

FM07MG-K

7-inch Vehicle Mount Computer

ARM Genio 510 2 x A78 2.0GHz + 4 x A55 2.0GHz



User Guide

Content

Content	1
Preface	3
Chapter 1: Introduction	8
1.1 Introduction	8
1.2 Package Contents.....	8
1.3 Components	9
1.3.1 Front View	9
1.3.2 Side Views.....	10
1.3.3 Rear View	11
1.3.4 Top and Bottom View	12
Chapter 2: Hardware.....	13
2.1 System Hardware	13
2.1.1 Central Processing Unit.....	13
2.1.2 Input and Output Connectors	13
2.1.3 System Memory	13
2.1.4 Audio Interface	13
2.1.5 WLAN	13
2.1.6 WWAN (Optional).....	13
2.2 Power Cable Installation	14
2.2.1 Wiring the Power Cable.....	14
2.2.2 Connecting the Power Cable for Installation On the Vehicle	14
2.2.3 Vehicle DC Power Supply	15
2.3 Power Control	15
2.3.1 Power Button.....	15
2.3.2 Ignition Control	15
2.4 External Connectors.....	16
2.4.1 Power & CANBus & DIDO Connector	16
2.4.2 LAN Connector	17
2.4.3 USB 2.0 Connector	17
2.5 External Vehicle Remote Antenna Installation.....	18
2.6 Display	18
Chapter 3: Software	19
3.1 Introduction	19
3.1.1 Operating System.....	19
3.1.2 About Android 13.....	19
3.2 Setting up the Device	19
3.2.1 Home Screen	19
3.2.2 Opening 3-Button Navigation	20
3.2.3 Personalizing the Home Screen	22
3.3 Status and Notification Icons	24
3.3.1 Notification Icons	24
3.3.2 Status Icons.....	24
3.4 Control Panel	25
3.4.1 Using the Touch Screen	25
3.4.2 System Settings	26
3.5 Winset.....	33
3.5.1 System Information	33
3.5.2 Ignition Control	33
3.5.3 DIDO Controller.....	34
3.5.4 Function Buttons	35

3.6 Winmate Kiosk Manager	36
3.6.1 Lock Applications Launcher.....	36
3.6.2 Change Password	41
3.6.3 Unlock Applications Launcher	43
3.7 Networks and Wireless Devices	46
3.7.1 Connecting to Wi-Fi Networks (Optional)	46
3.7.1.1 Turning on Wi-Fi and Connecting to Wi-Fi Networks.....	46
3.7.1.2 Adding Wi-Fi Network.....	49
3.7.2 Connecting to BT Devices (Optional)	51
3.7.2.1 Turning BT On or Off	51
3.7.2.2 Connecting the BT Device	52
3.7.2.3 Disconnecting BT Device	53
3.7.3 Connecting to Computer via USB.....	54
3.7.3.1 USB Debugging Settings.....	54
3.7.3.2 USB Computer Connection	59
3.8 Software Update	61
3.8.1 Image Tool Download	61
3.8.2 OTA Update Guide.....	61
Chapter 4: Vehicle Mounting.....	65
4.1 Vehicle Mount Instruction.....	65
4.2 VESA Mount Installation	65
4.3 RAM Mount Installation.....	65
4.3.1 Mounting 1 – No Drill Solution	66
4.3.2 Mounting 2 – Drill Solution.....	67
4.3.3 RAM Mount Assembly	68
4.3.4 Mounting 3 – Keyboard Mounting Installation.....	68

Preface

Copyright

No part of this manual may be reproduced, copied, translated, or transmitted in any form or any means, electronic or mechanical, for any purpose, without the written permission of Winmate Inc.

Trademarks

Brand and product names are trademarks or registered trademarks of their respective owners.

Disclaimer

Winnate Inc. reserves the right to make any product changes without notice, including circuits and/or software described or contained in this manual in order to improve design and/or performance. Winnate Inc. assumes no responsibility or liability for the use of the described product (s), conveys no license or title under any patent, copyright, or masks work rights to these products, and makes no representations or warranties that these products are free from patent, copyright, or mask work right infringement, unless otherwise specified. Applications that are described in this guide are for illustration purposes only. Winnate Inc. makes no representation or warranty that such application will be suitable for the specified use without further testing or modification.

Warranty

Winnate Inc. warrants that each of its products is free from material and workmanship defect for a period of one year starting from the invoice date. If the customer discovers a defect, Winnate Inc. will, at its option, repair or replace the defective product at no charge to the customer, provided it is returned during the warranty period, with transportation charges prepaid. The returned product must be properly packaged in its original packaging to obtain warranty service.

Advisory Conventions

Four types of advisories are used throughout the user manual to provide helpful information or to alert you to the potential for hardware damage or personal injury. These are Notes, Important, Cautions, and Warnings. The following is an example of each type of advisory.



Note:

A note is used to emphasize helpful information



Important:

An important note indicates information that is important for you to know.



Caution/ Attention

A Caution alert indicates potential damage to hardware and explains how to avoid the potential problem.

Une alerte d'attention indique un dommage possible à l'équipement et explique comment éviter le problème potentiel.



Warning!/ Avertissement!

An Electrical Shock Warning indicates the potential harm from electrical hazards and how to avoid the potential problem.

Un Avertissement de Choc Électrique indique le potentiel de chocs sur des emplacements électriques et comment éviter ces problèmes.

FCC Statement



This device complies with part 15 FCC rules.

Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF exposure statements

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body or nearby persons.

ICRSS 247(Supports 5250-5350MHz) “for indoor use only”

Canadian Compliance Statement

This device complies with Industry Canada license-exempt RSSs. Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1. l'appareil ne doit pas produire de brouillage;
2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Caution:

1. The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;Footnote4
2. For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;

3. For devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate; and
4. Where applicable, antenna type(s), antenna models(s), and worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in section 6.2.2.3 shall be clearly indicated.

Avertissement:

1. Les dispositifs fonctionnant dans la bande de 5150 à 5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux. Note de bas de page 4;
2. Pour les dispositifs munis d'antennes amovibles, le gain maximal d'antenne permis pour dispositifs utilisant les bandes de 5250 à 5350 MHz et de 5470 à 5725 MHz doit être conforme à la limite de la p.i.r.e;
3. Pour les dispositifs munis d'antennes amovibles, le gain maximal d'antenne permis (pour les dispositifs utilisant la bande de 5725 à 5850 MHz) doit être conforme à la limite de la p.i.r.e. spécifiée, selon le cas;
4. Lorsqu'il y a lieu, les types d'antennes (s'il y en a plusieurs), les numéros de modèle de l'antenne et les pires angles d'inclinaison nécessaires pour rester conforme à l'exigence de la p.i.r.e. applicable au masque d'élévation, énoncée à la section 6.2.2.3, doivent être clairement indiqués.

Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

CE Notice (European Union)



Electromagnetic Compatibility Directive (2014/30/EU)

- EN55035: 2017/ A11: 2020
 - IEC61000-4-2: 2008
 - IEC61000-4-3: 2020
 - IEC61000-4-4: 2012
 - IEC61000-4-5: 2014 / A1: 2017
 - IEC61000-4-6: 2013+COR1:2015
 - IEC61000-4-8: 2009
 - IEC61000-4-11: 2020
- EN55032: 2015 +A11:2020
 - EN61000-3-2: 2019+A1:2021
 - EN61000-3-3: 2013 +A2:2021

Low Voltage Directive (2014/35/EU)

- EN62368-1:2014+A11:2017

This equipment is in conformity with the requirement of the following EU legislations and harmonized standards. Product also complies with the Council directions.

Read Me First



Attention: Pour réduire le risque d'incendie ou de choc électrique ne pas exposer l'appareil à la pluie ou à l'humidité. VERIFIER que le cordon électrique est la prise murale pour un délai d'inactivité prolongé. Pour arrêter complètement l'alimentation de l'appareil, débranchez le cordon d'alimentation de la prise AC. N'enlever ni le capot arrière ni les pièces internes de l'appareil. Contactez un personnel qualifié si nécessaire.



SA1965

Electrique Avertissement

Utilisé pour les instructions destinés à alerter l'utilisateur d'un CHOC ÉLECTRIQUE mortel ou de blessure grave en cas d'utilisation incorrecte de l'unité.



SA1966

Avertissement Utilisé pour les instructions destinés à alerter l'utilisateur d'un risque mortel ou de blessure grave en cas d'utilisation incorrecte de l'unité.



Attention: Pour réduire le risque d'incendie ou de choc électrique ne pas exposer l'appareil à la pluie ou à l'humidité FAIRE le cordon électrique est DÉBRANCHÉ DE LA PRISE MURALE DANS UN DELAI DE PROLONGER INACTIVITÉ. De se désengager totalement LE POUVOIR DE L'UNITÉ, S'IL VOUS PLAÎT DEBRANCHER LE CORDON D'ALIMENTATION DE LA PRISE AC. NE PAS Remove le capot arrière, pas de PIÈCES À L'INTÉRIEUR. Contactez un personnel qualifié S'il faut le réparer.



SA1965

Electrique Avertissement

Sert aux instructions destin es alerter l'utilisateur d'un CHOC ÉLECTRIQUE mortel ou de blessure grave en cas d'utilisation incorrecte de l'unit.



SA1966

Avertissement Sert aux instructions destin es alerter l'utilisateur d'un risque mortel ou de blessure grave en cas d'utilisation incorrecte de l'unit .

Informations de sécurité (FR)

Suivez et respectez tous les avertissements et instructions figurant sur l'écran. Pour votre sécurité, s'il vous plaît lire toutes les consignes de sécurité et de fonctionnement avant d'utiliser le device. Gardez ce manuel pour référence future.

1. Lire avec attention toutes les recommandations et précautions d'emploi avant d'utiliser ce produit.
2. Veuillez conserver ces recommandations et précautions pour référence future.
3. Lire et comprendre tous les avertissements énumérés dans les précautions d'emploi.
4. Suivre toutes les précautions d'emploi pour utiliser ce produit.
5. Utiliser exclusivement un chiffon sec pour nettoyer ce produit.
6. Ne pas placer le produit près de toute source de chaleur telle que radiateurs, arrivées d'air chaud, fourneaux ou autres appareils générant de la chaleur (incluant les amplificateurs producteurs de chaleur) .
7. Ne pas négliger la sécurité que procure un branchement polarisé ou avec raccordement à la terre, Un branchement polarisé comprend deux fiches dont l'une est plus large que l'autre. Un branchement à la terre comprend deux fiches plus une troisième reliée à la terre. Si la fiche secteur fournie ne s'insère pas dans votre prise de courant. consulter un 'électricien afin de remplacer votre prise obsolète.
8. Protéger le cordon d'alimentation de tout écrasement ou pincement, particulièrement au niveau des fiches, des réceptacles utilisés et à l'endroit de sortie de l'appareil. Ne pas casser la fiche

de terre du cordon d'alimentation.

9. Utiliser uniquement les accessoires spécifiés par le constructeur.
10. Utilisez seulement des accessoires spécifiés par le fabricant ou vendus avec le produit.
11. Débrancher cet appareil lors d'orages ou s'il n'est pas utilisé pendant une longue période.
12. Faire exécuter le service par du personnel qualifié. Une intervention technique est requise lorsque l'appareil a été endommagé ou n'opère pas normalement.



Safety Information (EN)

Follow and adhere to all warnings and instructions on the screen. For your safety, please read all safety and operating instructions before using the device. Keep this manual for future reference.

1. Carefully read all recommendations and precautions for use before using this product.
2. Retain all recommendations and precautions for future reference as necessary.
3. Read and be sure to understand all warnings listed in the precautions.
4. Follow all operating precautions when using this product.
5. Use only a dry cloth to clean this product.
6. Do not place the product near any heat sources such as radiators, warm air intakes, stoves or other heat-generating devices (including amplifiers or other heat-producing equipment).
7. Do not disregard the safety that a polarized or grounded connection can provide. A polarized connection consists of two plugs, one of which is larger than the other. A grounded connection has two blades and a third one that is grounded. If the main plug provided cannot be inserted into your outlet, consult an electrician to replace your obsolete outlet.
8. Protect the power cord from being crushed or pinched, particularly in the area of the plugs, any receptacles used, and the point of exit from the apparatus. Do not break off the ground pin of the power cord.
9. Use only accessories specified by the manufacturer.
10. Use only with accessories specified by the manufacturer or sold with the product.
11. Unplug this apparatus during lightning storms or when it is not being used for long periods.
12. Refer all servicing to qualified service personnel. A technical intervention is required when the apparatus has been damaged in any way or does not operate normally.



General Guideline

It is recommended to reboot the device when some functions are defect or inactive. If it still can't solve the problems, please contact your dealer or agent.

About This Guide

This User Guide provides instruction for the system administrator to follow when configuring and using the FM07MG-K Vehicle Mount Computer.



Note:

Display images shown may vary slightly from actual display. Information in this manual is subject to change without prior notification.

Chapter 1: Introduction

This chapter contains details of FM07MG-K Vehicle Mount Computer, lists supplied accessories and shows components.

1.1 Introduction

The FM07MG-K Vehicle Computer runs on a Genio 510 A78 + A55 processor and supports Android Operating System. The FM07MG-K features projected capacitive touch screen with 1280 x 720 pixel resolution. The FM07MG-K delivers flexibility and mobility in a vehicle mounted computer form factor. The FM07MG-K is designed to be mounted on the vehicle and supports 9 to 36V DC wide power input with ignition.

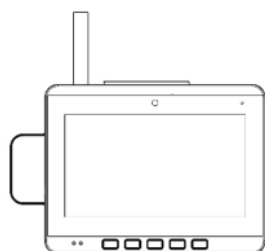
**Note:**

Contact our technical support for information on the latest firmware upgrade for your device.

1.2 Package Contents

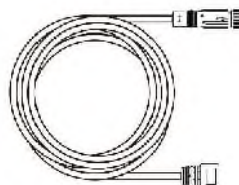
Standard

Before using this device, make sure that all the items listed below are present in your package:



FM07MG-K Computer

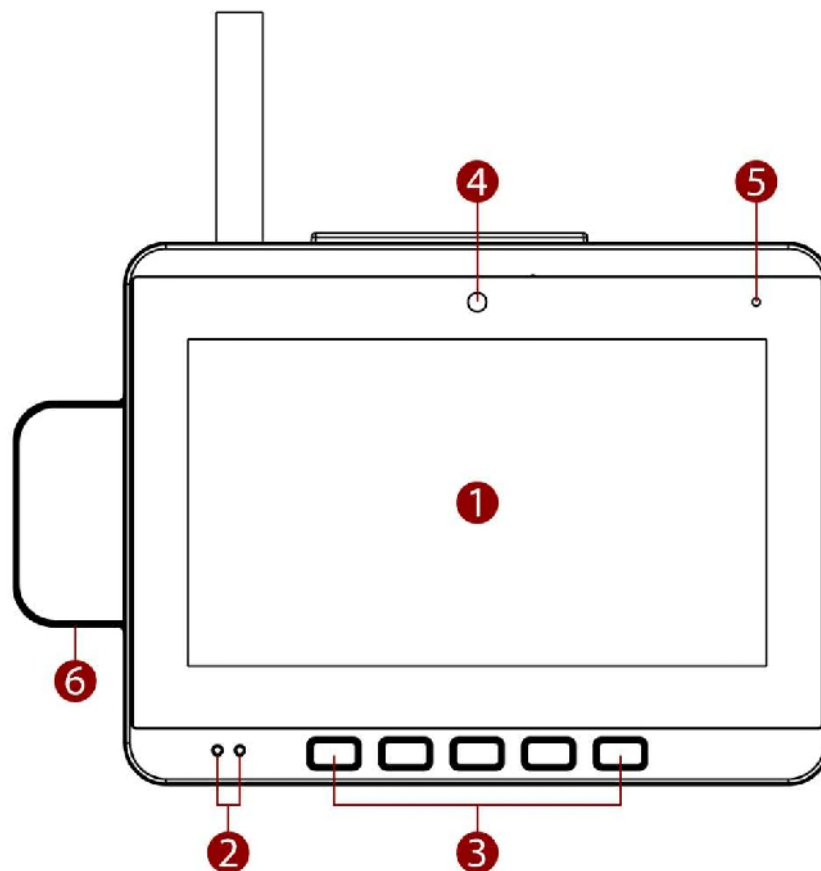
*Varies by product
specifications*



M8 LAN Cable

1.3 Components

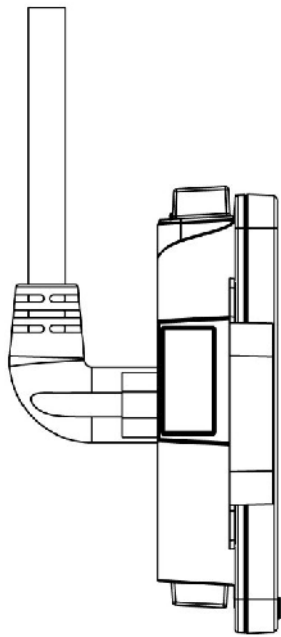
1.3.1 Front View



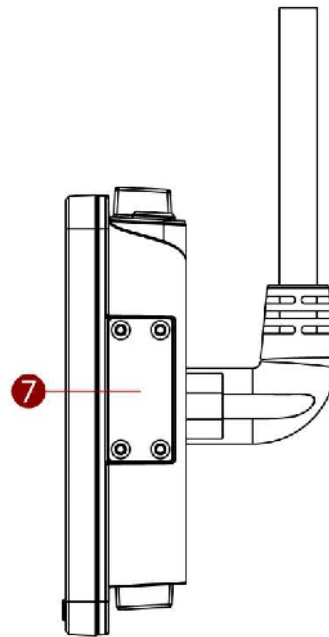
No	Item	Description
1	7-inch Touch Screen	Acts as one of the inputs for the device
2	LED Indicators	POWER LED indicator <i>On: Power is on</i> <i>Off: Power is off</i>
3	Function Keys	5 programmable function keys that can be configured by Winset Utility
4	Front Camera	8 Megapixel Webcam.
5	Light Sensor	Detect the availability of light and automatically control the brightness of a screen backlight intensity.
6	HID RFID	Supports HID-compliant LF RFID cards for secure access and identification. Connects via USB Type-C with plug-and-play support.

1.3.2 Side Views

Left Side

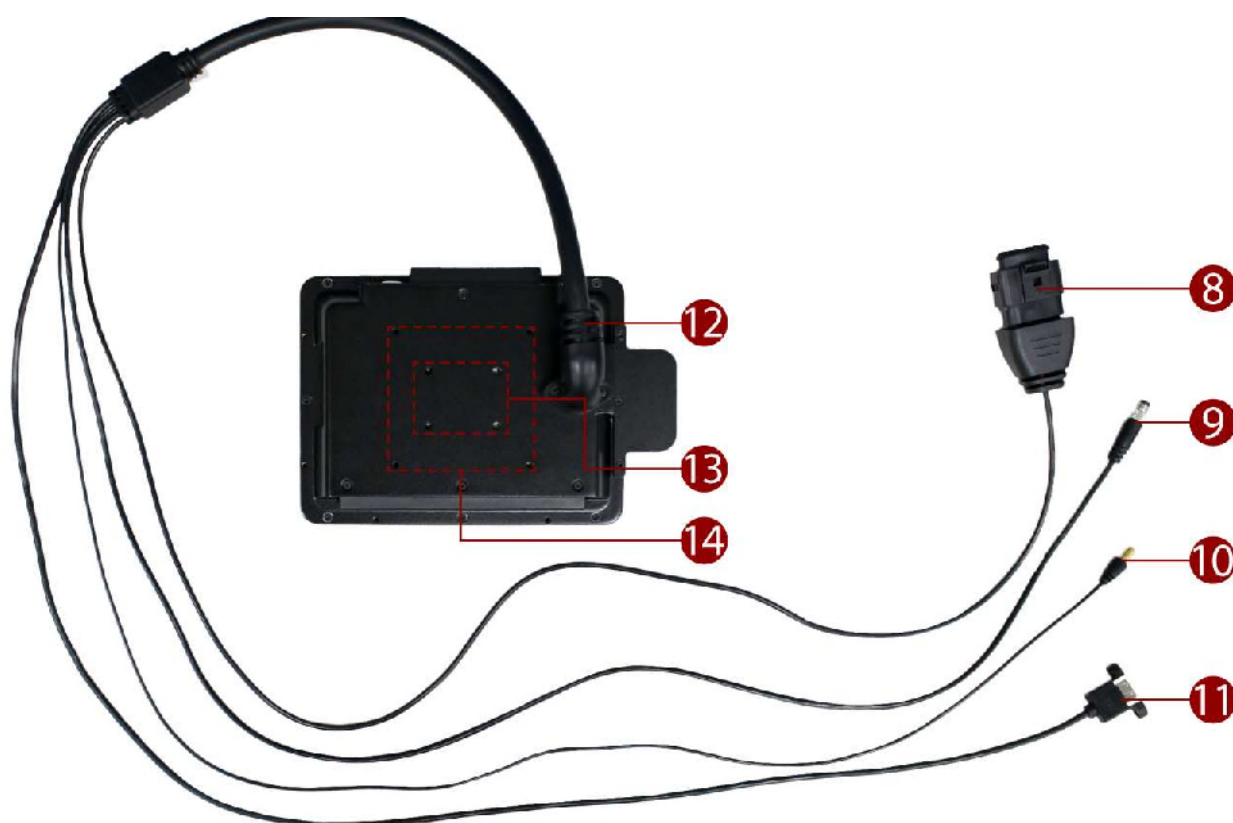


Right Side



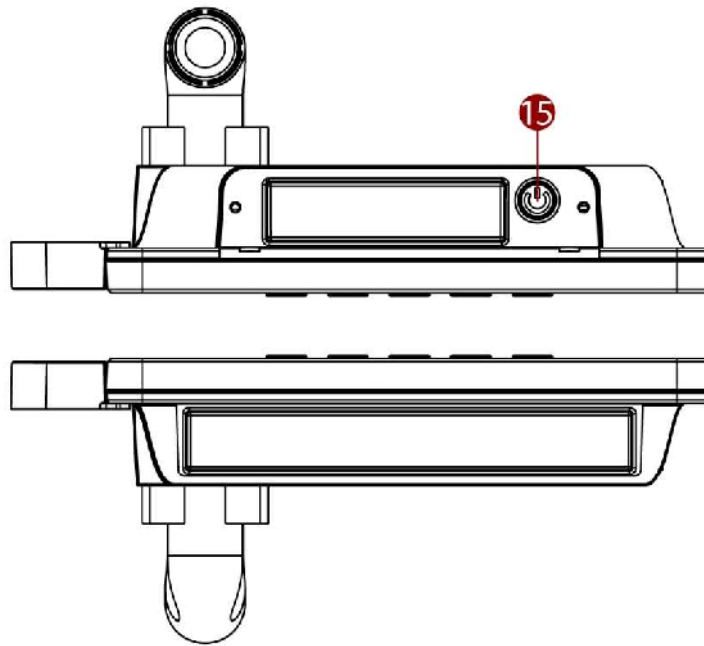
No	Item	Description
7	SD Card Slot	Service window to insert MicroSD card.
	SIM Card Slot	Service window to insert Nano SIM cards.
	USB Type-C	A USB port connects to USB devices.

