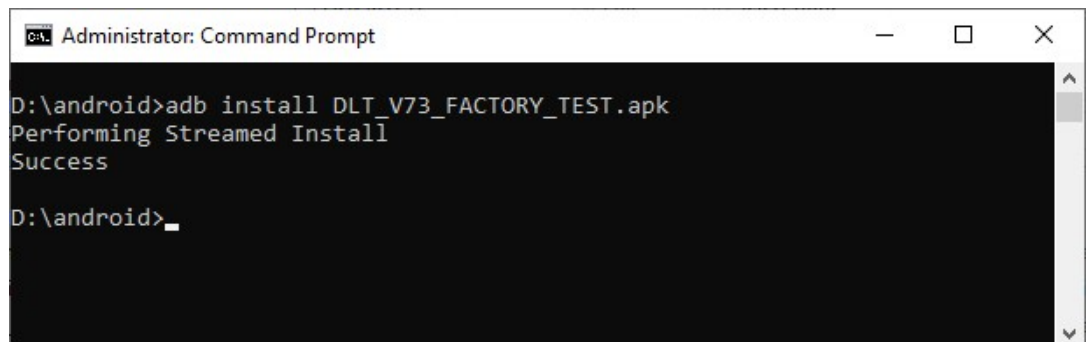


Figure 5.37 Install apk Files with ADB (Windows OS)

Chapter 6

GOTA Update

6.1 Functional Description

GOTA (Google OTA) requirements:

- UBX-010RC with installed **GMS image** (Android **AOSP** image **is not supported!**)
- The USC-115RC needs access to internet-based Google OTA update server

Note! *OTA updates are designed to upgrade the underlying operating system including the read-only apps installed on the system partition; these updates do not affect user and app data installed by the user.*



Starting with Android 14 OS support at UBX-010RC there is currently one type of GOTA update possible to use:

“Full” → Major build of a standard Android 14 image release for UBX-010RC

6.2 GOTA Update is Available

There are two ways to apply GOTA updates at Android 14 for UBX-010RC.

6.2.1 Way1: Apply GOTA Update via Update Icon

On the left of the screen a symbol of update availability will be showed.

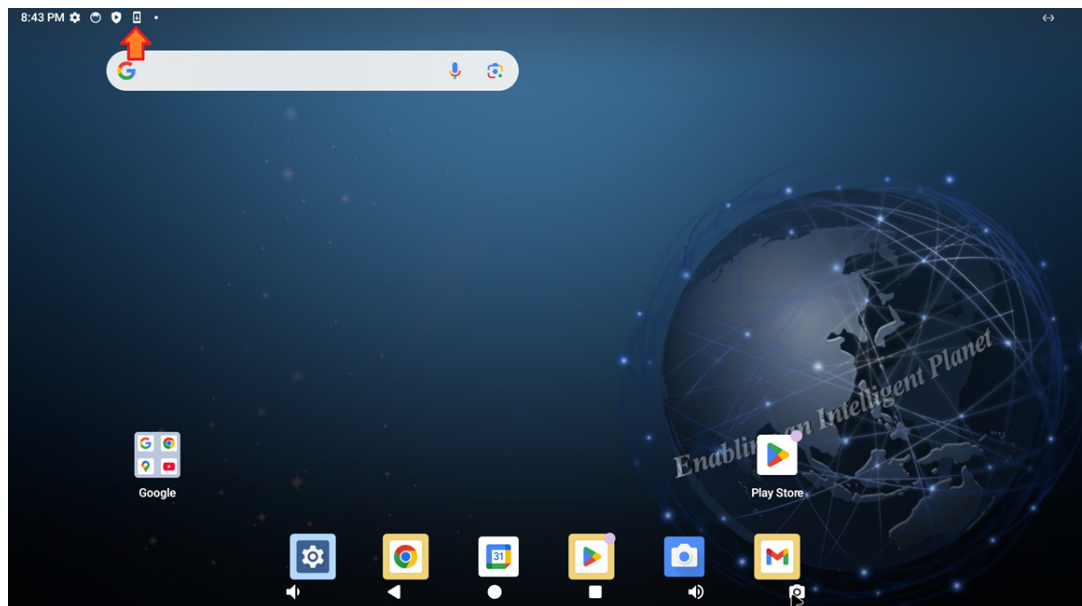


Figure 6.1 Notification of Update Availability

1. Perform a swipe down to open notification screen.
2. Scroll down the screen and see the notification in the window: **New system software available**.

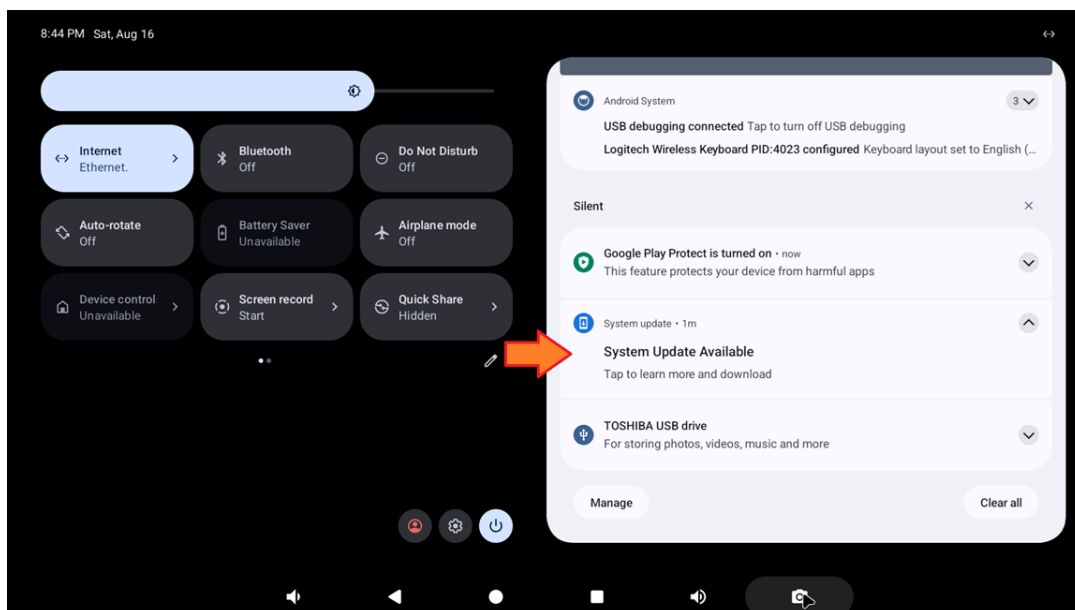


Figure 6.2 New System Software Available

3. Click on New System Software available.
Continue with section [6.3 Perform GOTA update](#).

6.2.2 Way2: Apply GOTA Update via Settings

1. Scroll down the home screen, go to **Settings** and click on that.

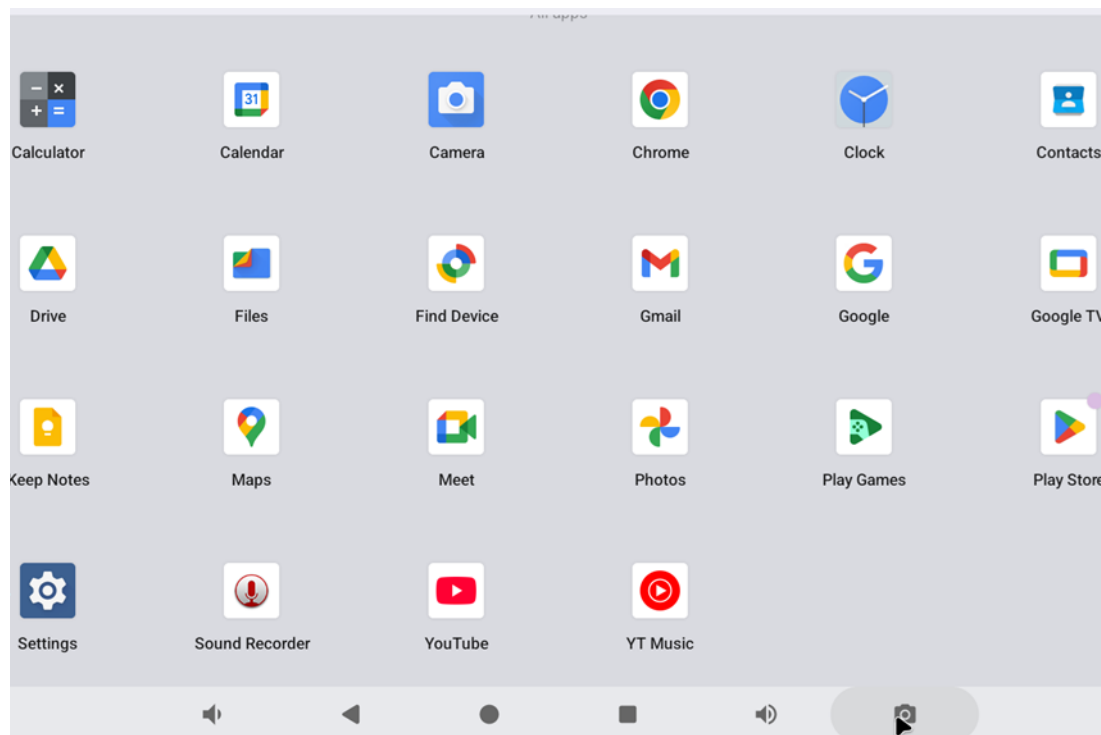


Figure 6.3 Apps Screen - Settings

2. Once, you are in **Settings**, scroll down until you find **System** and click on **System**.

Continue with section [6.3 Perform GOTA update](#).

6.3 Perform GOTA Update

This page shows information about available new version to be installed.