1.3.3 Rear View



No	Item	Description
8	Power input	Connect a 9-36V DC IN wide range power input
	CANBus	CANBus connector allows direct linking into vehicle, enable access to wide range of vehicle data
	Digital Output	DIDO connector allows direct linking into vehicle, enable access to wide range of vehicle data.
9	LAN	Gigabit Ethernet connector (M8 type) connects to on access point that provides connection to network.
10	GPS Antenna	Connect a GPS external antenna and allow the device to be remotely mounted on the vehicle.
11	USB Type-A	Connect USB peripheral devices such as USB Flash drive, mouse, keyboard, printer, etc.
12	Speaker	Emits sound
13	RAM Mount	RAM base dimensions: 38.1 x 30 mm
14	VESA Mount	VESA dimensions : 75 x 75 mm

1.3.4 Top and Bottom View



No	Item	Description
15	Power Button	Press power button to start the system.

Chapter 2: Hardware

This chapter describes system hardware of FM07MG-K Vehicle Mount Computer.

2.1 System Hardware

2.1.1 Central Processing Unit

The FM07MG-K Vehicle Computer runs on an ARM Genio 510 2 x A78 2.0GHz + 4 x A55 2.0GHz processor and supports Android 13 operating system.

2.1.2 Input and Output Connectors

The FM07MG-K device supports the following I/O connectors:

- Gigabit Ethernet LAN (M8 type)
- 1 x Power input 9-36V DC with ignition control
- 2 x Digital Input, 2 x Digital Output
- 2 x CANBus
- 1 x USB Type-A
- 1 x SIM card slot (optional)
- 1 x SD card slot
- 1 x USB Type-C

2.1.3 System Memory

The main system memory is 4GB LPDDR4.

2.1.4 Audio Interface

Your device is equipped with one speaker which is located on the back cover.

2.1.5 WLAN

Your device has an WLAN network card that can be used with internal antennas.

2.1.6 WWAN (Optional)

Using a SIM card for network connection, your device supports Wireless Wide Area Networking (WWAN).

2.2 Power Cable Installation

2.2.1 Wiring the Power Cable



WARNING!/ AVERTISSEMENT!

This procedure requires a trained service personnel only, improper installation can cause serious damage to the vehicle or the device.

Cette procédure nécessite un personnel de maintenance qualifié uniquement, une mauvaise installation peut causer des dommages importants au véhicule ou le dispositif.

2.2.2 Connecting the Power Cable for Installation On the Vehicle



WARNING!/ AVERTISSEMENT!

This power cable should only be used on the 9 to 36 Volt forklifts.

Ce câble d'alimentation ne doit être utilisé que sur les chariots élévateurs de 9 à 36 volts.



WARNING!/ AVERTISSEMENT!

Select a mounting location and make sure it is not located on the outside the vehicle. Sélectionnez un emplacement de montage et assurez-vous qu'il ne se trouve pas à l'extérieur du véhicule.

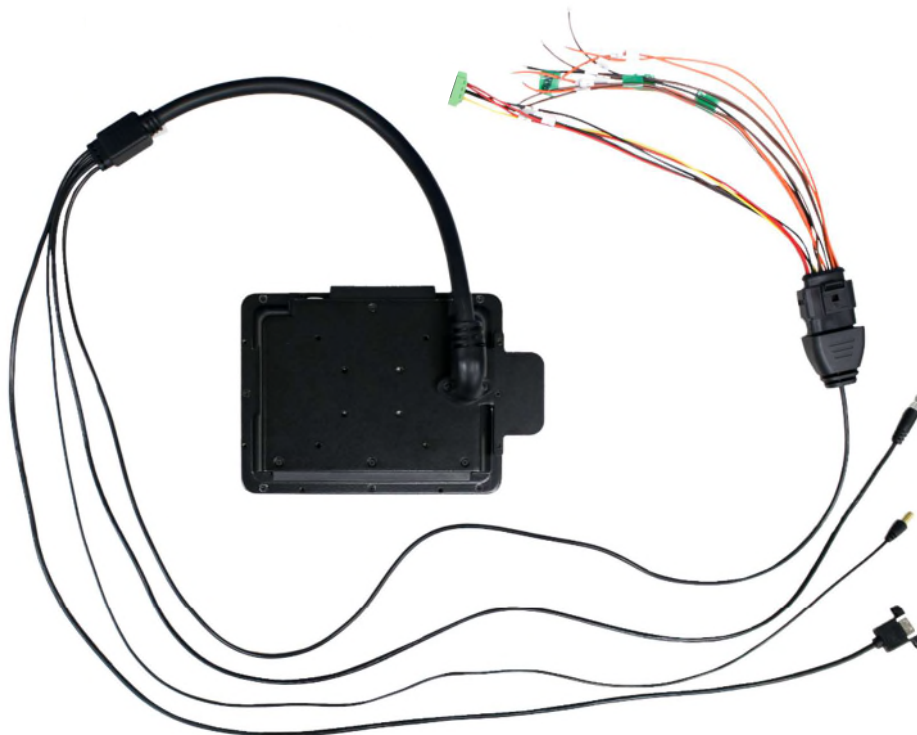


WARNING!/ AVERTISSEMENT!

Do not perform the installation on a moving or live electric forklift.

Ne pas effectuer l'installation sur un mobile ou un chariot élévateur électrique sous tension.

Wiring Instruction



1. Remove the vehicle battery before connecting the power cable.
 2. Connect the **Red** wire to the vehicle's positive power source. Connect both **black** wires to the vehicle's negative power source.
 3. Connect the **Yellow** wire to the vehicle's ignition switch for the ignition function.
- Power cable description:

Color	Symbol
Red	VCC+
Yellow	Ignition input (optional)
Black	VCC-
Black	VCC-

2.2.3 Vehicle DC Power Supply

The power input voltage range for the FM07MG-K is between 9 to 36 V DC with ignition control.



Warning!/ Avertissement!

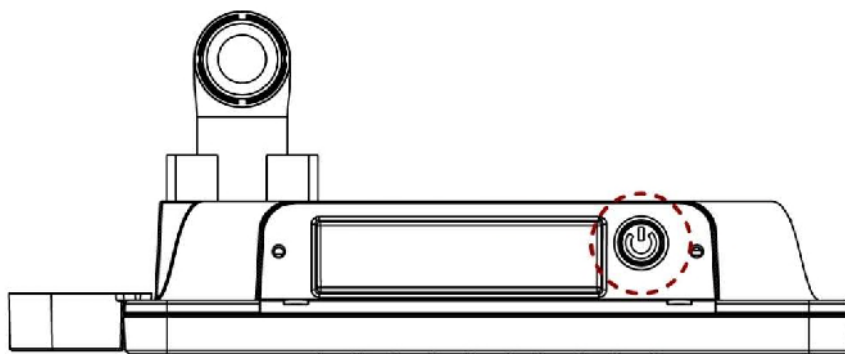
Longer cable length may cause voltage drop resulting in failure to boot the device. If you are unable to boot the device, please check the line loss of your cable and make sure the power input for power connector of the unit is higher than 9V.

Une longueur de câble plus longue peut provoquer une chute de tension et empêcher le démarrage du périphérique. Si vous ne parvenez pas à démarrer le périphérique, vérifiez la perte de ligne de votre câble et assurez-vous que l'entrée d'alimentation du connecteur d'alimentation de l'unité est supérieure à 9V.

2.3 Power Control

2.3.1 Power Button

Power button is located on the top of the device. When the FM07MG-K is connected to the external power and the power button is ON, the device can be powered on.



2.3.2 Ignition Control

The FM07MG-K supports power ignition function.

2.4 External Connectors



Note:

Power OFF the FM07MG-K before connecting cables to any port.

2.4.1 Power & CANBus & DIDO Connector

The FM07MG-K features a VW-style connector supporting 9–36V DC input, dual CANBus interfaces, and dual DIDO ports. Use the all-in-one cable to connect both power and I/O. The connector is located on the rear side. Ensure all connections are properly secured before powering on the device.

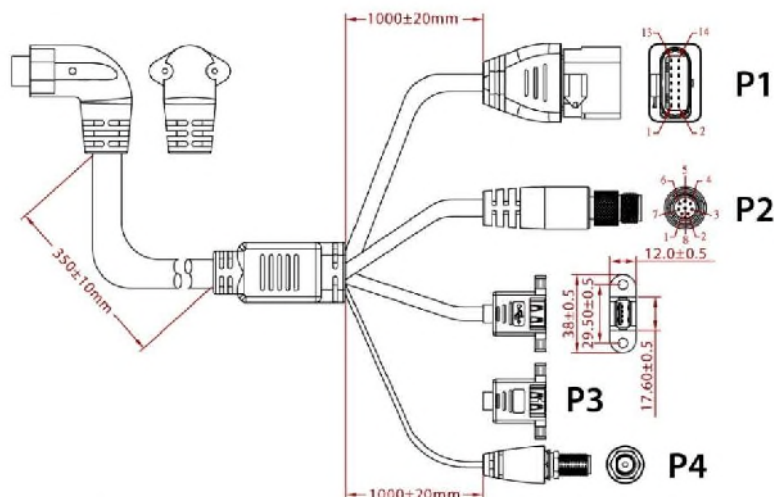


Warning!/ Avertissement!

This procedure requires a trained service personnel only, improper installation can cause serious damage to the vehicle or the device.

Cette procédure nécessite un personnel de maintenance qualifié uniquement, une mauvaise installation peut causer des dommages importants au véhicule ou le dispositif.

Pin Assignment and signal names of the cable



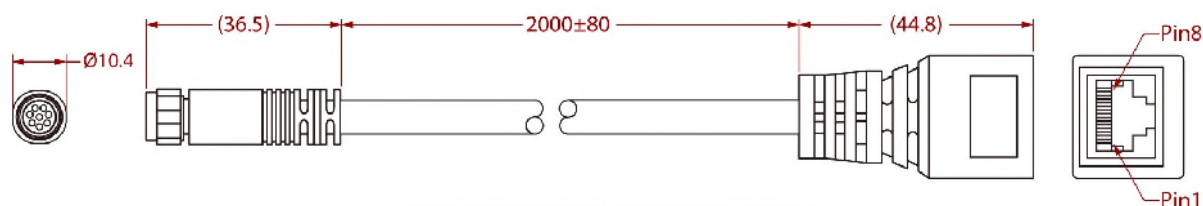
P1 Power & CANBus & DIDO Connector

Pin No.	Symbols	Color
1	12V	Black
2	12V	Brown
3	GND	Red
4	GND	Orange
5	IGN	Yellow
6	DI_1	Green
7	DI_2	Blue
8	DO_1	Purple
9	DO_2	Gray
10	GND	White
11	CANH_2_CONN	Pink
12	CANL_2_CONN	Light Green
13	CANH_1_CONN	Light Blue
14	CANL_1_CONN	Black / White

2.4.2 LAN Connector

The FM07MG-K has M8 type 8 pin LAN connector. Use LAN cable (supplied with FM07MG-K) to connect the FM07MG-K to the Ethernet.

Pin assignment and signal names of LAN cable

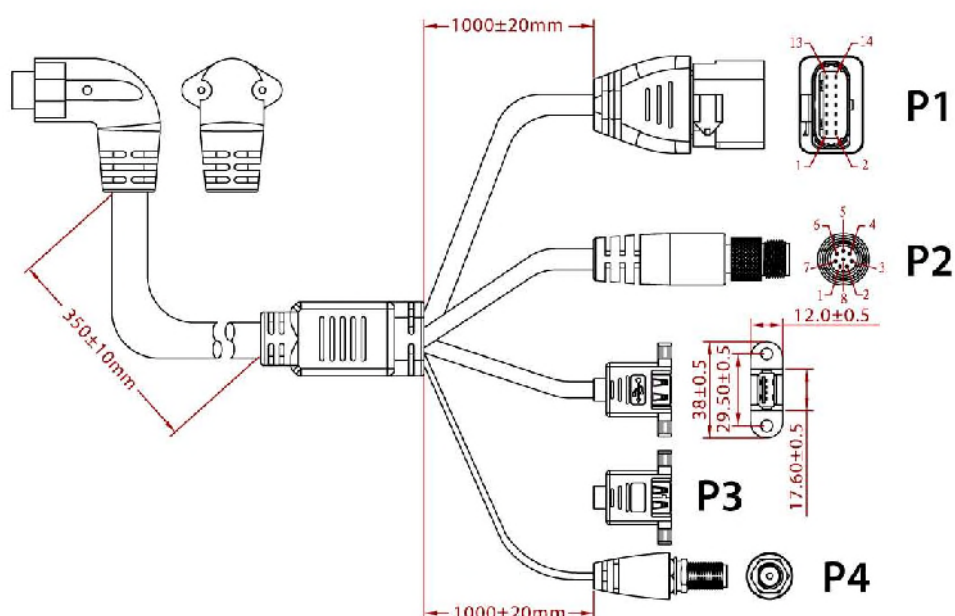


Pin No.	Symbols
1	DA+
2	DA-
3	DB+
4	DB-
5	DC+
6	DC-
7	DD+
8	DD-

2.4.3 USB 2.0 Connector

The FM07MG-K features a USB 2.0 Type-A connector integrated in the rear all-in-one cable. It supports one USB device, such as a printer or scanner.

Pin assignment and signal names of the cable



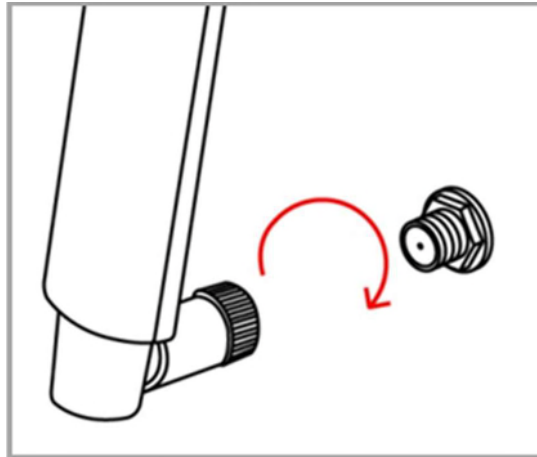
P3 USB Connector

Pin No.	Symbols
1	5V
2	D-
3	D+
4	GND

2.5 External Vehicle Remote Antenna Installation

The FM07MG-K is equipped with connectors for additional external antenna (GPS), to install the antenna please perform the following:

1. Remove the rubber cap on the SMA connector before installing the antenna.
2. Align the antenna with the SMA connector and fasten it as following picture.
3. Adjust the position of external antennas.



2.6 Display

The FM07MG-K's display measures 7 inches diagonally, display resolution is 1280 x 720 pixel resolution and bonded with projected capacitive touch.

Chapter 3: Software

This chapter describes how to operate FM07MG-K Vehicle Mount Computer.

3.1 Introduction

This section includes the software and hardware installation, the FM07MG-K configuration, the wireless communication, and some other optional features. Since the FM07MG-K configuration varies by your order, utility programs for its configurations and operations, the examples describe in this section are to be used as a guideline only; therefore, the function configuration of the device might vary.

3.1.1 Operating System

The operating system of the FM07MG-K is Android 13.

3.1.2 About Android 13

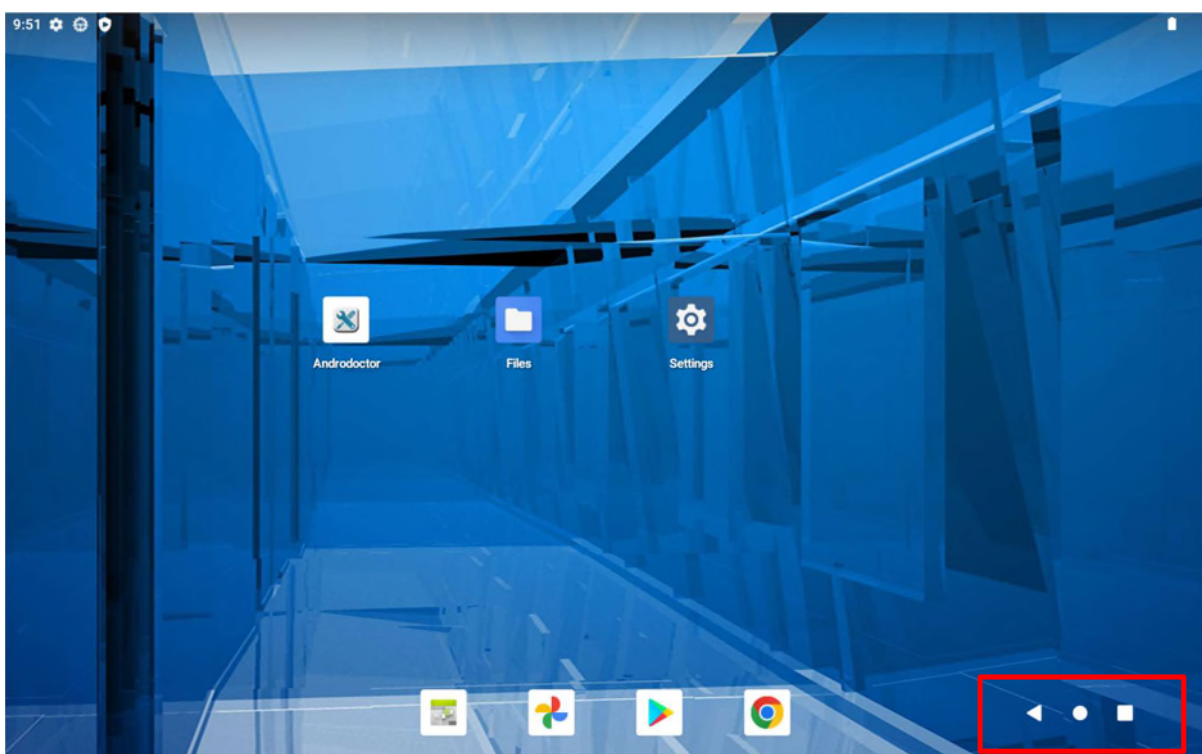
We assume the user is very familiar with various features and options of Android OS. Therefore, this section will describe the specific software and utility programs that related to the device usage and the Android OS.

3.2 Setting up the Device

When you first turn on your device, you'll see a **Welcome screen**. Choose the language you want and touch **Start** or the Start icon. When prompted, you can sign in with your Google Account or create one at that time. You can also choose to skip this step and create one later.

3.2.1 Home Screen

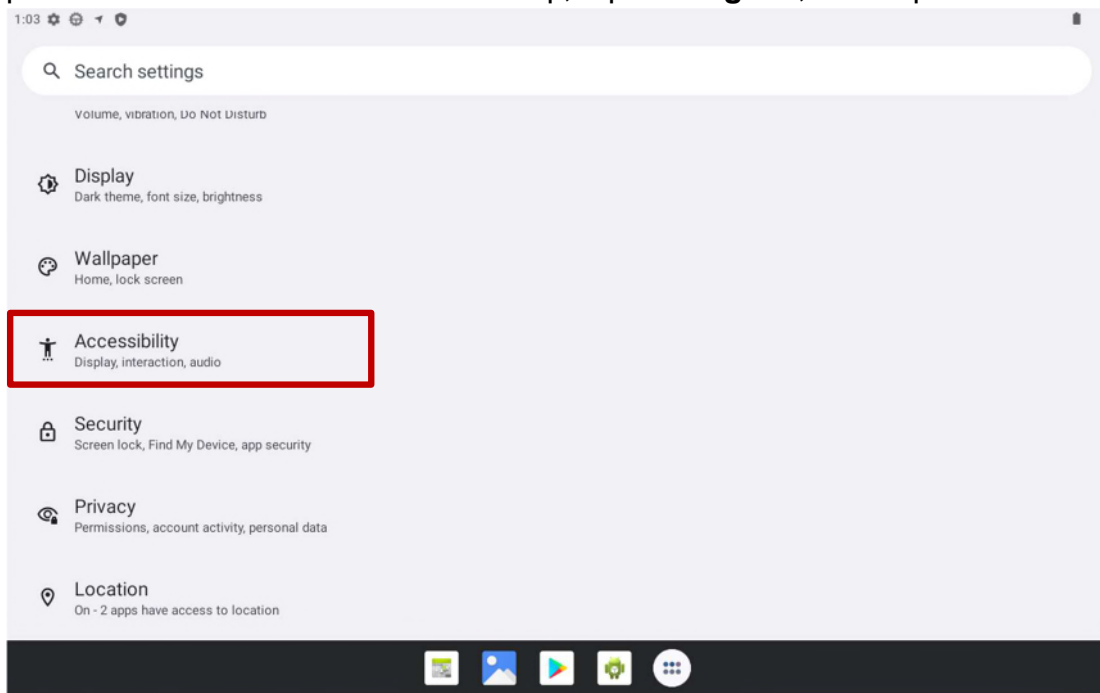
Home screen is the starting point to access all the features on your device. It displays application icons, widgets, shortcuts, and other features. User can personalize the home screen.



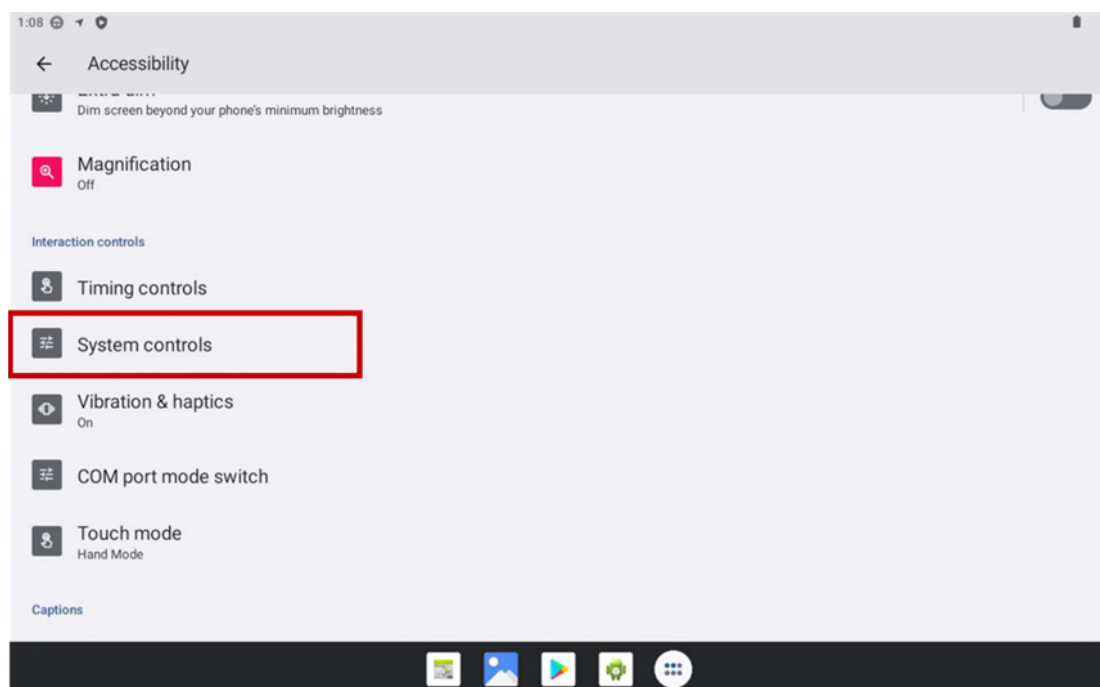
Button	Description
	Back Opens the previous screen you were working in, even if it was in a different app. Once you back up to the Home screen, you can't go back any further.
	Home Returns to the main Home screen. To get suggestions based on the screen you're currently viewing, touch & hold this button.
	Overview Show apps you've used lately and let you switch between them. Double-tap to jump between the current app and the previously used one, and back again.

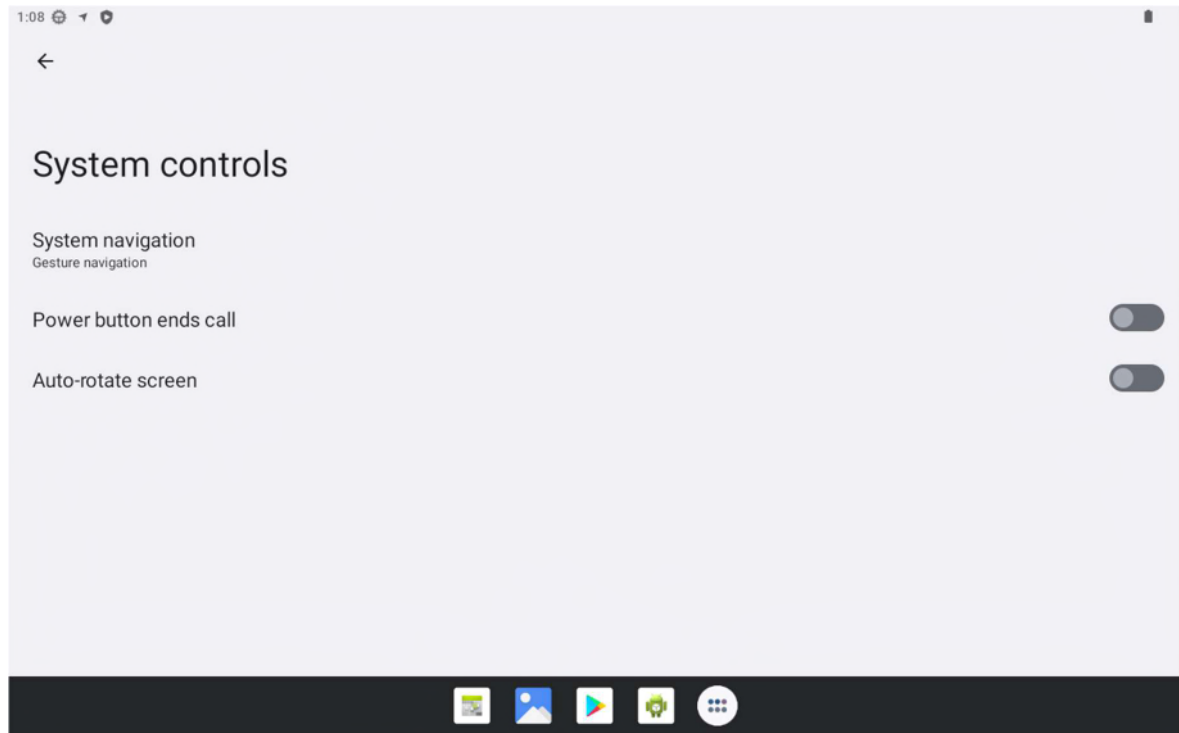
3.2.2 Opening 3-Button Navigation

1. Swipe from the bottom of the main desktop, tap **Settings** , then tap **Accessibility** .

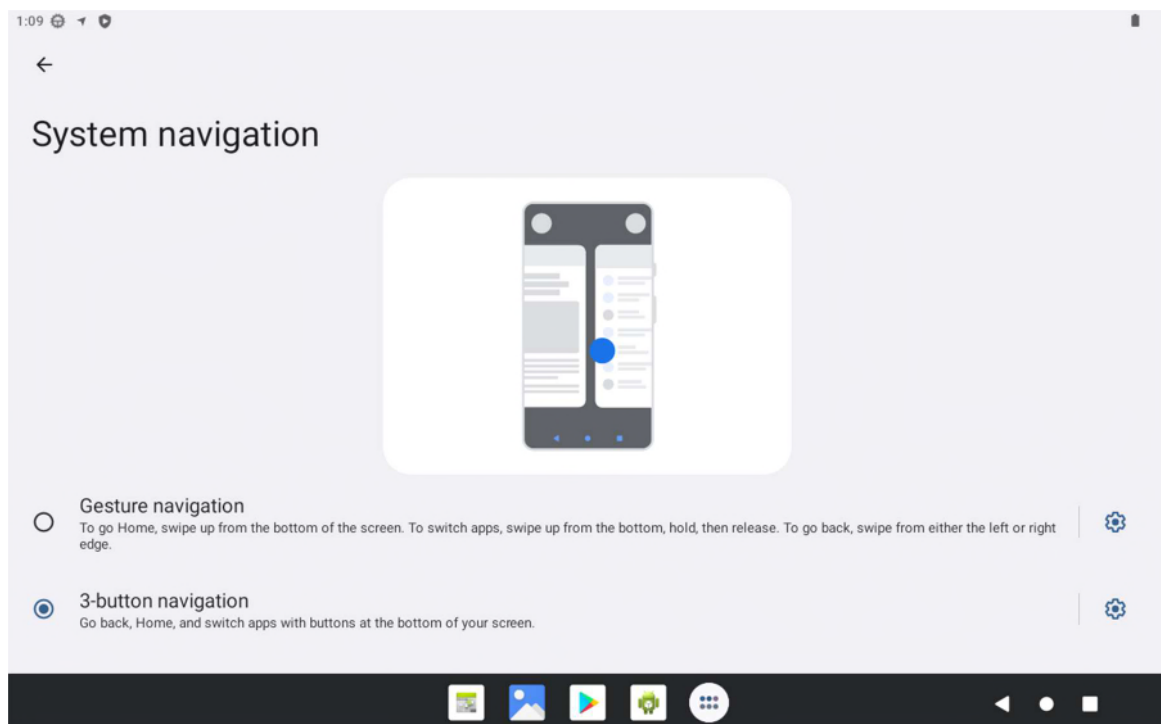


2. Tap **System controls**, and select **System navigation** .





3. In **System navigation**, the user can choose between **Gesture navigation** or **3-Button navigation**. When **3-Button navigation** is selected, the buttons will appear in the bottom-right corner of the screen.

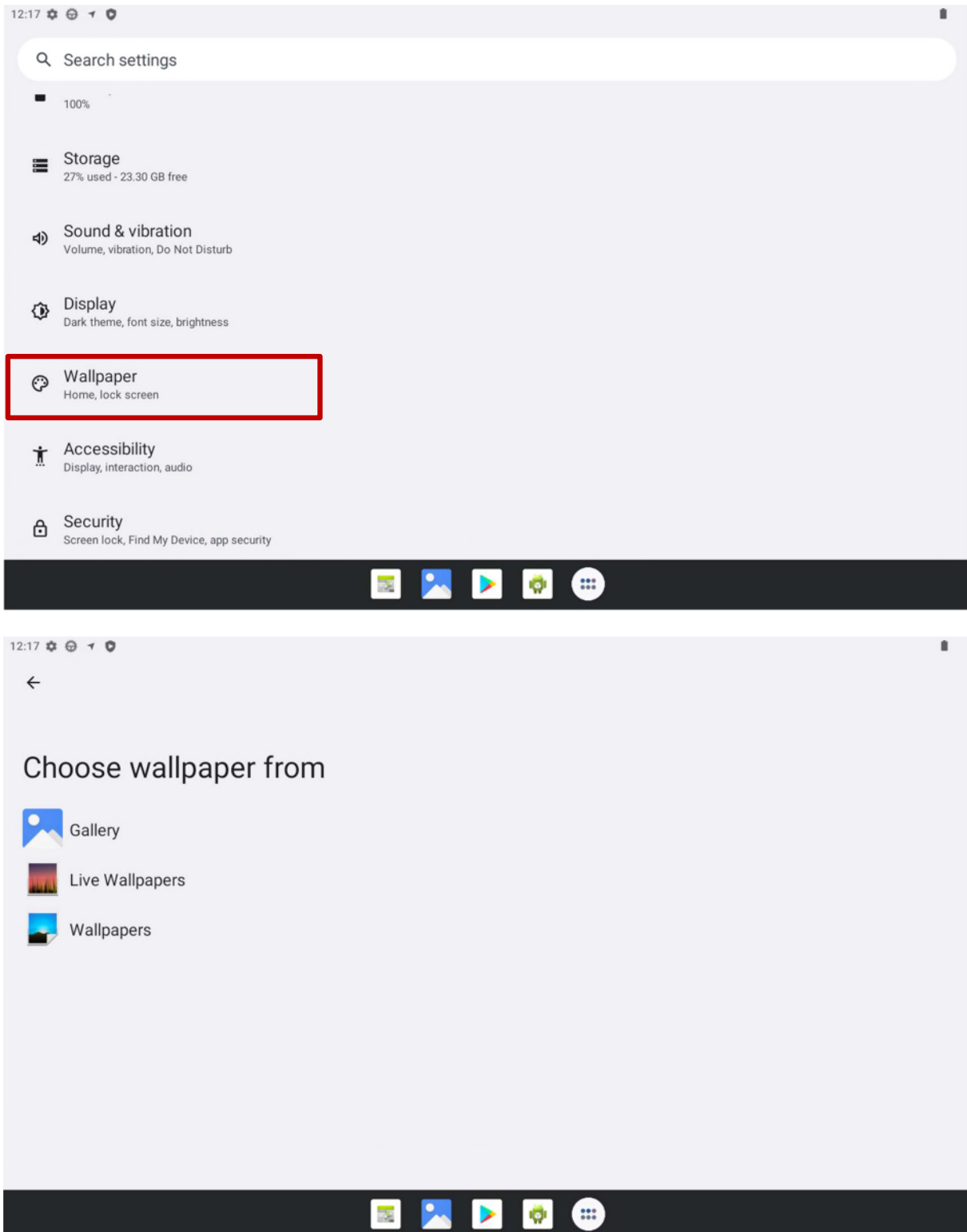


3.2.3 Personalizing the Home Screen

User can add application icons, shortcuts, widgets and other items to any part of any home screen where there is free space. User can also switch the wallpaper.

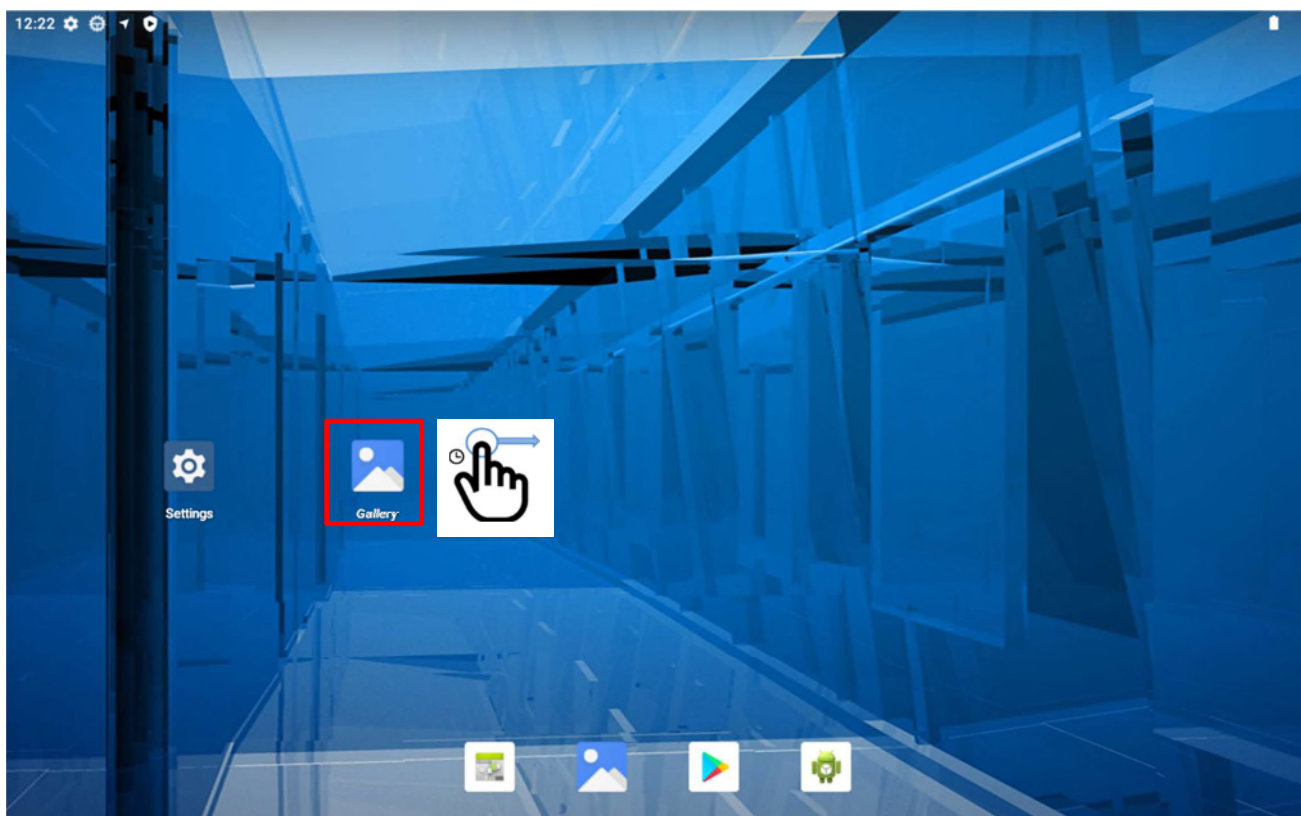
To change wallpaper on the HOME SCREEN:

1. Swipe from the bottom of the main desktop, tap Settings, and then tap wallpaper .
2. In the Wallpaper menu select the location of wallpaper, and then tap the type of item you want to add.

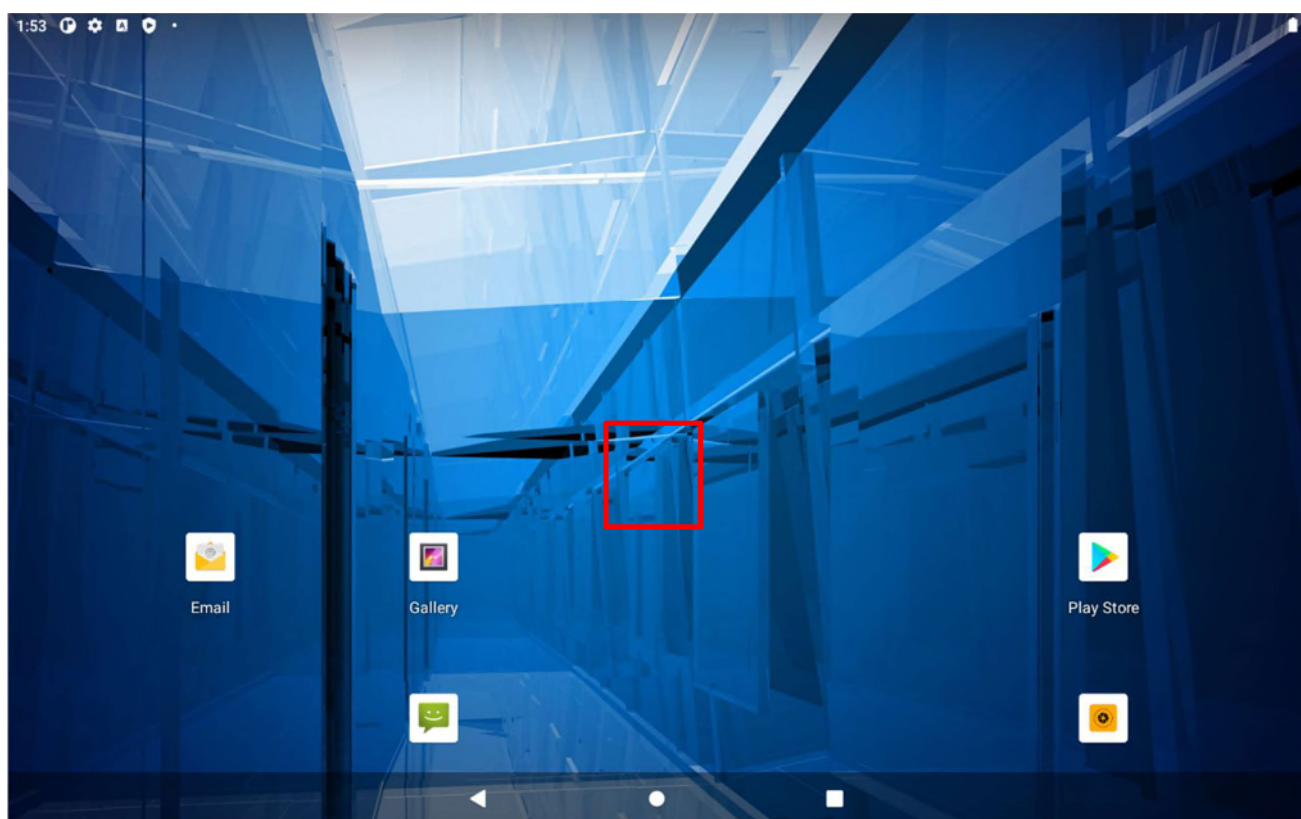


To move an item on the HOME SCREEN:

1. Tap and hold the item you want to move, until it can be moved. Drag it to a new location on the screen.



2. Place the item where you want to put it and lift your finger.



To remove items from the HOME SCREEN:

1. Tap and hold the item you want to remove. The launcher icon will show **Remove** on the top of the screen.
2. Drag the item you want to remove to the Remove icon.
3. When the icon turns red, release your finger.

3.3 Status and Notification Icons

The status bar appears at the top of every screen. On the left are notification icons and on the right are status icons, along with the current time.



3.3.1 Notification Icons

Pull down from the left top of the screen to get the notifications area. The following icons indicate that you have received notification.

	New email message		Incoming call
	New text or multimedia message		Missed call
	Alarm is set		Speakerphone is activated
	Upcoming event		Phone microphone is muted
	Data is syncing		Downloading data
	Problem with sign-in or sync		Phone is connected via USB cable
	A screenshot is captured		

3.3.2 Status Icons

Pull down from the right top of the screen to get the notifications area. The following icons indicate the status of your device, for example if users are connected to a Wi-Fi network that is not connected to the internet, the network icons are appears in white color.

Status icons that appear in the status bar are as follows:

	Connected to GPRS mobile network		Bluetooth is on
	Connected to 1xRTT mobile network		Connected to a Bluetooth device
	Connected to EDGE mobile network		No SIM card installed
	Connected to 3G mobile network		Vibrate mode
	Connected to 4G mobile network		Ringer is silenced
	Mobile network signal strength		Battery is very low
	Searching for a network signal		Battery is low
	No signal		Battery is partially drained
	Connected to a Wi-Fi network		Battery is full
	Roaming		Battery is charging
	Airplane mode		Receiving location data from GPS

3.4 Control Panel

3.4.1 Using the Touch Screen

The touchscreen supports the core gestures for Android.