1. Click on Download and Install.

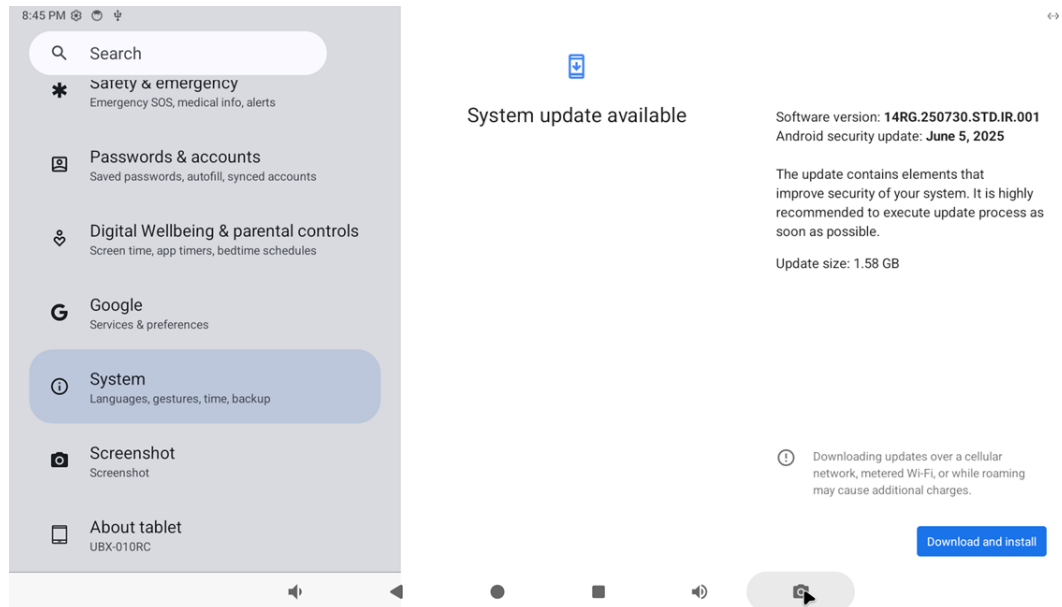


Figure 6.4 New Version Information

2. Once you click, please wait until download has been finished.

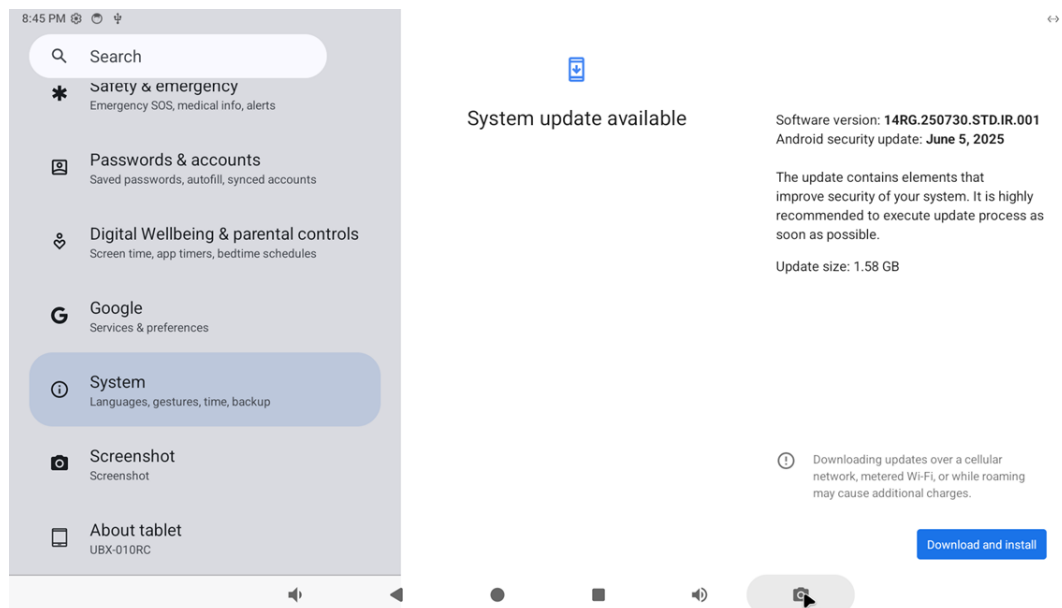


Figure 6.5 System Update Download in Progress

- After the download completed, the installation of new image will be started automatically.

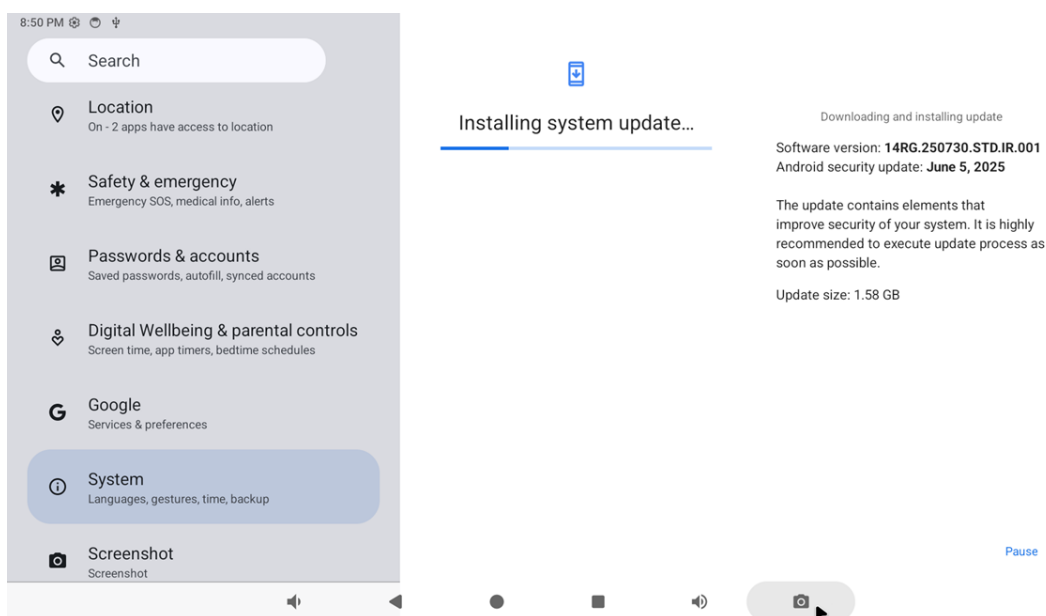


Figure 6.6 Installation System Update

Note! *The progress bar will update multiple times during process and the whole process will take about 10 minutes to complete.*



Please don't interrupt the installation process and don't switch off the terminal in between! ? can lead into non-booting device condition!

- After installation done click **Restart now**.