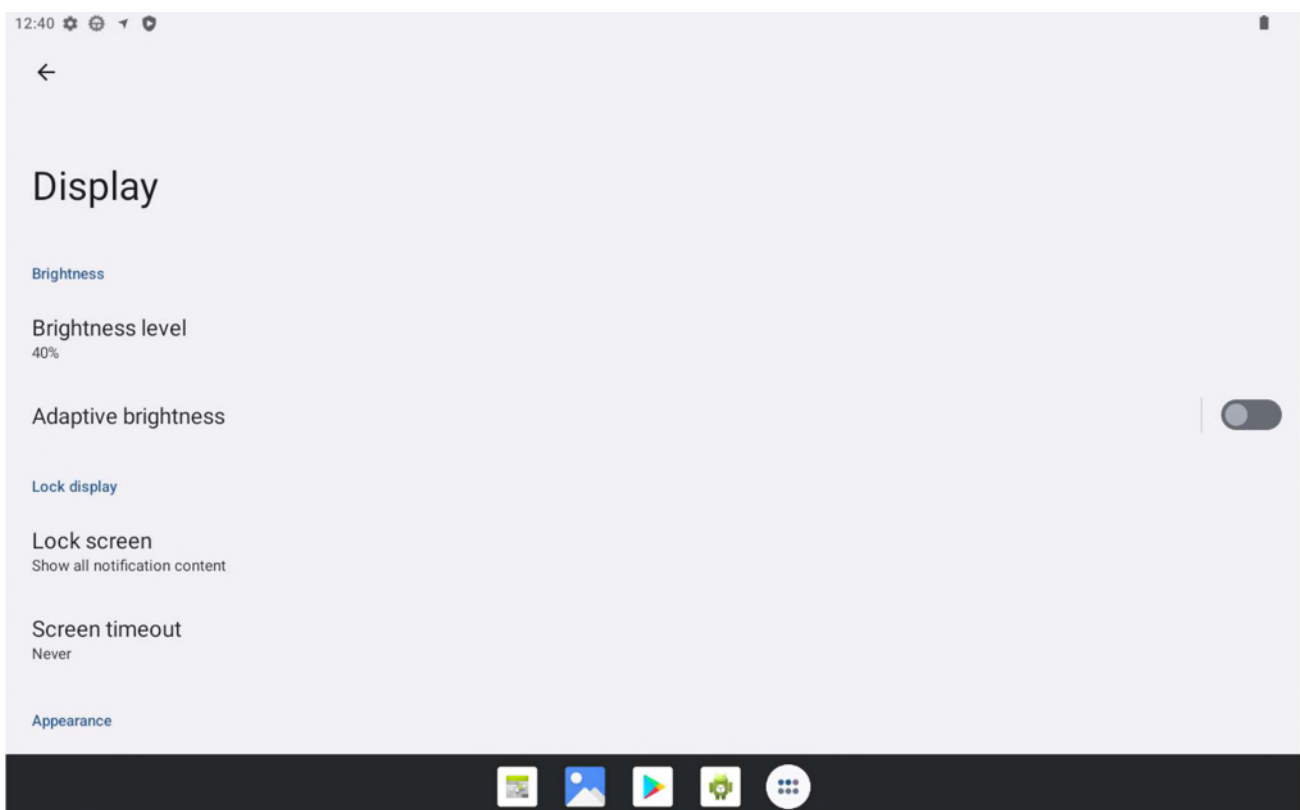
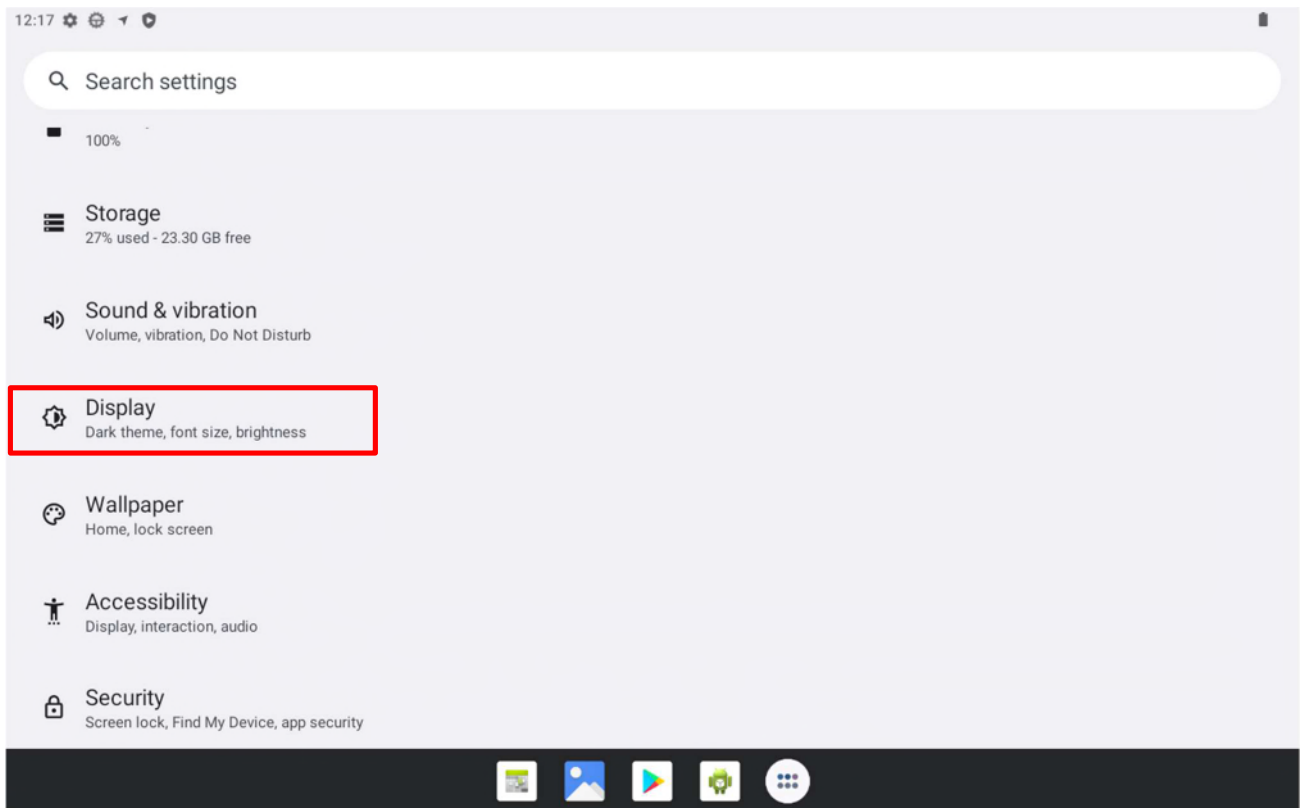
Gesture	Action	Description
Tap		To select or activate something
Tap & Hold		Touch and hold an item on the screen by touching it and not lifting your finger until it responds
Touch, Hold & Drag		Touch and hold an item for a moment and then without lifting your finger, move your finger on the screen until you reach the target position. i.e. moving the apps around the home screen
Swipe or Slide		Quickly move the finger across the surface of the screen. i.e. slide a lock screen to open the lock
Double-tap		Tap quickly twice on a webpage, screen, or App to zoom
Scale		Place two fingers on the screen and pinching them together

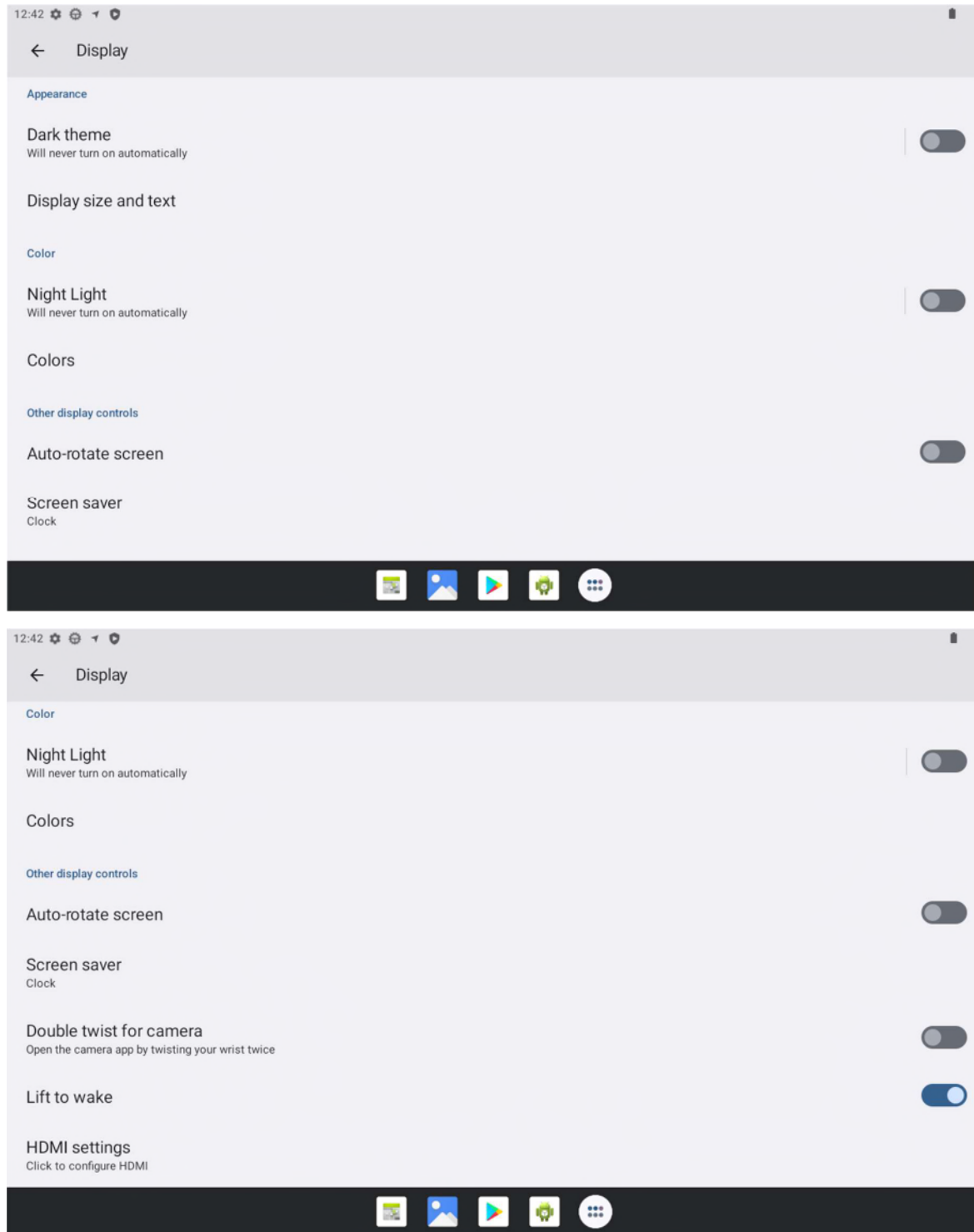
3.4.2 System Settings

3.4.2.1 Display

Use the display settings to configure brightness and other screen settings.

1. Swipe from the bottom of the main desktop, tap **Settings** , and then tap **Display** .





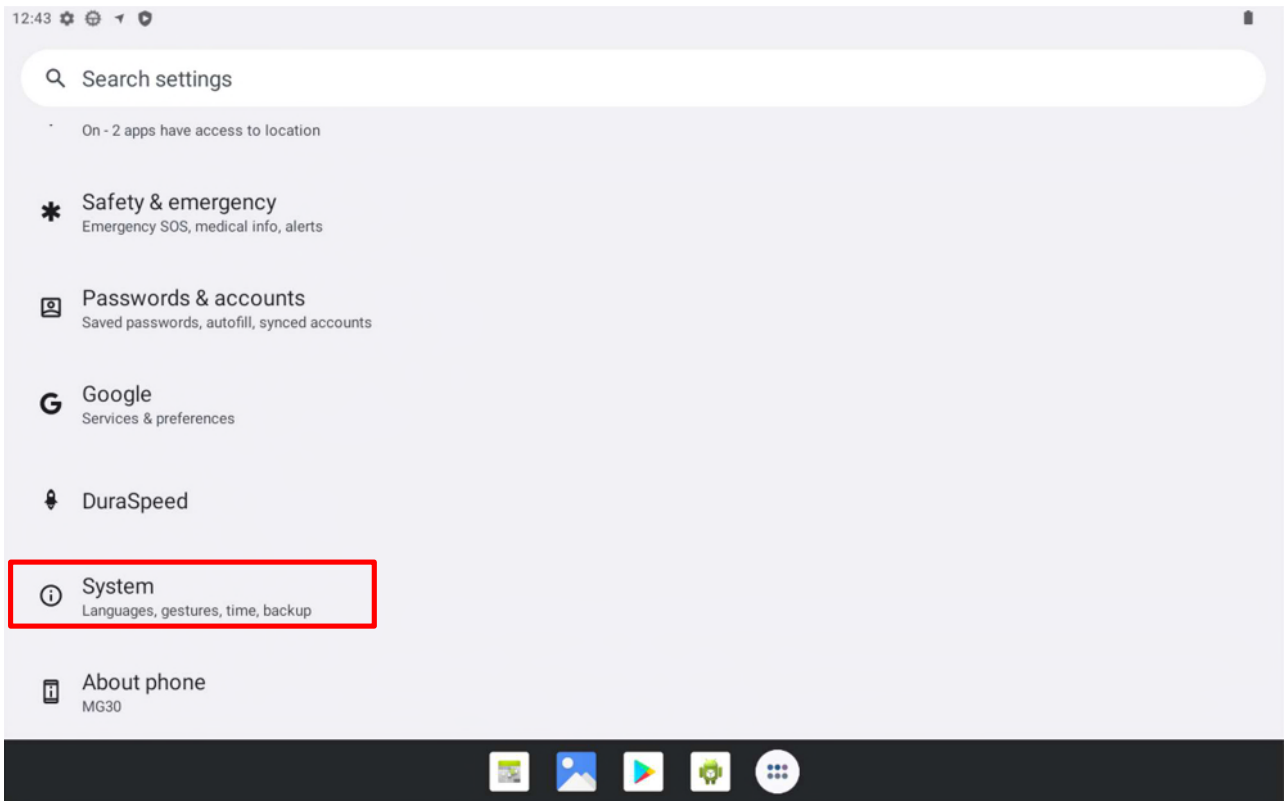
Display

- **Brightness level** – for adjusting the brightness of the screen.
- **Dark theme** – uses black background to help keep battery alive longer on some screens.
- **Night light** – tints your screen amber. This makes it easier to look at your screen or read in dim light.
- **Screen timeout** – to set up the device's sleep mode after the specified period of inactivity
- **Font size** – Make the text on screen smaller or larger
- **Display size** – Make the items on your screen smaller or larger. Some apps on your screen may change position.
- **Screen saver** – to control what happens when the HMI is docked and/or sleeping, turn screen saver on
- **Lock screen** – to control all notification content

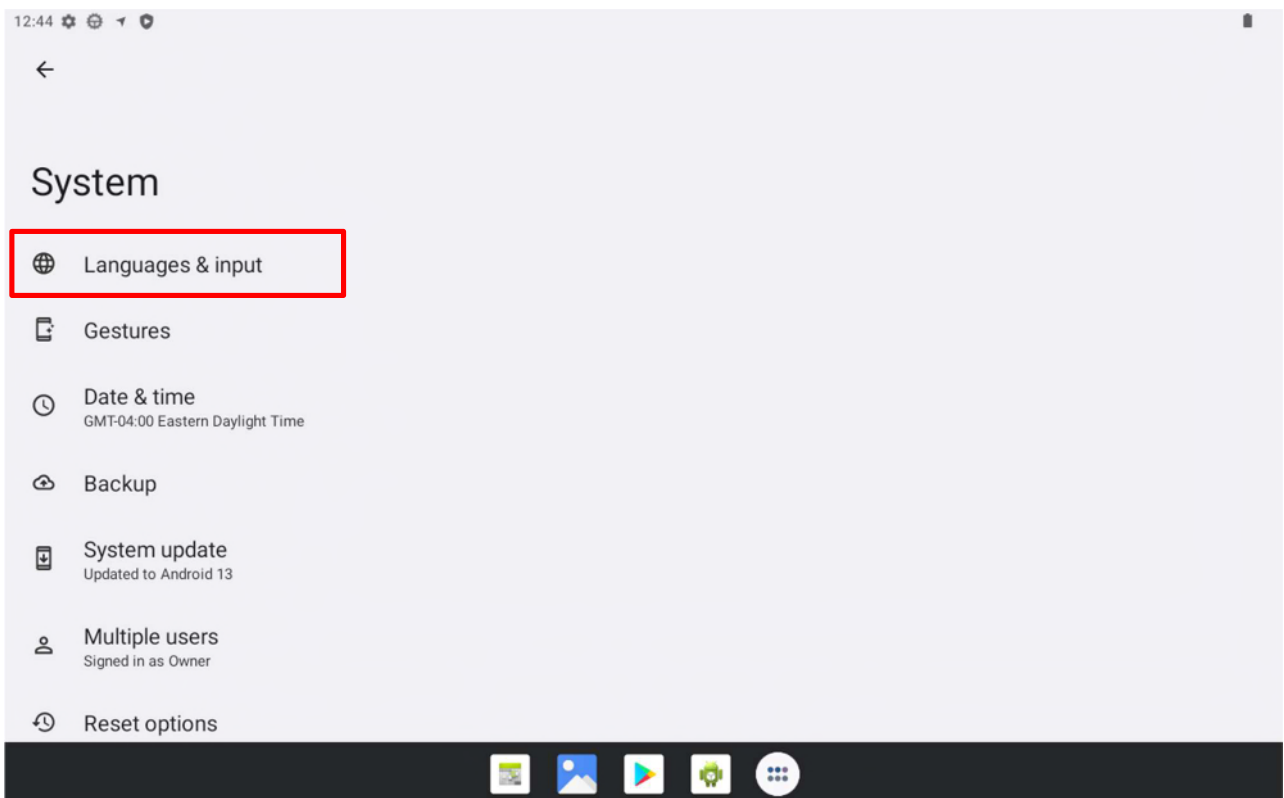
3.4.2.2 Region and Language

Use the Language & keyboard settings to select the language for the text on your HMI and for configuring On-Screen Keyboard, including words that you have added to its dictionary.

1. Swipe from the bottom of the main desktop, tap **Settings** , and then tap **System** .

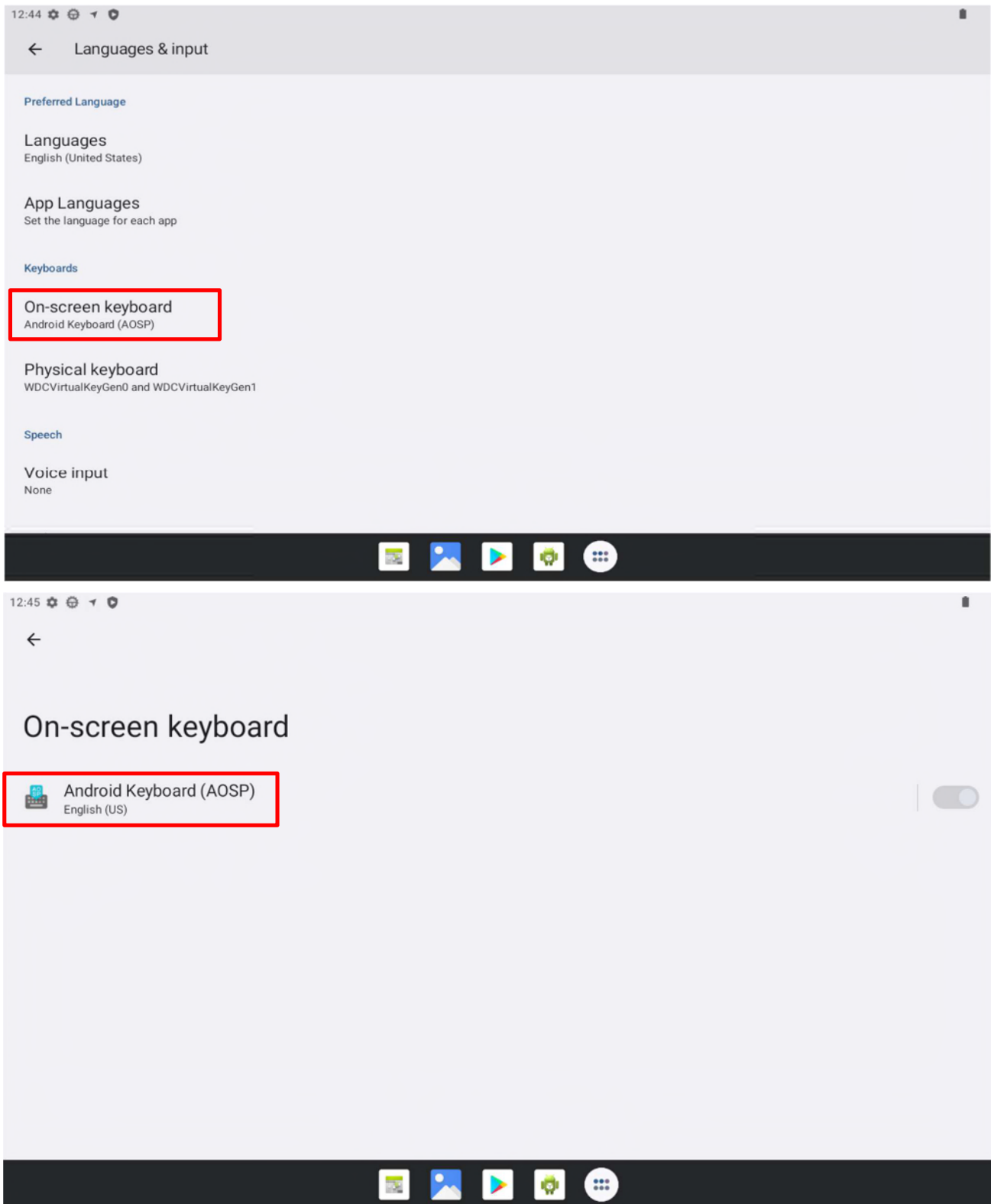


2. In the **Personal** tab, select **Language & Input** .



- **Keyboard & Input Methods**

- **On-screen Keyboard** – shows default Android Keyboard (AOSP).
- **Physical Keyboard** – allows the user to apply physical keyboard settings if connected.



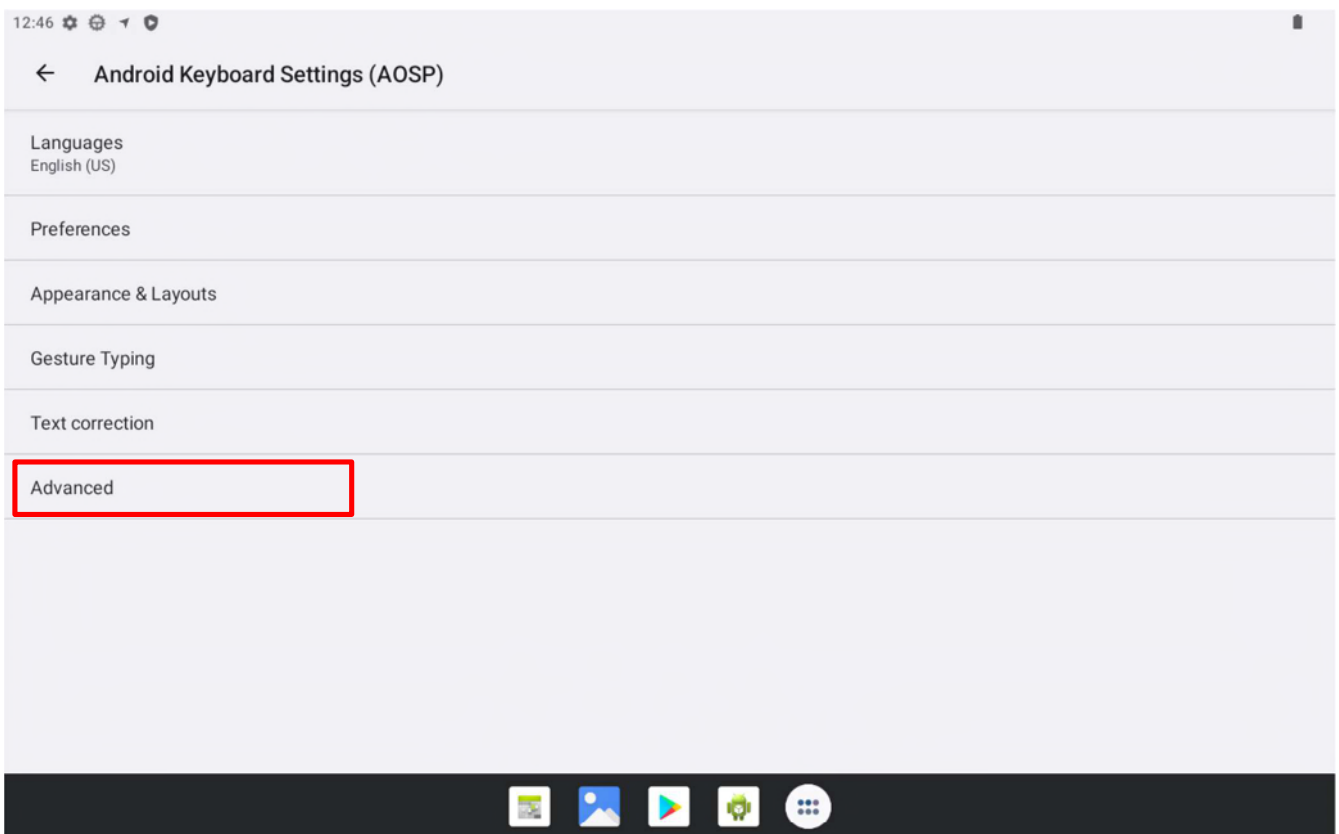
- **Appearance & Layouts**

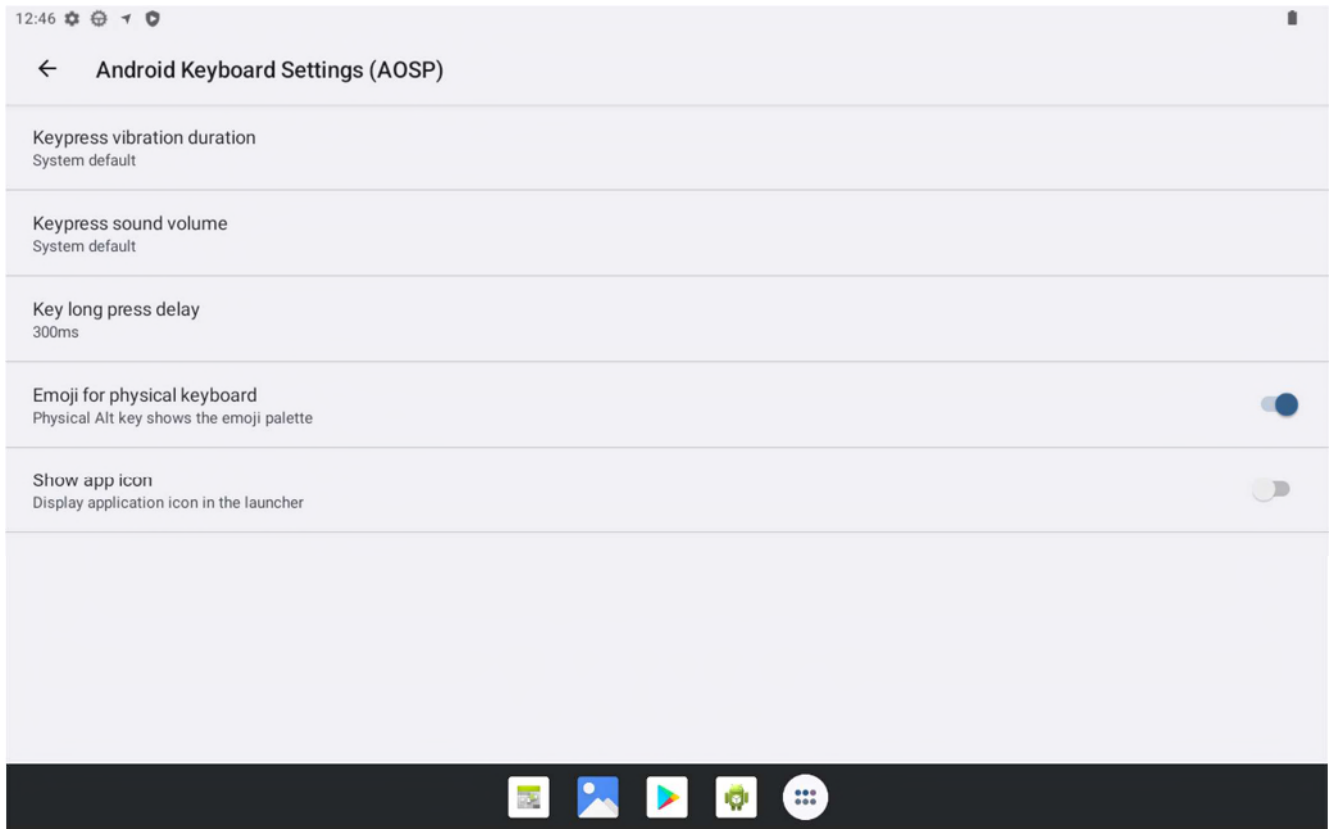
- **Theme** – to select the theme of layout.
- **Custom input styles** – user can select custom input style, such as QWERTY keyboard.
- **Enable split keyboard** – toggle to activate split keyboard layout.
-

- **Text Correction**

- **Personal dictionaries**
- **Add-on dictionaries**
- **Block offensive words** – disable suggesting potentially offensive words
- **Auto-correction** – spacebar and punctuation automatically correct mistyped words.
- **Show correction suggestions** – display suggested words while typing.
- **Personalized suggestions** – learn from your communications and typed data to improve suggestions.
- **Suggest contact names** – use names from Contacts for suggestions and corrections.
- **Next-word suggestion** – use previous word in making suggestion.

- **Advanced**





- ***Keypress vibration duration***
- ***Keypress sound volume***
- ***Key long press delay***
- ***Emoji for physical keyboard***
- ***Show app icon***

Changing the Keyboard Language

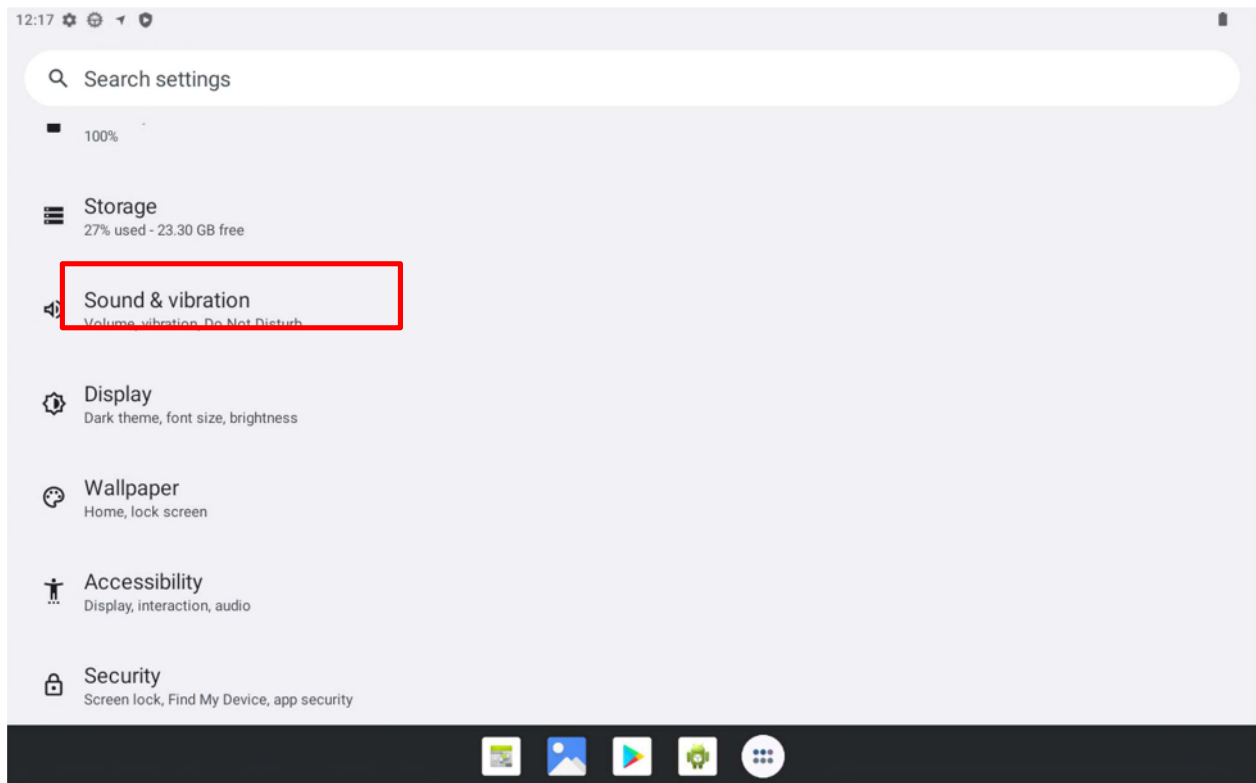
The current keyboard language is displayed on the Space key and user can switch languages.

1. Tap and hold the space key.
2. Without lifting the finger, slide it to the left or right until the language you want to use appears in the center of the small window above the Space Key.
3. Lift the finger to change the keyboard language.

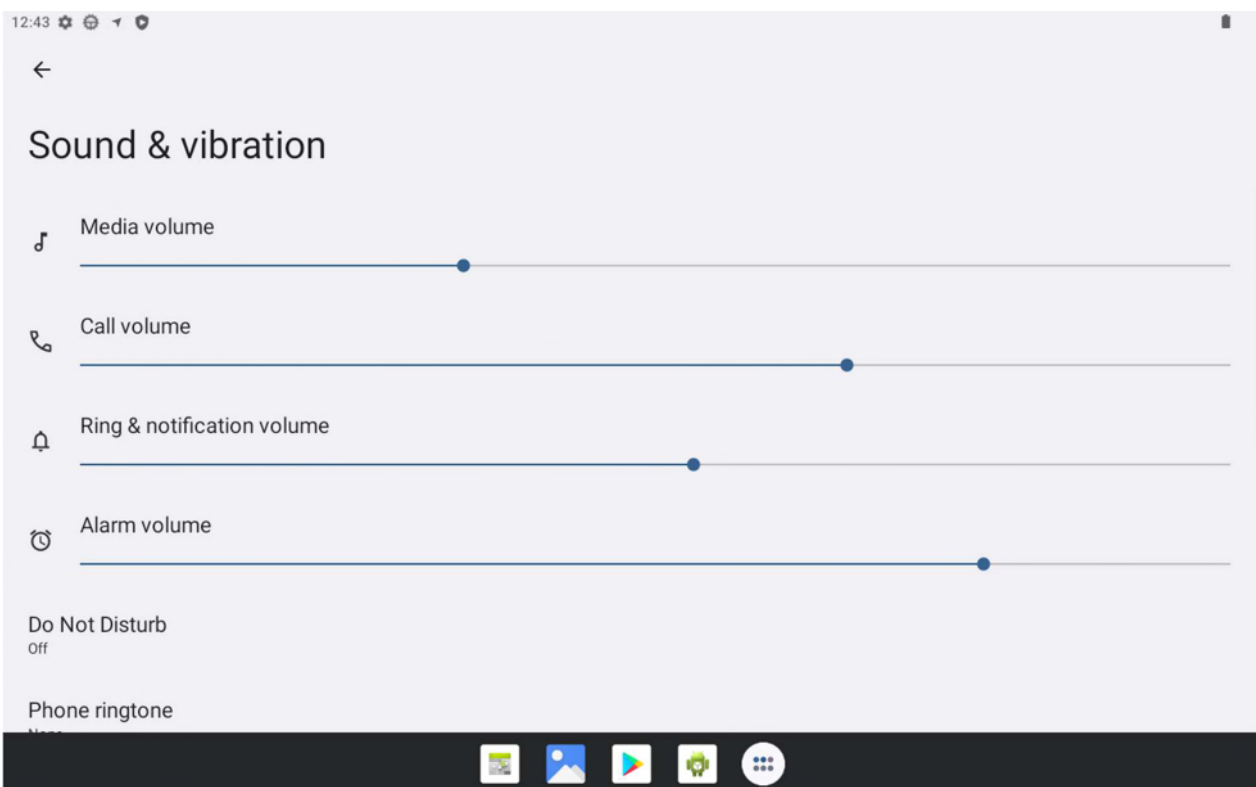
3.4.2.3 Sound

Use the sound settings to configure how and at what volume the HMI rings, vibrates or alerts user in other ways when user receive a call, receive a notification or an alarm sound.

1. Swipe from the bottom of the main desktop, tap **Settings** , and then tap **Sound** .



2. In the **Sound** user can select Media volume, Call volume, ring volume, alarm volume and other sound settings.



3.5 Winset

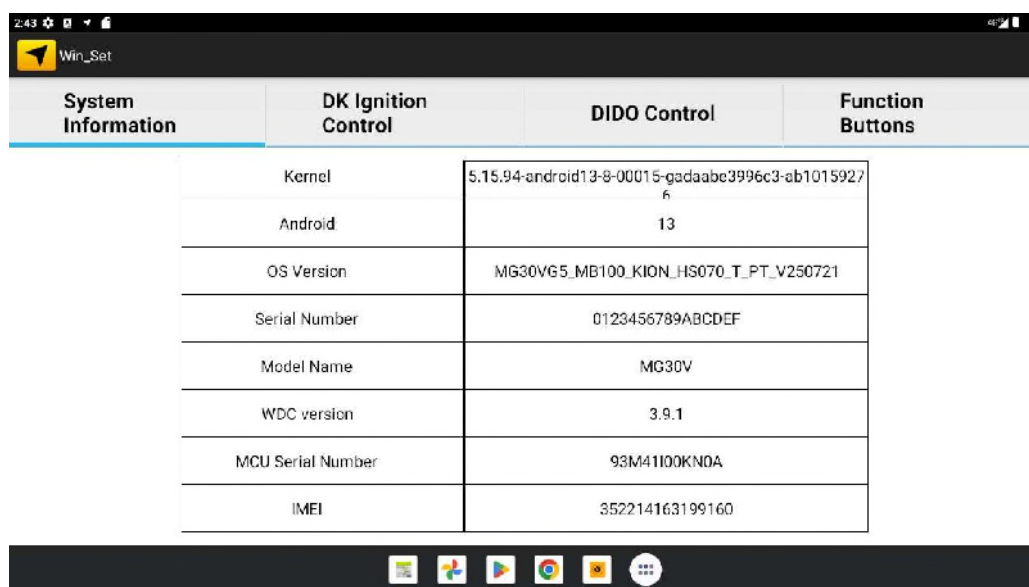
Winset provides quick access to the tablet's functions and features, such as setting up shortcuts, using camera, powering on/off built-in devices, programming function key, and changing power management.

To launch the Winset, double-tap on **Winset Utility Icon** . Operations and functions on each menu options is explained in detail in the coming section.

Winset Interface:

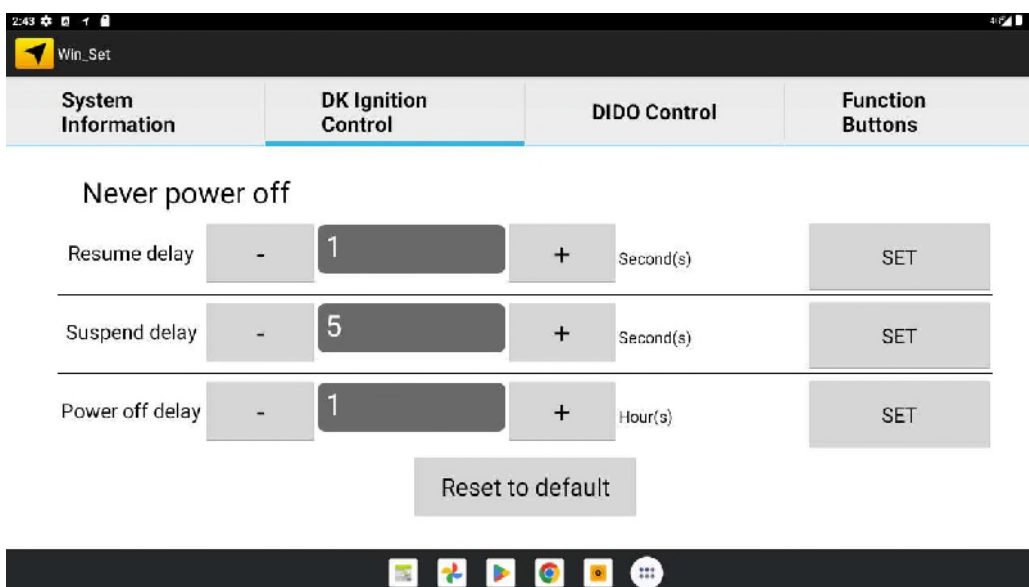
Item	Description
System Information	Provides system information such as Winset version, OS version, serial number and model name. You can also set up password here.
Ignition Control	Setup the timing delay of turning On/ Off/ Hard Off.
DIDO Controller	Set up digital input/ output controller.
Function Buttons	Set up function buttons functions.

3.5.1 System Information



System Information	DK Ignition Control	DIDO Control	Function Buttons
Kernel	5.15.94-android13-8-00015-gadaabe3996c3-ab1015927		
Android	13		
OS Version	MG30VG5_MB100_KION_HS070_T_PT_V250721		
Serial Number	0123456789ABCDEF		
Model Name	MG30V		
WDC version	3.9.1		
MCU Serial Number	93M41100KN0A		
IMEI	352214163199160		

3.5.2 Ignition Control



Never power off

Resume delay Second(s)

Suspend delay Second(s)

Power off delay Hour(s)

Setting	Default Setting	Description
Resume delay	1 second	When the system is suspended via ignition key, the system will delay 1 second to resume.
Suspend delay	5 seconds	When the system is powered on via ignition key, the system will delay 5 seconds to suspend.
Power off delay	1 hour	When the system is powered on via ignition key, the device will delay 1 hour to shut down.
Reset to default	-	Resets the ignition settings back to the default.

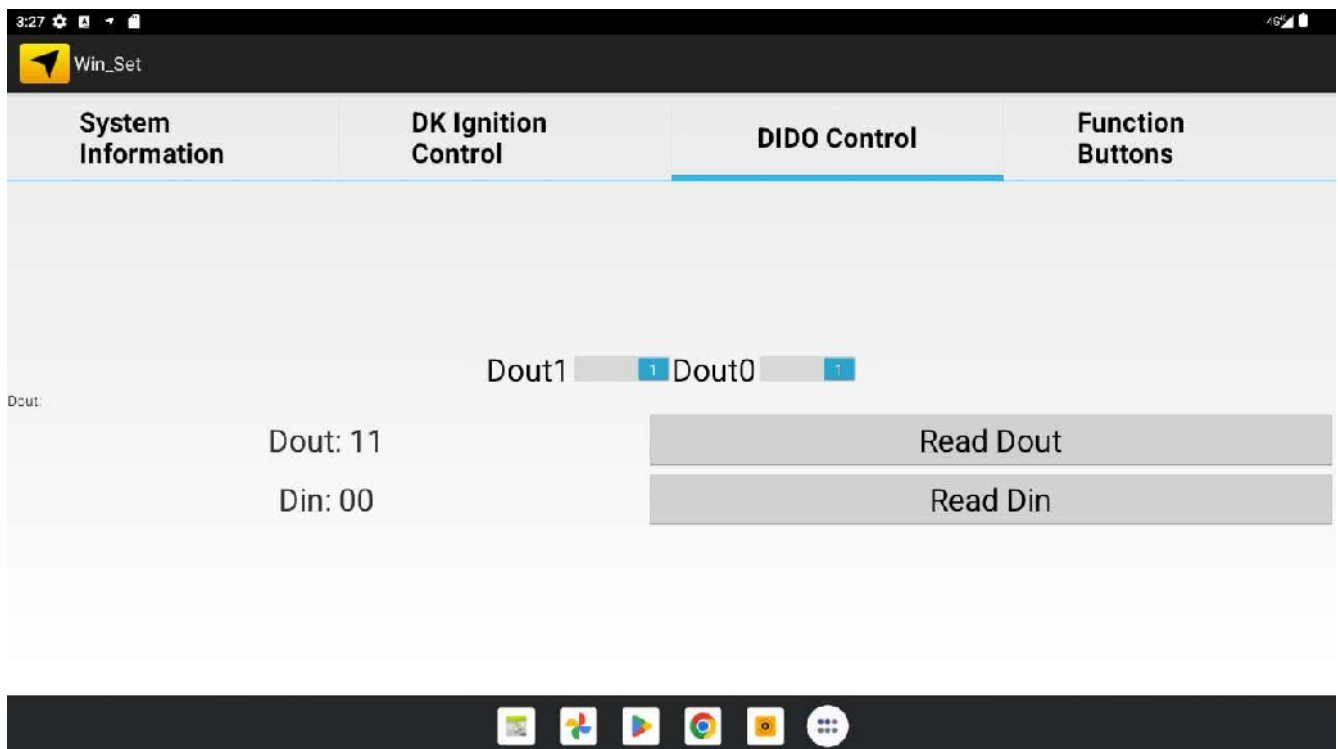


Note: If you don't plan to use the ignition feature connect the yellow wire to the vehicle's positive power source.