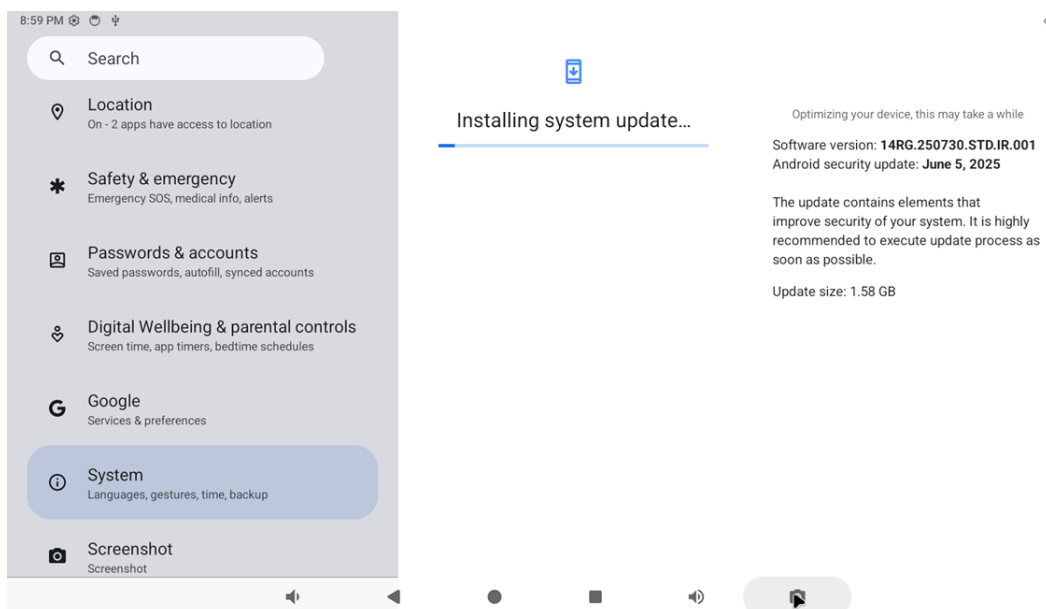


Figure 6.7 System Update Done – Restart Now

6.4 GOTA Problem Solving

6.4.1 Network Connection not Available (Before GOTA Update)

Note! *If the network connection is not available or does not respond on download request the following message will be shown.*

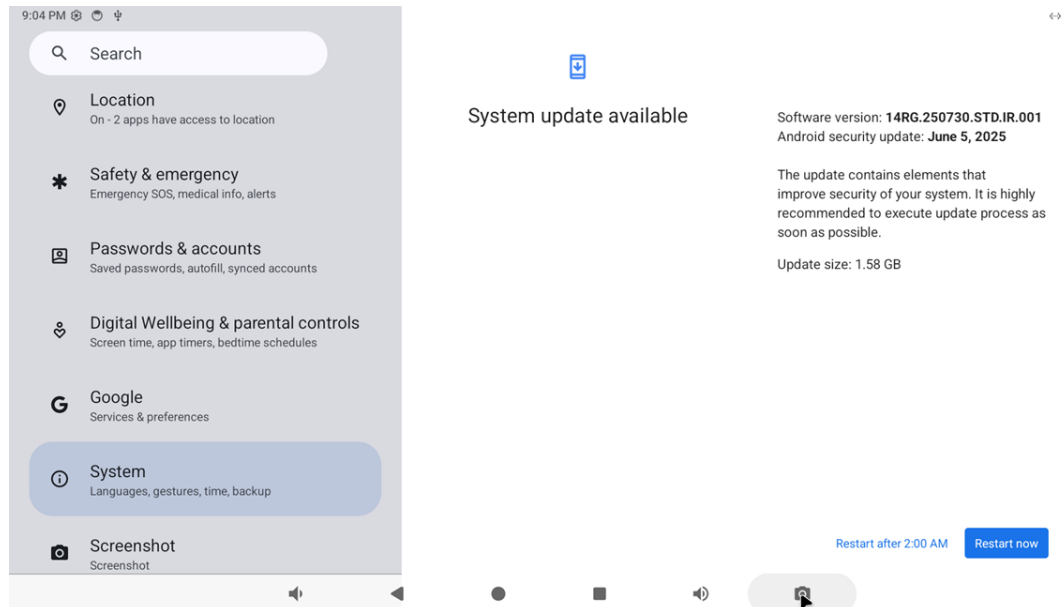


Figure 6.8 Network Connection not Available (Before GOTA Update)

In this case, please check network connection and try again.

6.4.2 Network Connection Lost (During GOTA Update)

Note! *If the network connection gets lost or is not responding during GOTA installation the following message will be shown.*

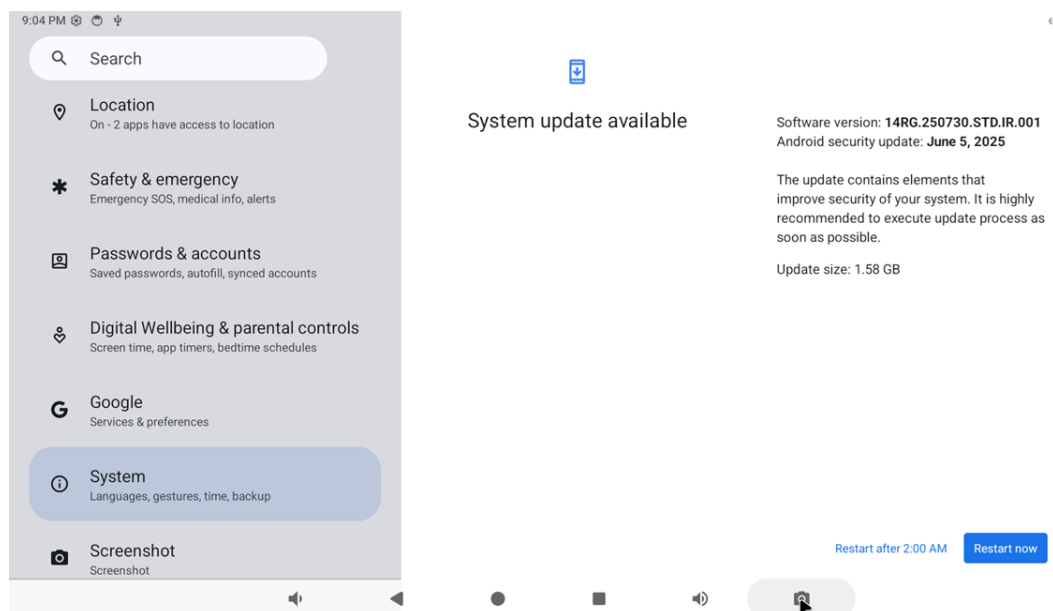


Figure 6.9 Network Connection Lost (During GOTA Update)

Check network connection and click **Retry download** to continue with GOTA image installation. Text will change back to **Installing system update**.

6.4.3 GOTA Update Failed

In case of an unexpected power loss during the update process, the UBX-010RC terminal can eventually lead into a non-booting situation.

In this situation standard way of using Android OS features to restore the image cannot be used anymore.

Advantech offers a special way to use FASTBOOT connection from an external PC or laptop using USB (Type-C) OTG port to restore the Android OS image again.

This process does not require an RMA and can be handled directly at site following a dedicated SOP (Standard operating procedure) provided by Advantech.

For more information and to receive the SOP please contact your Advantech Service Center for further support.

Note! *It's not possible switching from Android AOSP image version to GMS version image of Android and vice versa.*



*This is also valid in case the **FASTBOOT** image will be applied following the SOP!*

Appendix **A**

USC-115RC
Peripherals

A.1 Peripheral List

Table A.1: Peripheral List

Ordering PN	Description
USC-P03-B400	5M Camera for UC-115RC
USC-P03-B401	RFID Scanner for USC-115RC
USC-P03-B402	LED LIGHT BAR for USC-115RC
USC-P03-B403	MSR module for USC-115RC
USC-P05-B400	2D Barcode scanner for USC-115RC I/O side
USC-M10G-BTC05	10.1" monitor, glass, blk, rear hinge, USBC, USC-115RC
USC-M10P-BTC05	10.1" monitor, PCAP, black, rear hinge, USBC, USC-115RC
USC-M15WP-BST16	15.6" monitor, PCAP, USBC, HDMI, stand, blk, USC-115RC
USC-PO7B-SH01	Single hinge stand for USC-115RC, 2 screws, black

A.2 USC-P05-B400 (2D Barcode Scanner)



Front view



Rear view

A.2.1 Specifications

Table A.2: Specifications

Interface	USB
Scanning Performance	Sensor: 640X480 CMOS Illumination: White LED Aiming: Red LED 625nm Symbologies: 2D (PDF417, QR Code, Data Matrix), 1D (Code 128, EAN-13, EAN-8, Code 39, UPC-A, UPC-E, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, Code 93, UCC/EAN-128, GS1 Databar, Matrix 2 of 5, Code 11, Industrial 2 of 5, Standard 2 of 5, Plessey, MSI-Plessey) Recognition Accuracy: $\geq 4\text{mil}$ Scan Angles: Tilt: 360° , Pitch $\pm 60^\circ$, Skew $\pm 60^\circ$ Field of View: Horizontal: 42° , Vertical: 31.5° Symbol Contrast: $\geq 25\%$
Typical Reading Distances Standard	EAN-13: 65mm~330mm(13mil) PDF 417: 65mm~110mm(6.67mil) Code 39: 65mm~150mm(5mil) Data Matrix: 50mm~110mm(10mil) QR Code: 45mm~140mm(15mil)
Power Supply	$3.3V_{DC} \pm 5\%$
Operating Temperature	$-20^\circ\text{C} \sim +50^\circ\text{C}$

A.2.2 Packing List

Table A.3: Packing List

Description	Quantity
Barcode Reader Unit	1

A.2.3 Ordering Information

Table A.4: Ordering Information

P/N	Description
USC-P05-B400	2D Barcode scanner for USC-115RC IO side

A.2.4 Installation

A.2.4.1 Barcode Scanner on USC-115RC IO side

1. Remove Cable cover, and loose these 2 screws, but keep the screws.



2. Insert USB cables in IO port.



3. Lock the barcode scanner by step 1 2pcs screws.



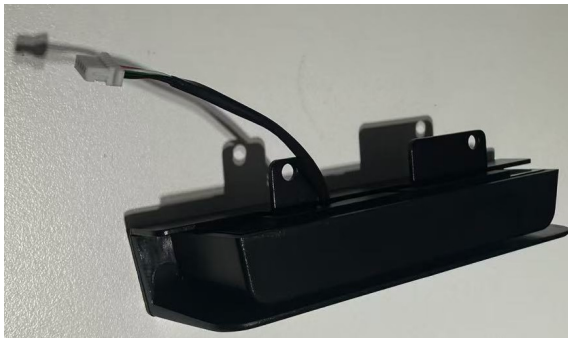
4. Assembly the cable cover back.



5. Finished! Front review.



A.3 USC-P03-B403 (MSR)



Front Review



Rear Review

A.3.1 Specifications

Table A.5: Specifications

Interface	USB
Track Configuration	TRACK 1 / IATA / 210 bpi / 79 Alphanumeric Characters TRACK 2 / ABA / 75 bpi / 40 Numeric Characters TRACK 3 / Thrift / 210 bpi / 107 Numeric Characters
Card Standard	ANSI/ISO Standards 7810, 7811-1~6, 7813
Read Speed	3 ips to 60 ips (7 cm/s to 150 cm/s)
Magnetic Head Life	1,000,000 times (ISO test standard)
OS Support	Windows 10 & Android
Dimensions	96.0 x 17.3 x 26.5 mm
Operating Temperature	0 ~ 40° C

A.3.2 Packing List

Table A.6: Packing List

Description	Quantity
Magnetic Stripe Reader Unit	1
Peripheral cover for USC-115RC side	1