3.5.3 DIDO Controller

When the DIDO connector is connected to other devices:

1. Depending on the need, slide the **Dout1**, and/or **Dout0** to the right to open to show the 1 mark. Then press **Read Dout** to check the connection. If the number 1 is displayed next to **Dout:** there is a power supply. Example, if all **Dout** buttons are slid open, it will show 0011.
2. When the connected device is powered, the FM07MG-K can receive power. Press **Read Din** to confirm the received electricity. If the number 1 is displayed next to **Din:** it receives electricity.



3.5.4 Function Buttons

To set function keys open **Winset** . In **Function Buttons** window of the **F1** click **NEW** to open the drop-down menu of function keys. Choose the function key and then select a **Default application** that will be opened by pressing on the function key you have selected. Press **DEL** to reset the function key to previous settings.

2:44

 Win_Set

4G

System Information	DK Ignition Control	DIDO Control	Function Buttons
Save Reset Exit	F1	相機	NEW DEL
	F2	設定	NEW DEL
	F3	檔案	NEW DEL
	F4	Chrome	NEW DEL
	F5	Data Capture	NEW DEL



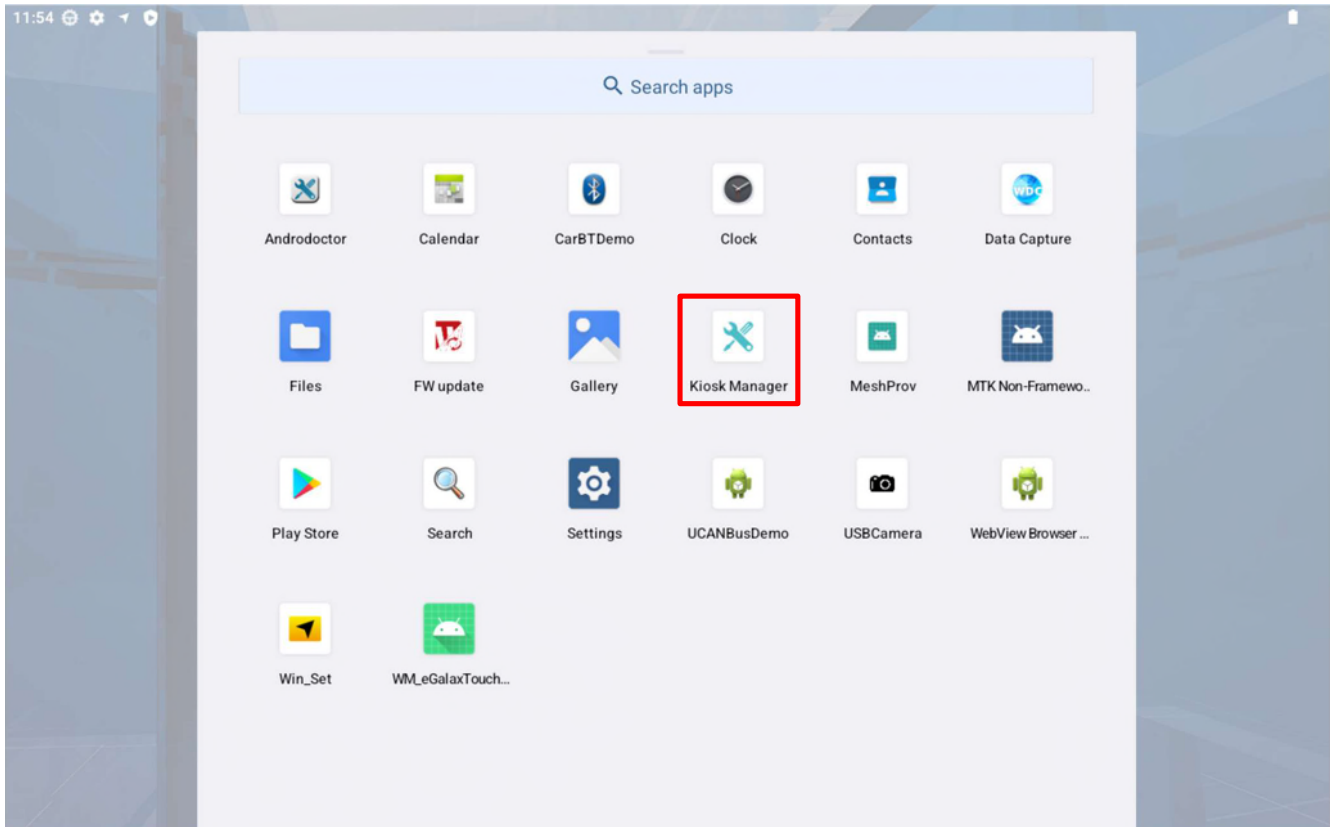


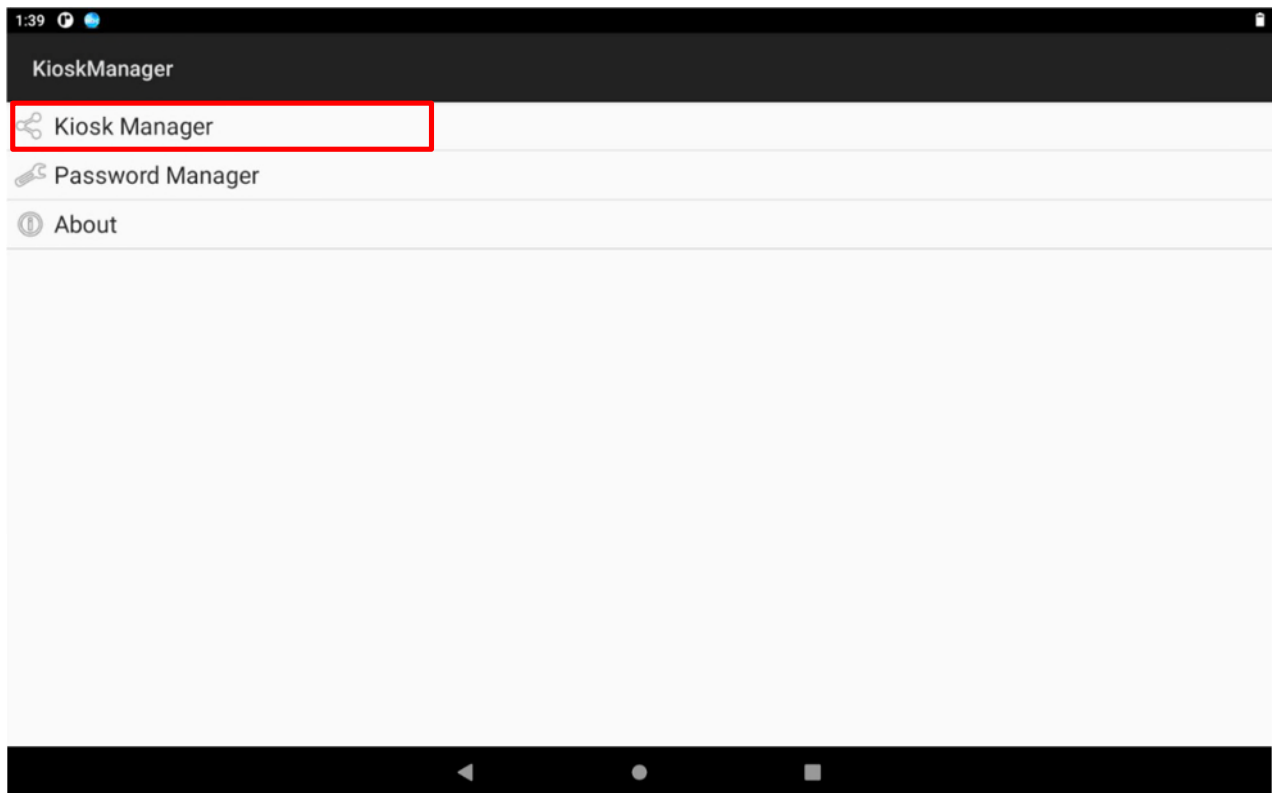
3.6 Winmate Kiosk Manager

The FM07MG-K vehicle mount computer comes with preinstalled APP named Winmate® Kiosk Manager (WKM). This application lets the device manager to lock the launcher. When the launcher is locked the user can only use one application assigned by the device manager.

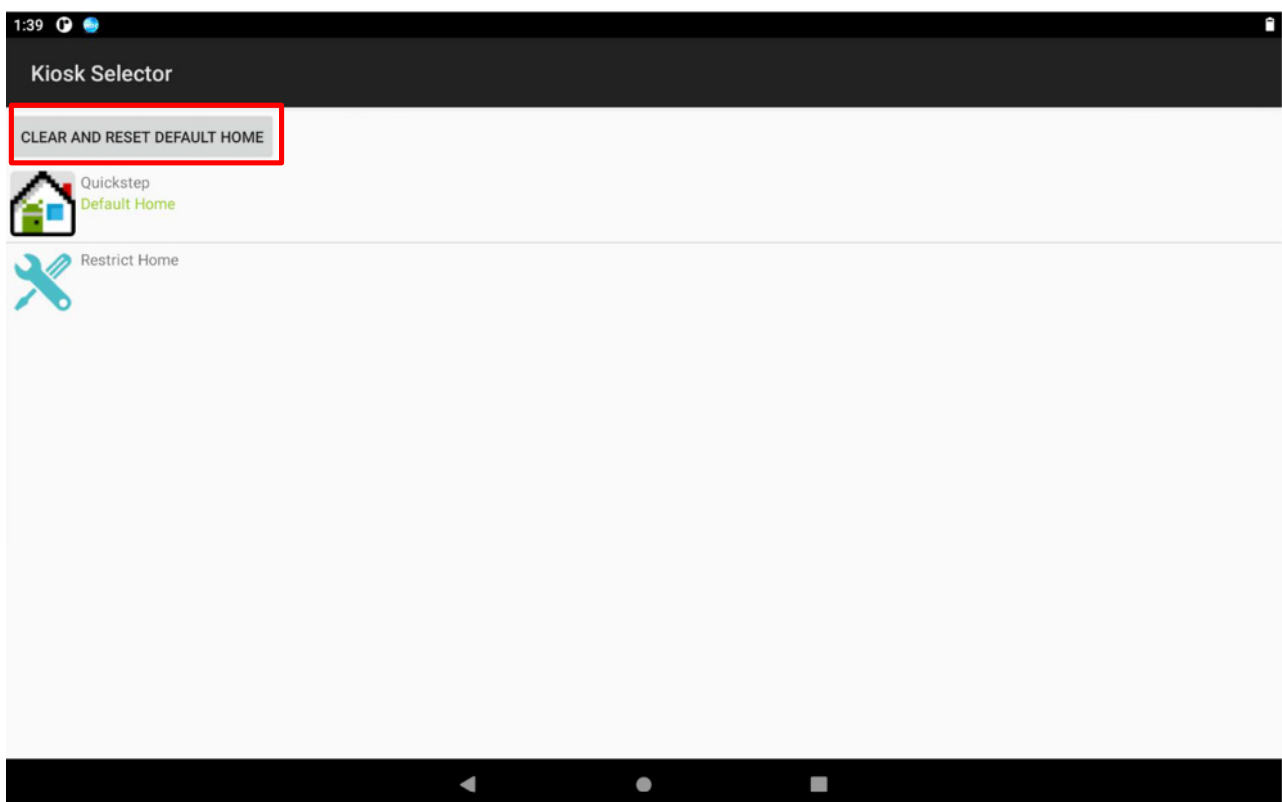
3.6.1 Lock Applications Launcher

1. In the main APPS window, select the **Kiosk Manager** . Select **Kiosk Manager** to start your settings. Go to **Password Manager** and set your own password for this APP. The default password is “password”.

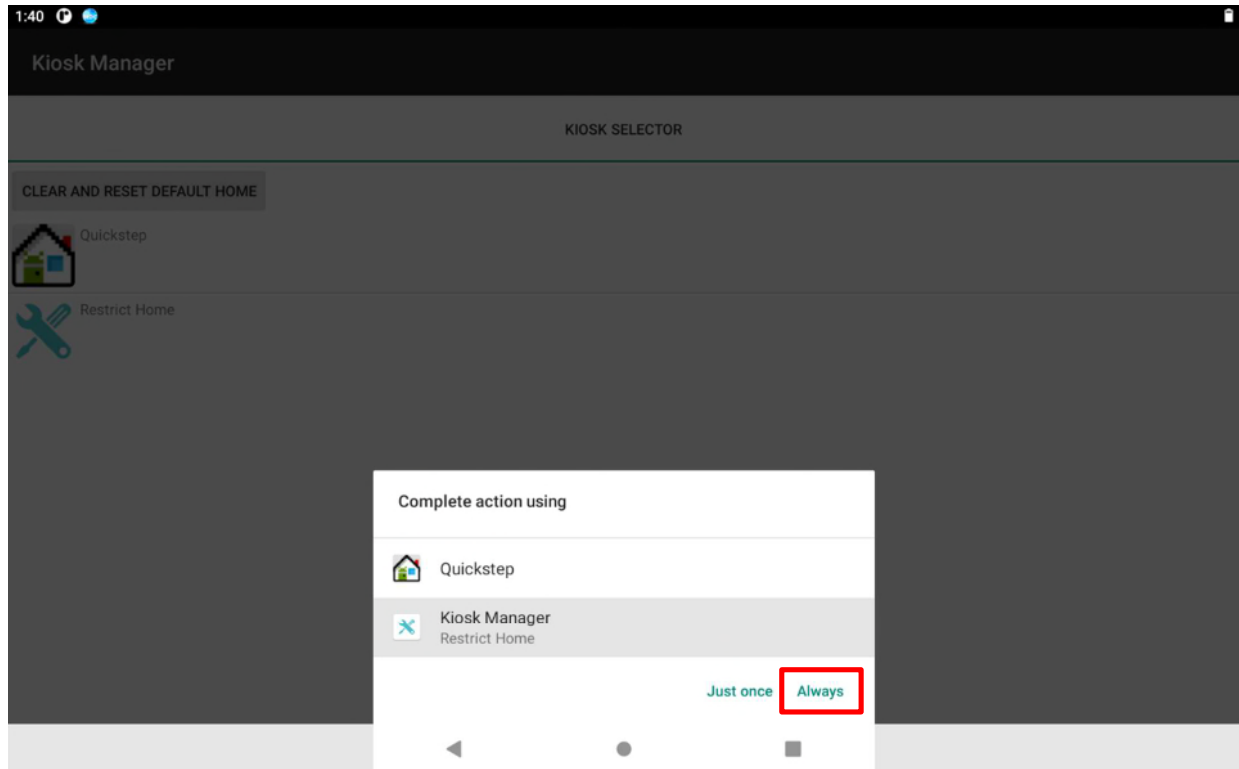




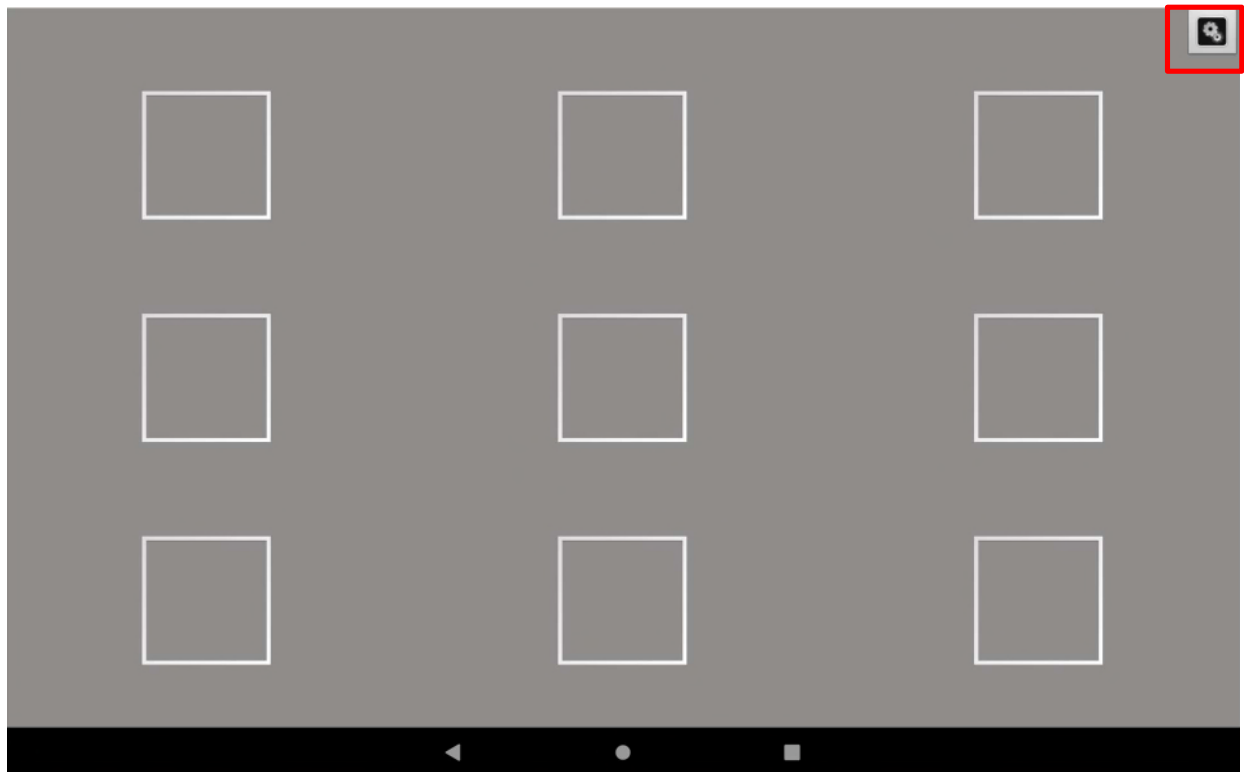
2. Press **Clear and Reset Default Home**.



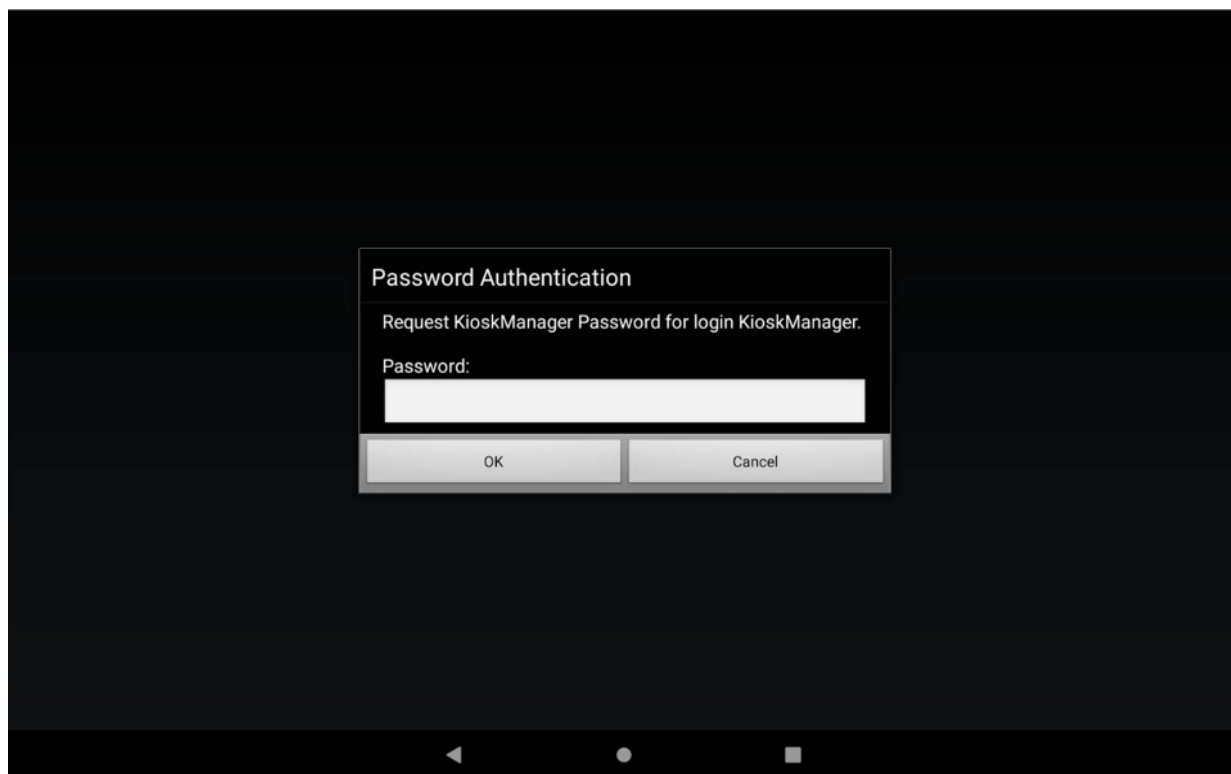
3. Select **Restrict Home** then **Always**. The system will automatically be locked on selected Apps.