A.3.3 Ordering Information

Table A.7: Ordering Information

P/N	Description
USC-P03-B403	MSR module for USC-115RC

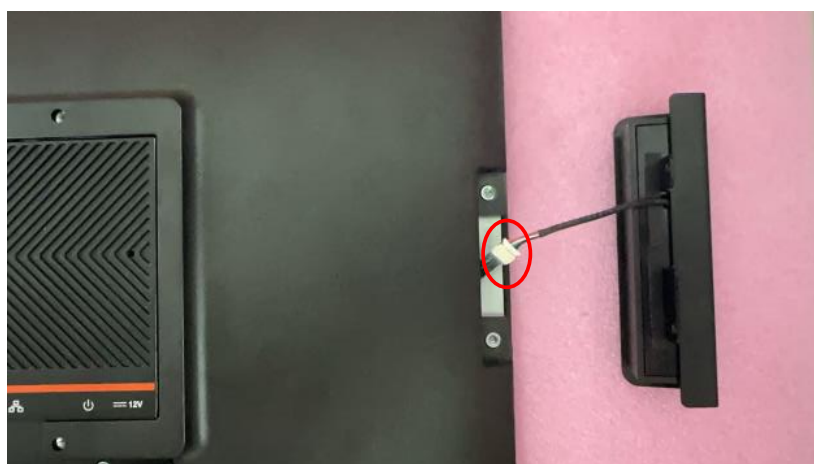
A.3.4 Installation

A.3.4.1 MSR on USC-115RC side

1. Remove peripheral cover, and loose these 2 screws.



2. Insert the MSR module USB cable.



3. Lock the MSR module by screws in peripheral cover accessory.



4. Find Peripheral cover in MSR package.



5. Assembly the new Peripheral cover (note: new Peripheral cover is different from USC-115RC original one).



6. Insert peripheral cover.



7. Finished! Front review.



A.4 USC-P03-B400 (5M Camera Module)



Front Review



Rear View

A.4.1 Specifications

Table A.8: Specifications	
Interface	USB
Image Resolution	2592 (H) x 1944 (V)
Focusing Range	10 cm~ ∞; Supports auto focus
Frame Rate	640 x 480 @ 30 fps max 1280 x 720 @ 30 fps max 1920 x 1080 @ 30 fps max 1600 x 1200 @ 7 fps max 2592 x 1944 @ 7 fps max
Video Format	MJPEG
OS Support	Windows 10 & Android
Dimensions	101.4 x 22.2 x 11.5 mm
Operating Temperature	0 ~ 40° C

A.4.2 Packing List

Table A.9: Packing List	
Description	Quantity
Camera Module Unit	1
Peripheral cover for USC-115RC side	1

A.4.3 Ordering information

Table A.10: Ordering Information	
P/N	Description
USC-P03-B400	5M Camera for USC-115RC

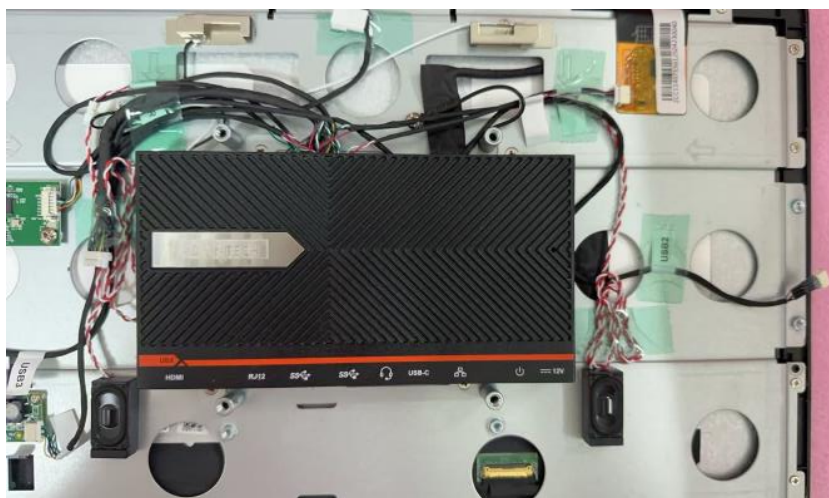
A.4.4 Installation

Camera on USC-115RC top side

1. Refer to manual chapter3, remove peripheral cover, cable cover and back cover.



2. Find this USB cable at right or left side?and make the routing on the top of machine internal.



3. Fix the cable like picture.



4. Assembly back cover, peripheral cover, cable cover and screws back, except top side.



5. Insert camera module cable to USC-115RC cables.



6. Lock 2 screw by step 1 2pcs screws.



7. Assembly the new Peripheral cover (note: new Peripheral cover is different from USC-115RC original one).



8. Insert peripheral cover.



9. Finished! Front review.



A.4.4.1 Camera on USC-115RC side

1. Remove peripheral cover, and loose these 2 screws, but keep the screws.



2. Insert the camera module USB cable.



3. Lock the camera module by previous step 1 screws.



4. Find Peripheral cover in peripheral package.



5. Assembly the new Peripheral cover (note: new Peripheral cover is different from USC-115RC original one).



-
6. Insert peripheral cover.



7. Finished! Front review.



A.5 USC-P03-B401 (RFID Reader)



A.5.1 Specifications

Table A.11: Specifications	
Interface	USB
Frequency	13.56 MHz
RFID R/W Mode	Support ISO15693, ISO14443A/B, Felica, Mifare Ultralight
NFC	Support NFCIP-1 (ISO 18092), NFCIP-2 (ISO/IEC21481)
NFC Card Mode Simulates	ISO14443A/B mode
NFC R/W Mode	Support Type 1/2/3/4
OS Support	Windows 10 & Android
Dimensions	101 x 37 x 25 mm
Operating Temperature	0 ~ 40° C

A.5.2 Packing List

Table A.12: Packing List	
Description	Quantity
RFID Module Unit	1
Peripheral cover for USC-115RC side	1

A.5.3 Ordering Information

Table A.13: Ordering Information	
P/N	Description
USC-P03-B401	RFID Scanner for USC-115RC

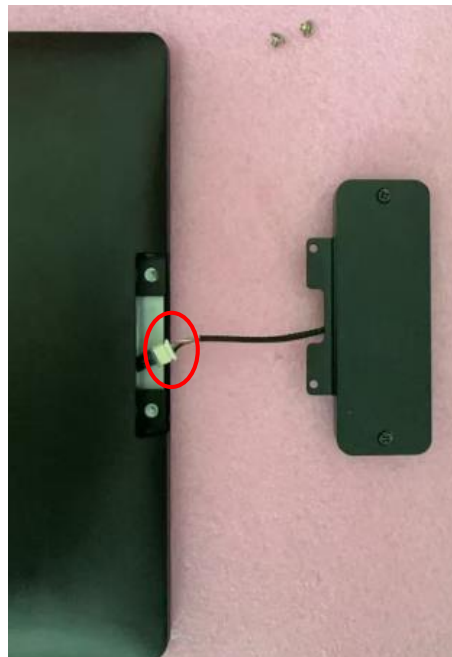
A.5.4 Installation

A.5.4.1 RFID on USC-115RC side

1. Remove peripheral cover, and loose these 2 screws, but keep the screws.



2. Insert the RFID module USB cable.



3. Lock the camera module by previous step 1 screws.



4. Find Peripheral cover in peripheral package.



-
5. Assembly the new Peripheral cover (note: new Peripheral cover is different from USC-115RC original one).