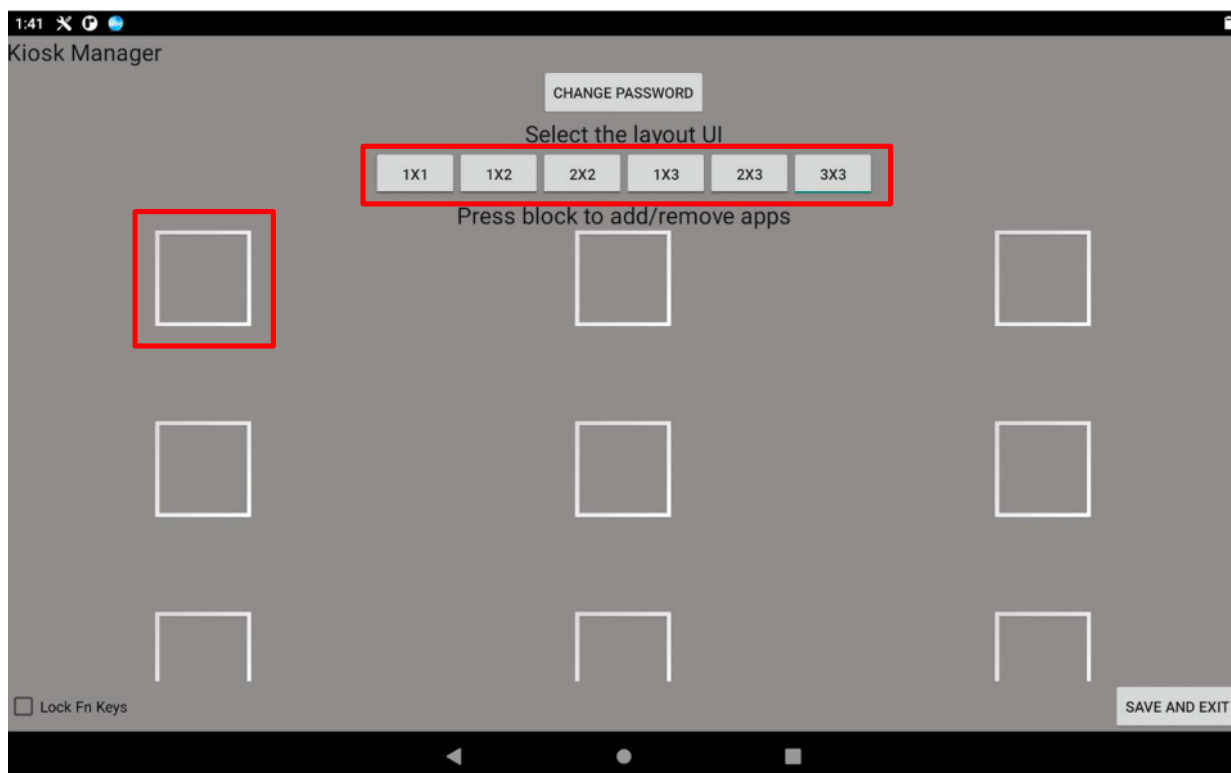
4. Click the gear icon on the upper right corner. Then choose **Change UI**.

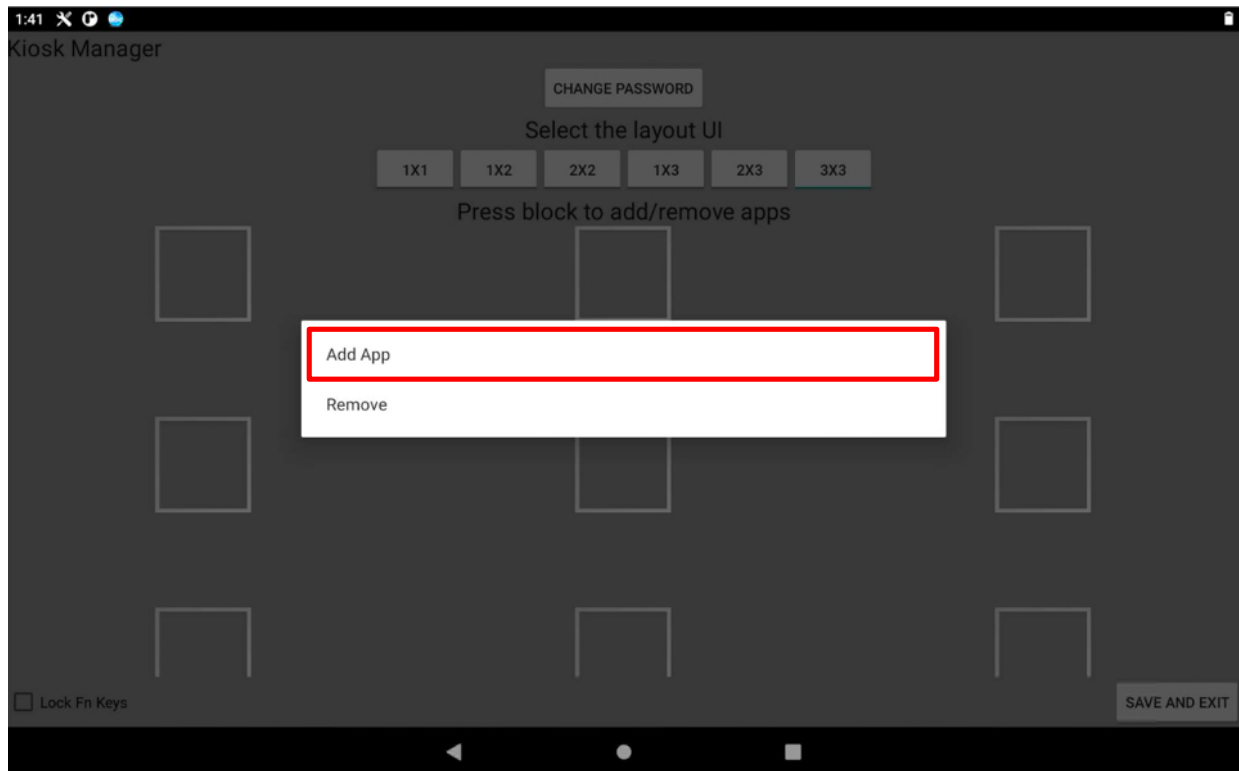
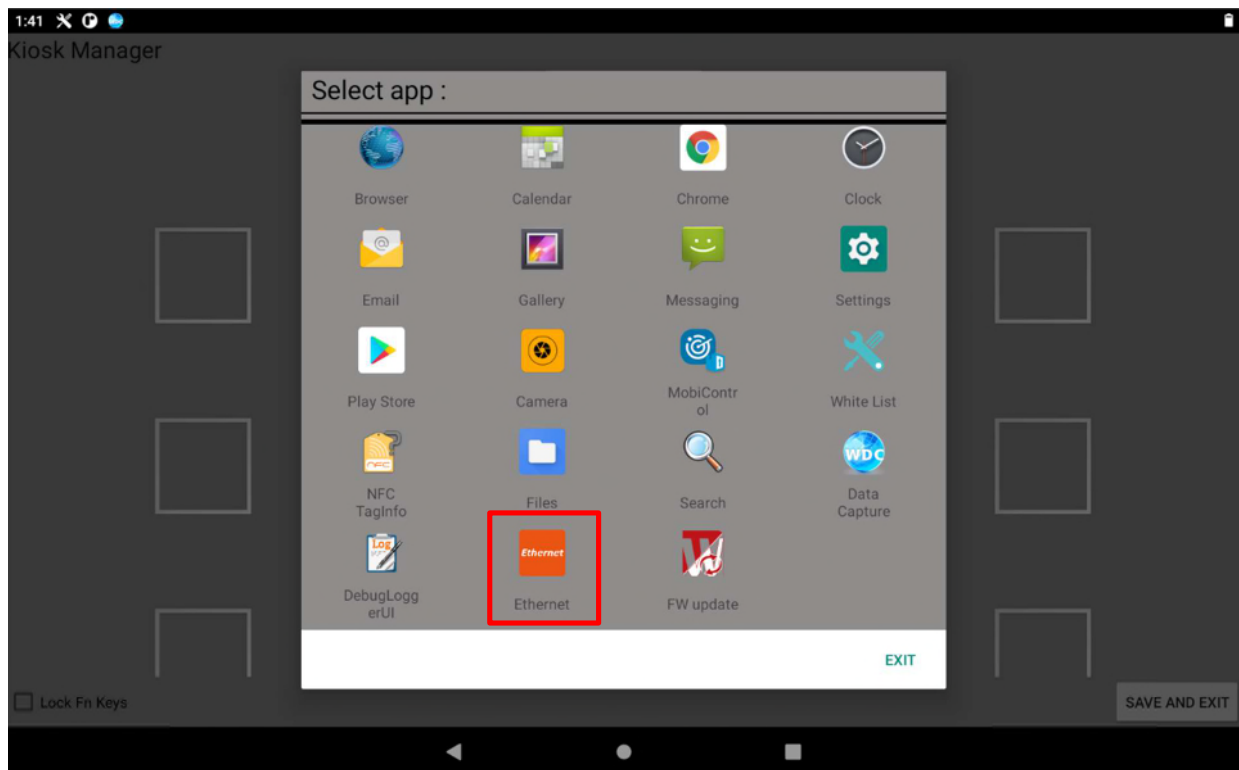


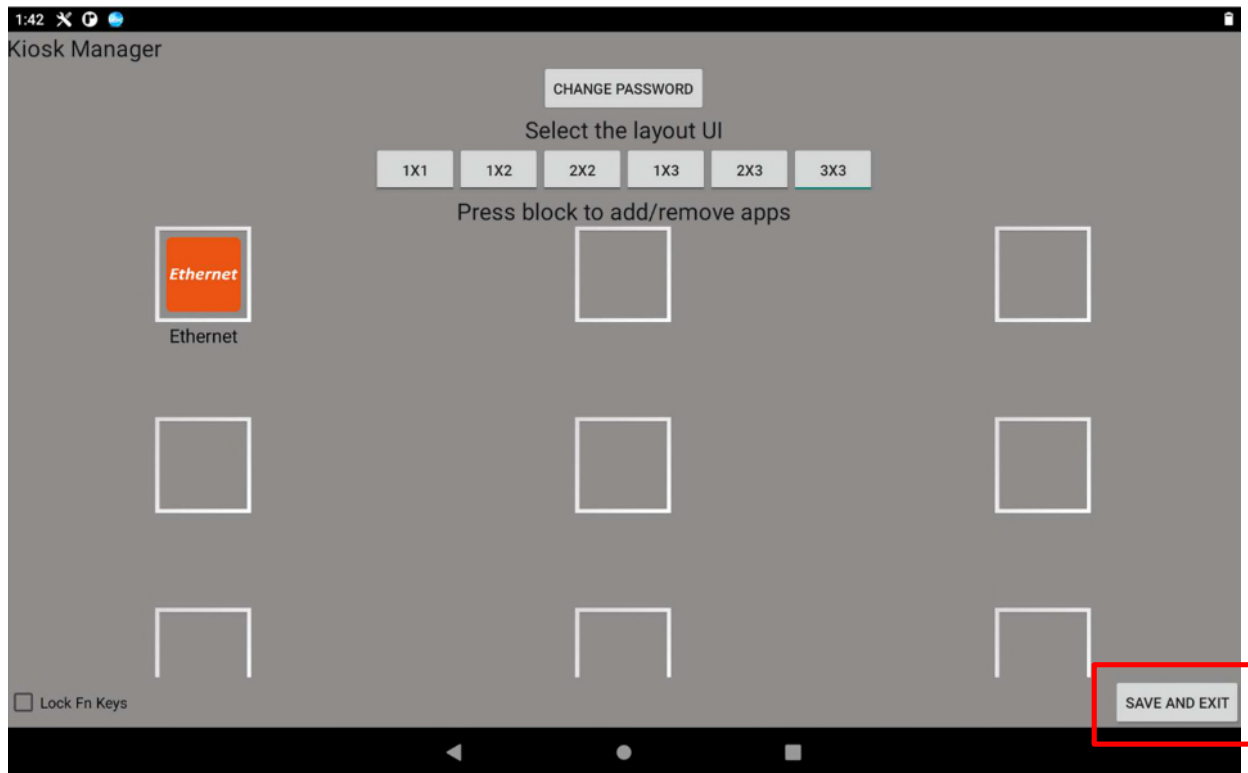
5. Input the default password: **password**



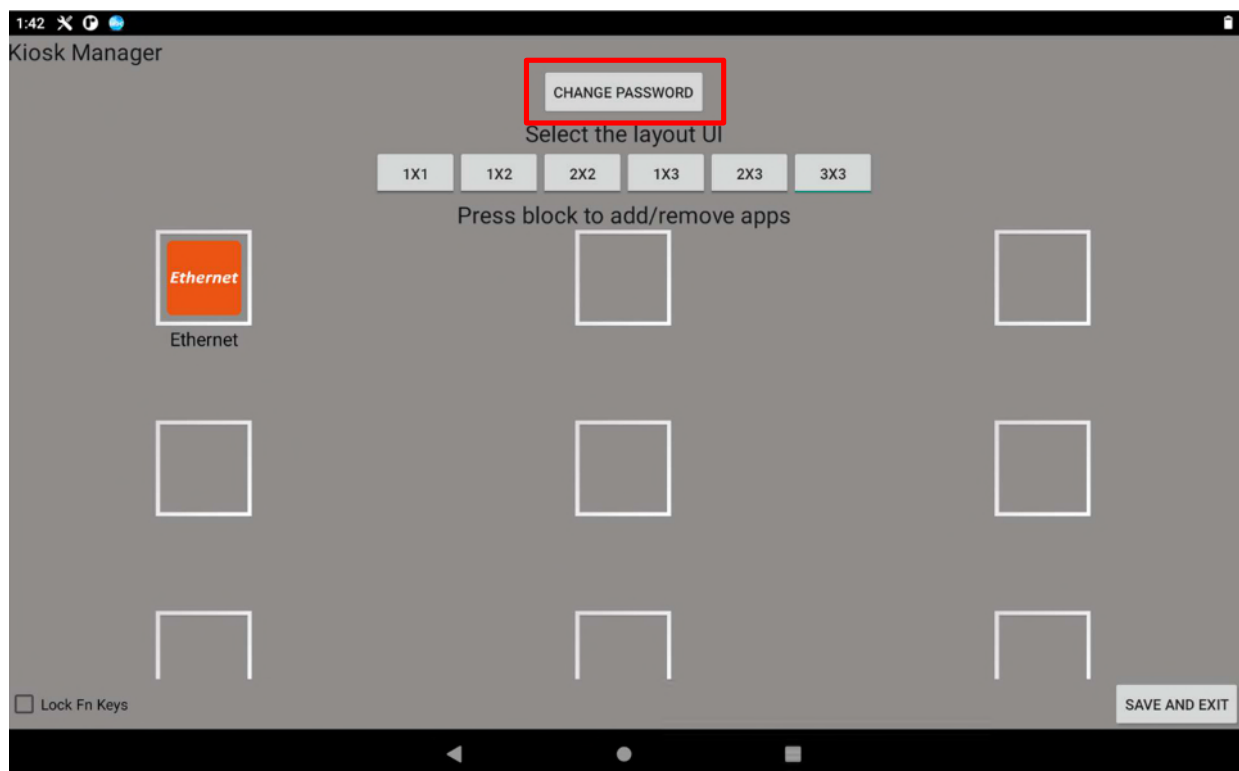
6. Choose the layout UI, then press the empty slot to add/remove apps.



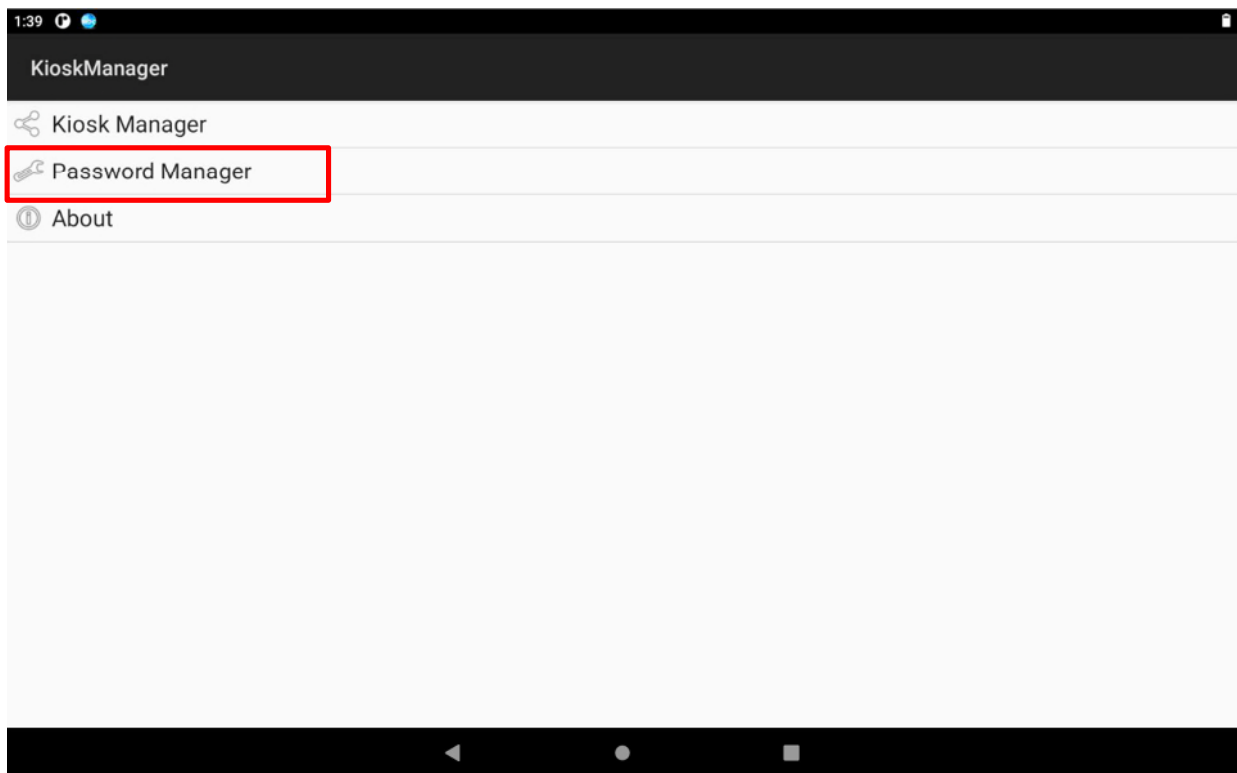
7. Click **Add App**.8. Select applications you want to lock. For example, **Ethernet**.

9. Click **SAVE AND EXIT**.

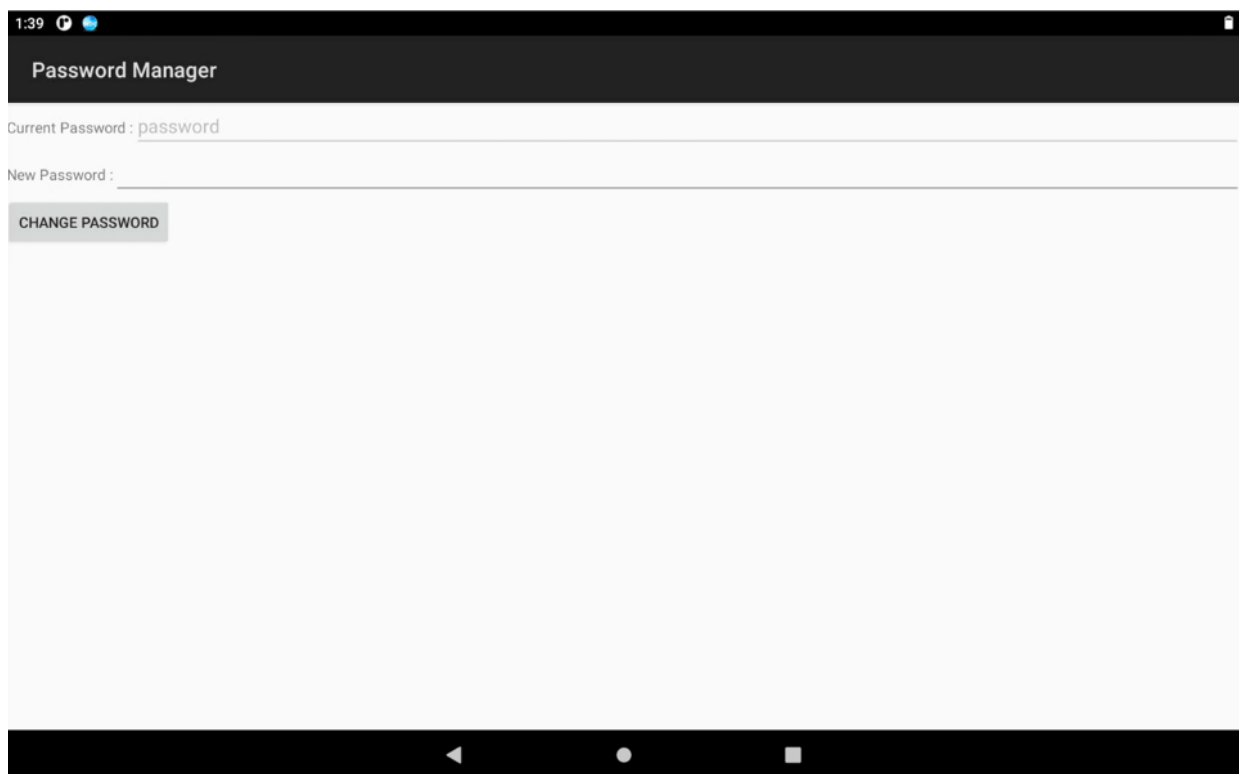
3.6.2 Change Password

1. In the UI edit page, select the **CHANGE PASSWORD**.

Or, in the main Apps window, select the **Kiosk Manager** . Select **Password Manager** to start your settings.