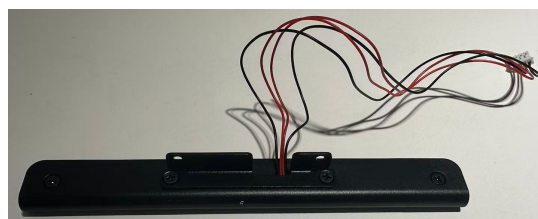
6. Insert peripheral cover.



7. Finished! Front review.



A.6 USC-P03-B402 (LED Light Bar)



A.6.1 Specifications

Table A.14: Specifications

Interface	USB
Dimensions	160.0 x 18.5 x 9.0 mm
Operating Temperature	0 ~ 40° C

A.6.2 Packing List

Table A.15: Packing List

Description	Quantity
LED Light Bar Unit	1
Peripheral cover for USC-115RC side	1

A.6.3 Ordering Information

Table A.16: Ordering Information

P/N	Description
USC-P03-B402	LED LIGHT BAR for USC-115RC

A.6.4 Installation

A.6.4.1 Led Bar on USC-115RC Top side

1. Remove peripheral cover on top, and loose these 2 screws, but keep the screws.



2. Insert Led Bar cable to USC-115RC cables.



3. Assembly the new Peripheral cover (note: new Peripheral cover is different from USC-115RC original one).



4. Insert peripheral cover.



A.7 USC-M10 (10.1" Monitor with rear hinge)

A.7.1 Specification

Table A.17: Specifications

Model	USC-M10
Panel	10.1" TFT LCD(LED backlight)
Brightness	350 cd/m ²
Contrast Ratio	800:1
Touchscreen	P: PCAP/G: Glass
Resolution	1280 x800
Aspect Ratio	16:10
Signal input	HDML. USB C
Viewing Angle	170°/170°
Power	DC12V
Response Time	25ms
Vesa Mountable	75x75mm
Operating Temperature	0-40 °C
Color Option	Space Grey /Silver /Black (black stand)
Dimensions	244.4 x 163 x 27 mm
OS Support	Windows/Linux/Android

A.7.2 Packing list

Table A.18: Packing list

Description	QTY
USC-M10 10.1" monitor with rear hinge	1
Type C cable	1

A.7.3 Ordering Information

Table A.19: Ordering Information

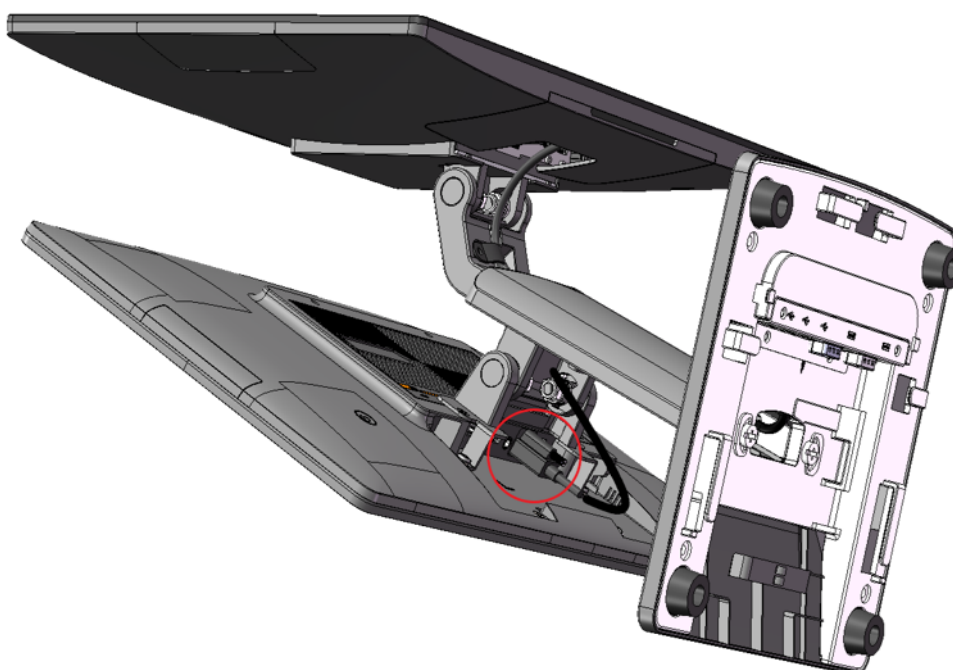
PN	QTY
USC-M10G-BTC05	10.1"monitor,glass,blk,rear hinge, USBC, USC-115RC
USC-M10P-BTC05	10.1" monitor, PCAP, black, rear hinge, USBC,USC-115RC

A.7.4 Installation

1. Remove stand top cover.
2. Insert USB-C cable in USC-M10 & USC-M15W USB-C port.
3. Insert USC-M10 & USC-M15W in USC-115RC stand.



4. Insert USB-C another side in USC-115RC UCB-C port.



A.8 USC-M15WP-BST16 (15.6" monitor with rear hinge)

A.8.1 Specification

Table A.20: Specifications

Model	USC-M15W
Panel	15.6" Full HD LCD(LED backlight)
LCD Brightness	220 cd/m ² (350 cd/m ² optional)
Contrast Ratio	1000:1
Touchscreen	P: PCAP/G: Glass
Resolution	1920 x 1080
Aspect Ratio	16:9
Signal input	HDMI, USB C
Viewing Angle	178°/178°
Power	DC12V
Response Time	25ms
Vesa Mountable	75 x 75mm
Speaker	2x2W
Operating Temperature	0-40 °C
Color Option	Black
Dimensions	381 x 230.5 x 31.5mm
OS Support	Windows/Linux/Android

A.8.2 Packing list

Table A.21: Packing list

Description	QTY
USC-M15W 15.6" monitor with rear hinge	1
Type C cable	1

A.8.3 Ordering Information

Table A.22: Ordering Information

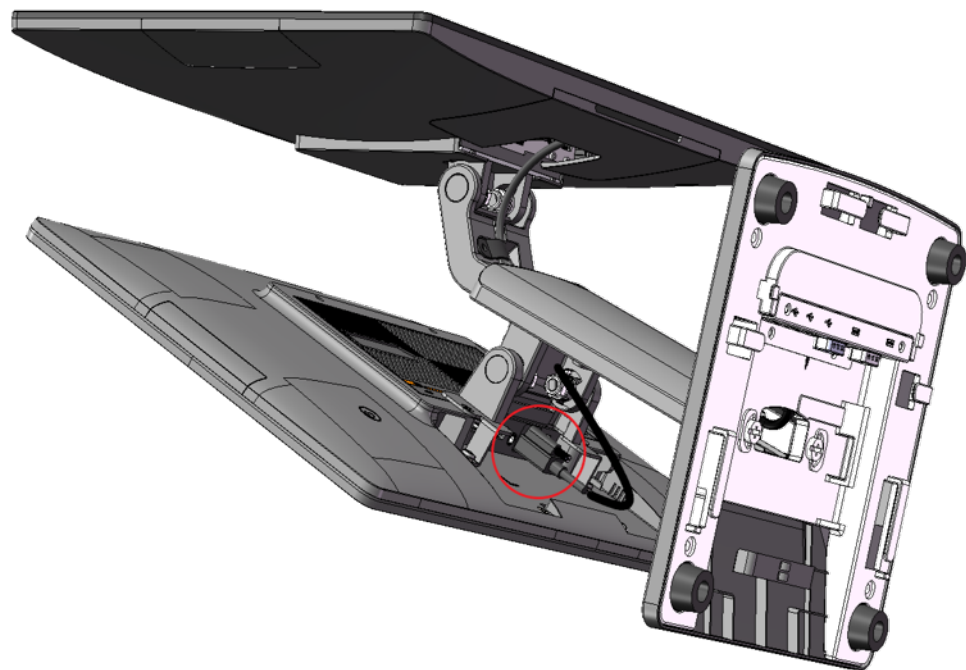
PN	QTY
USC-M15WP-BS16	15.6" monitor, PCAP, USBC, HDMI, stand, blk, USC-115RC

A.8.4 Installation

1. Open the front cover.
2. Insert IO extension cable.
3. Lock screws with your hand.



4. Lock 4 screws.



A.9 USC-P07B-SH01 (Single Hinge Stand)

A.9.1 Packing list

Table A.23: Packing List

Description	QTY
Single hinge with VESA brk for USC-115RC only	1
screws	4

A.9.2 Ordering Information

Table A.24: Ordering Information

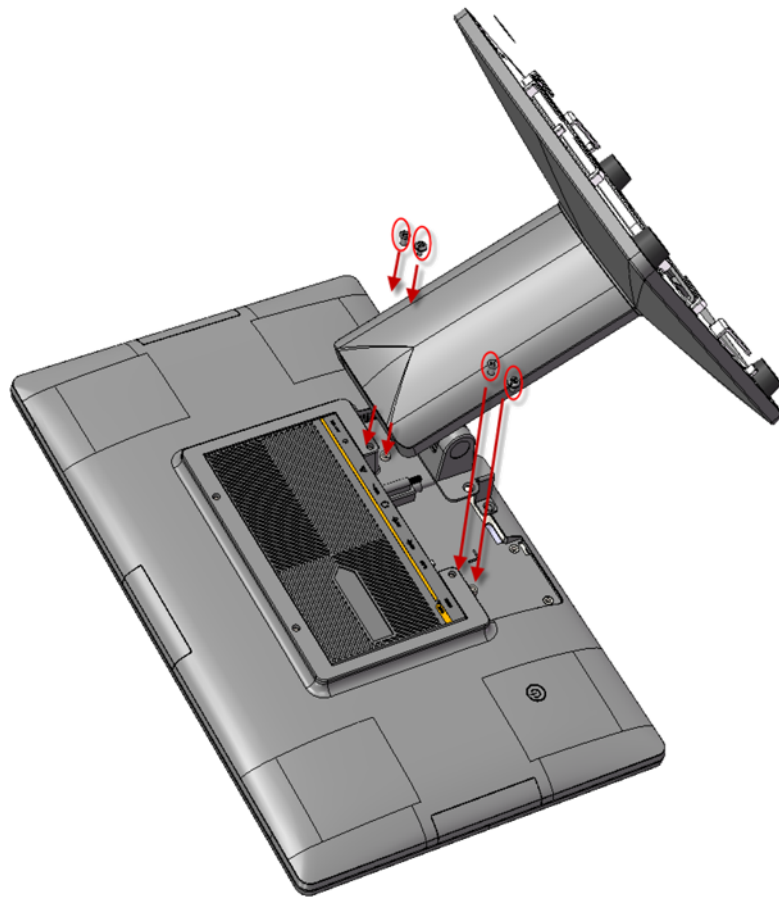
PN	QTY
USC-P07B-SH01	Single hinge stand for USC-115RC,2screws, black

A.9.3 Installation

1. Open the front cover.
2. Insert IO extension cable.
3. Lock screws with your hand.



-
4. Lock 4 screws.





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