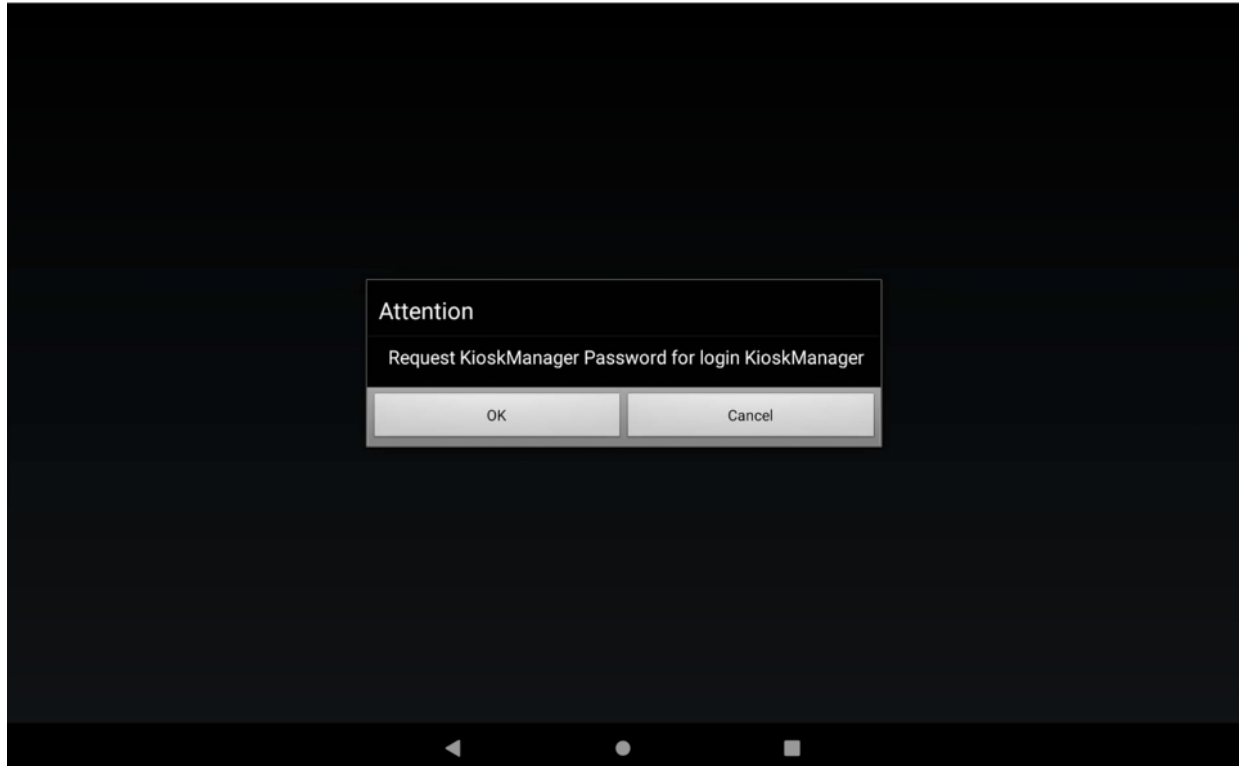
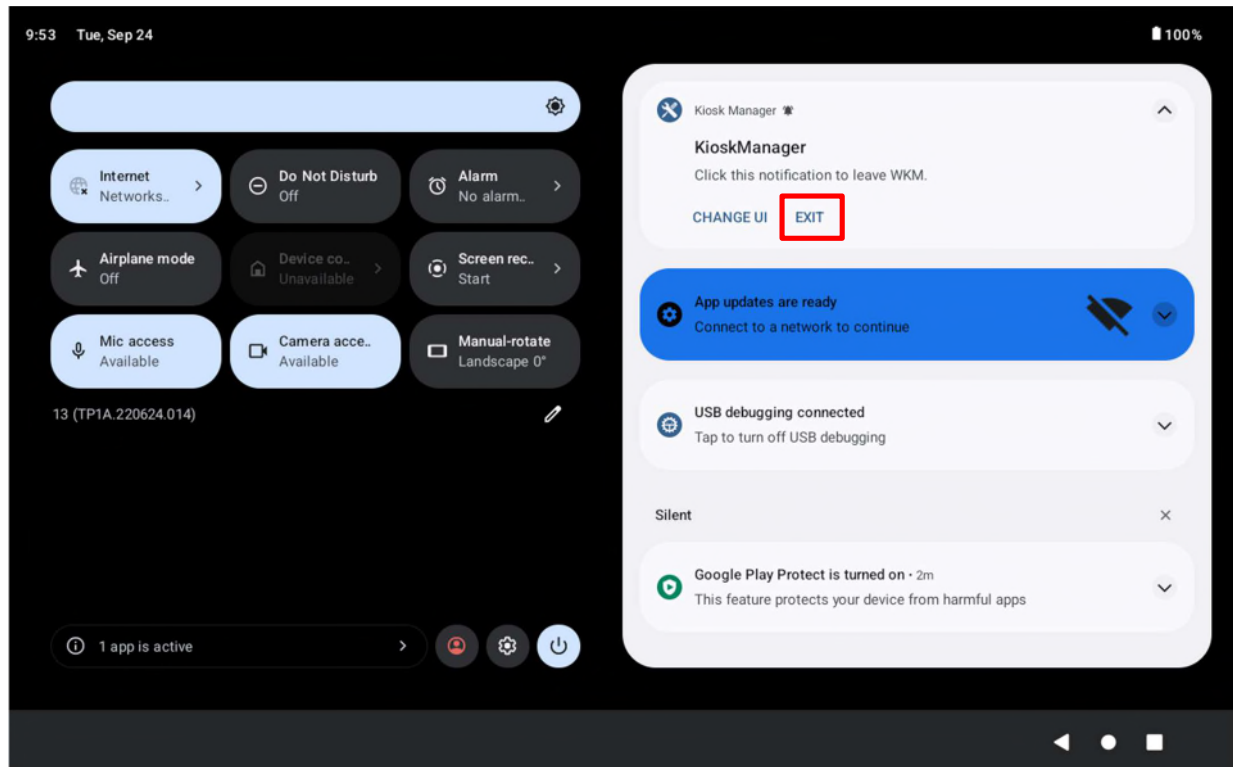


2. The default password is "**password**". Enter a new password in **New Password** field, and then tap **Change Password**.

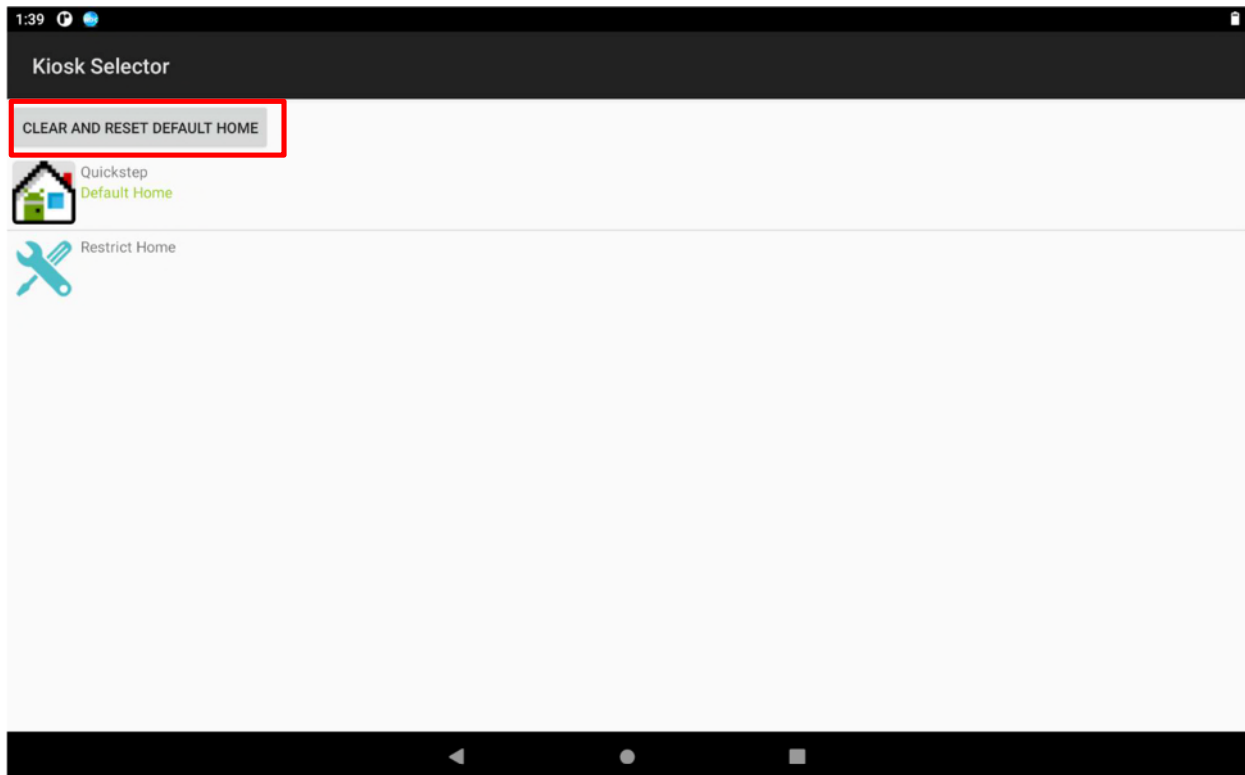


3.6.3 Unlock Applications Launcher

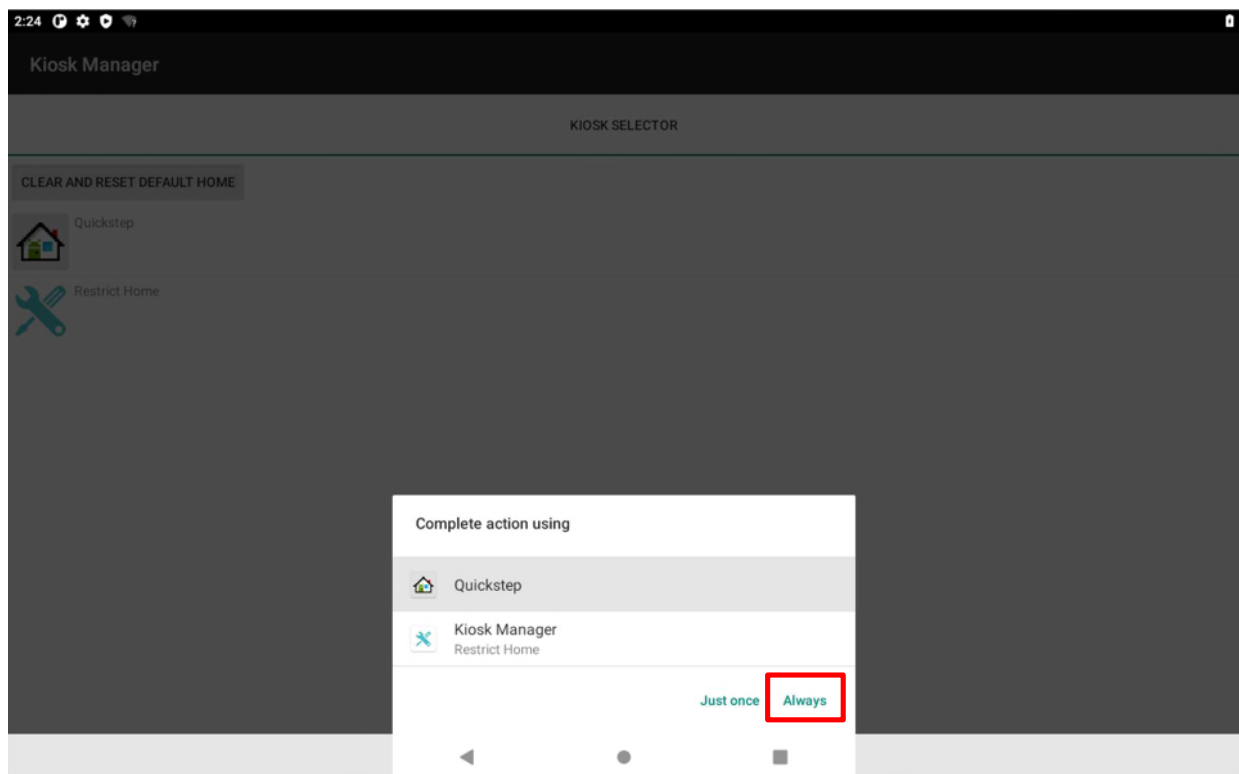
1. Slide down the top bar and press **Kiosk Manager** icon, click **Exit** and please enter the password to login (the default password is **password**). Press **Ok**.



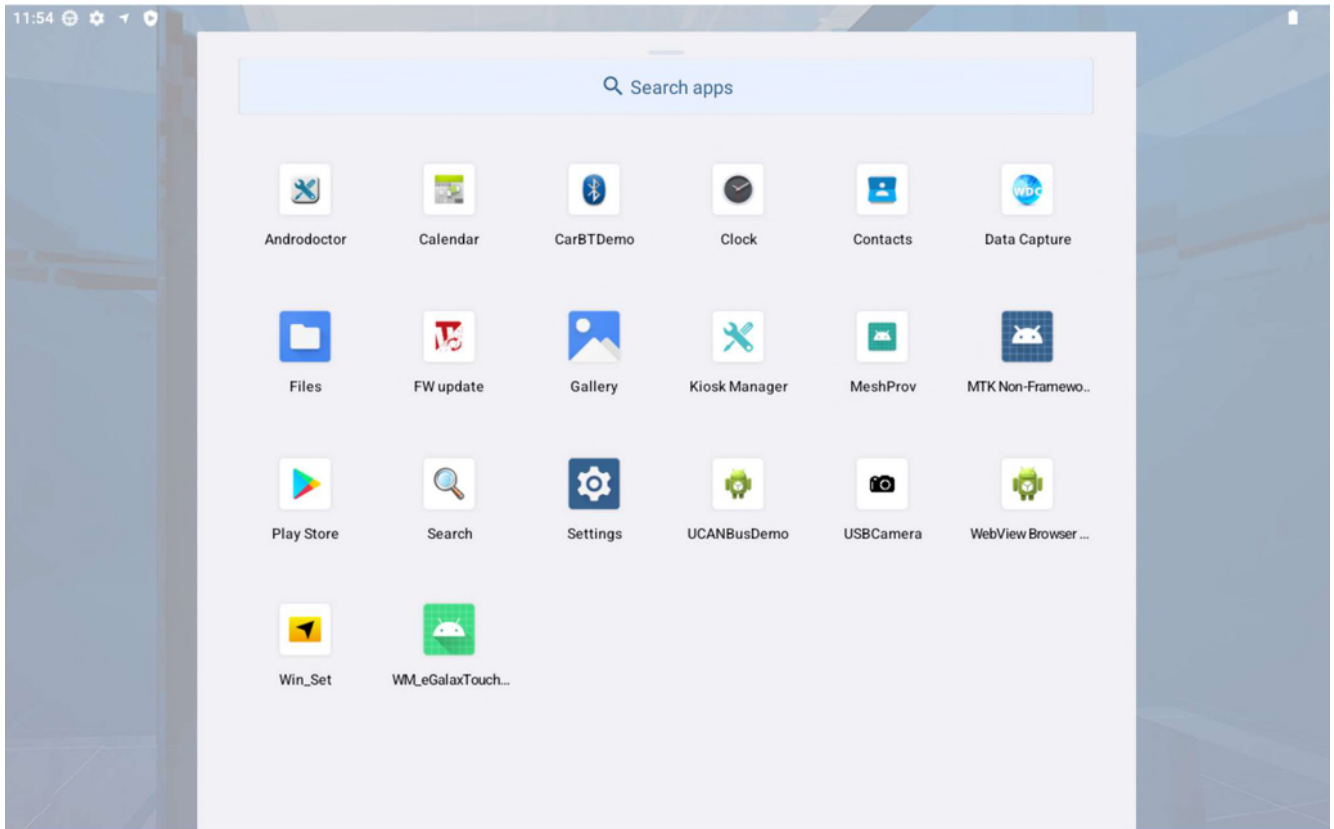
2. Click **Clear and Reset Default Home**.



3. Select **Quickstep**, and press **ALWAYS**.



4. Restart the system and you will go back to the normal Launcher.

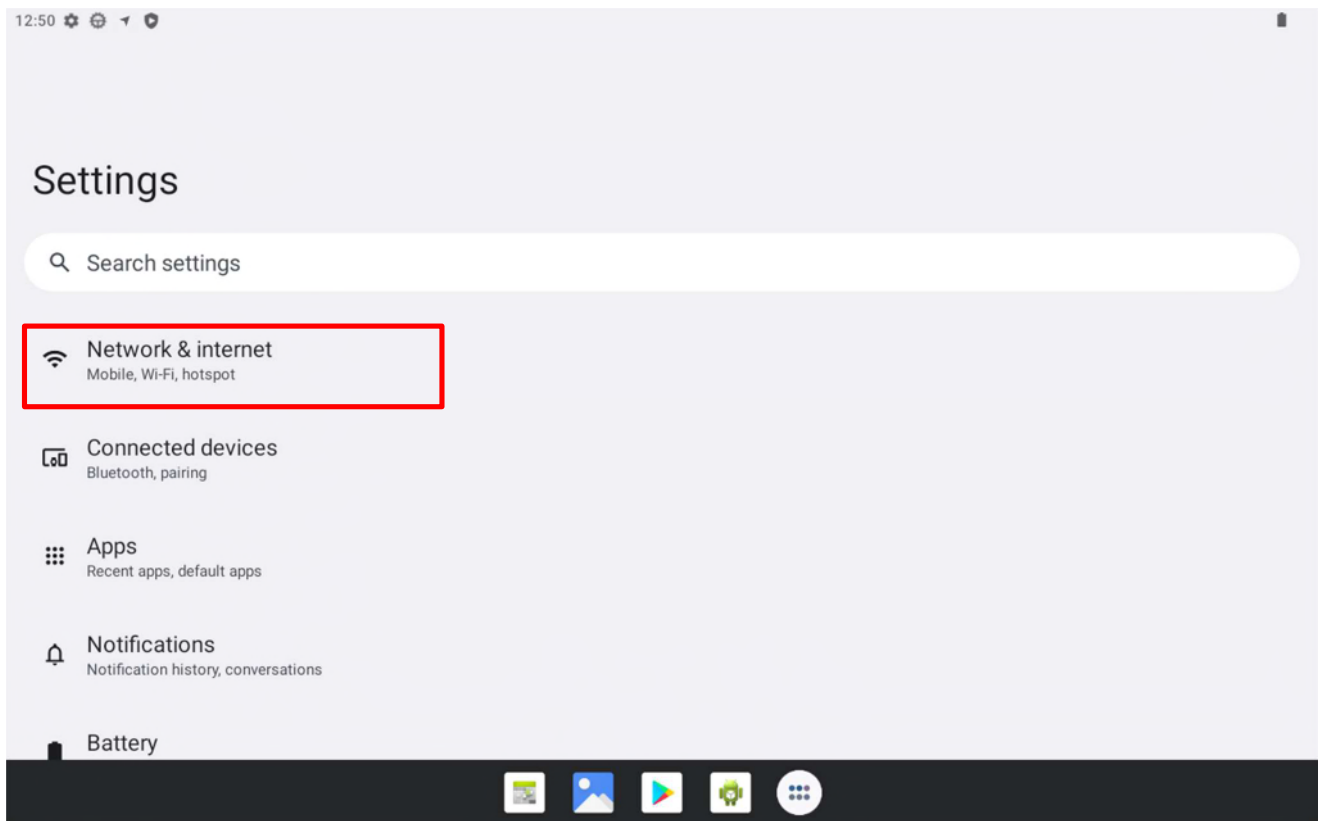


3.7 Networks and Wireless Devices

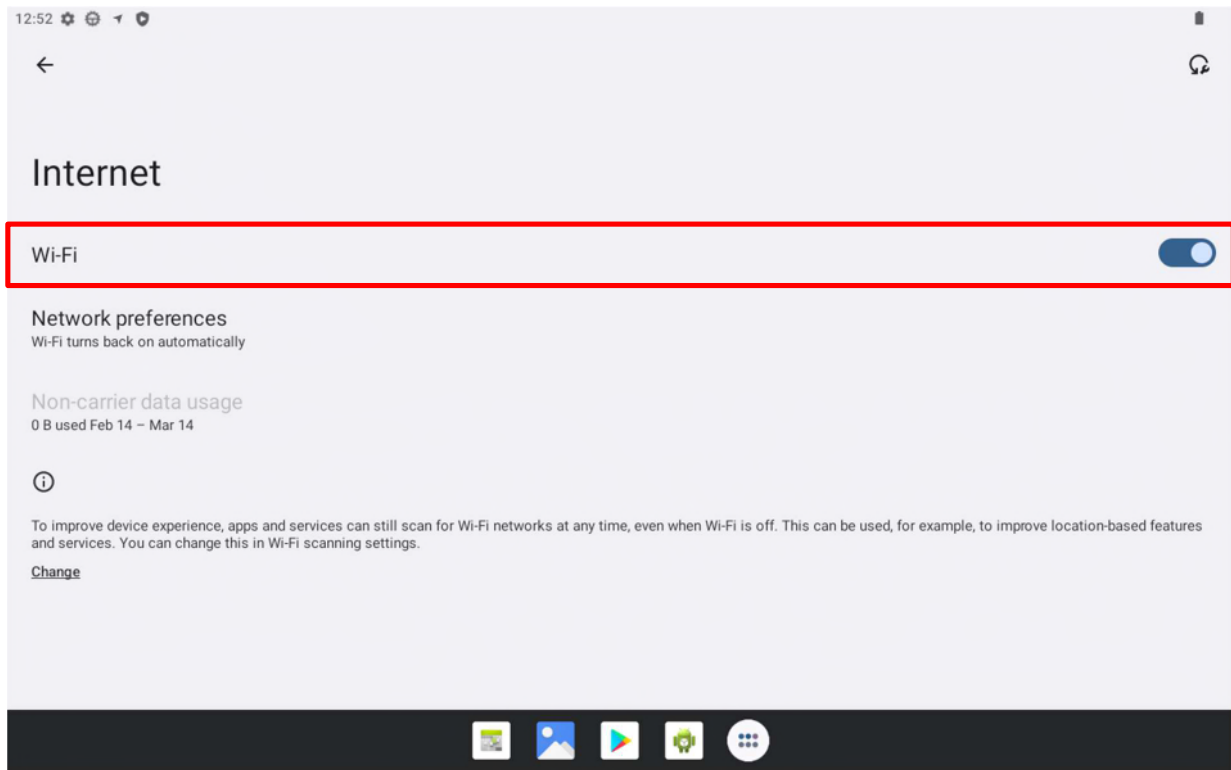
3.7.1 Connecting to Wi-Fi Networks (Optional)

3.7.1.1 Turning on Wi-Fi and Connecting to Wi-Fi Networks

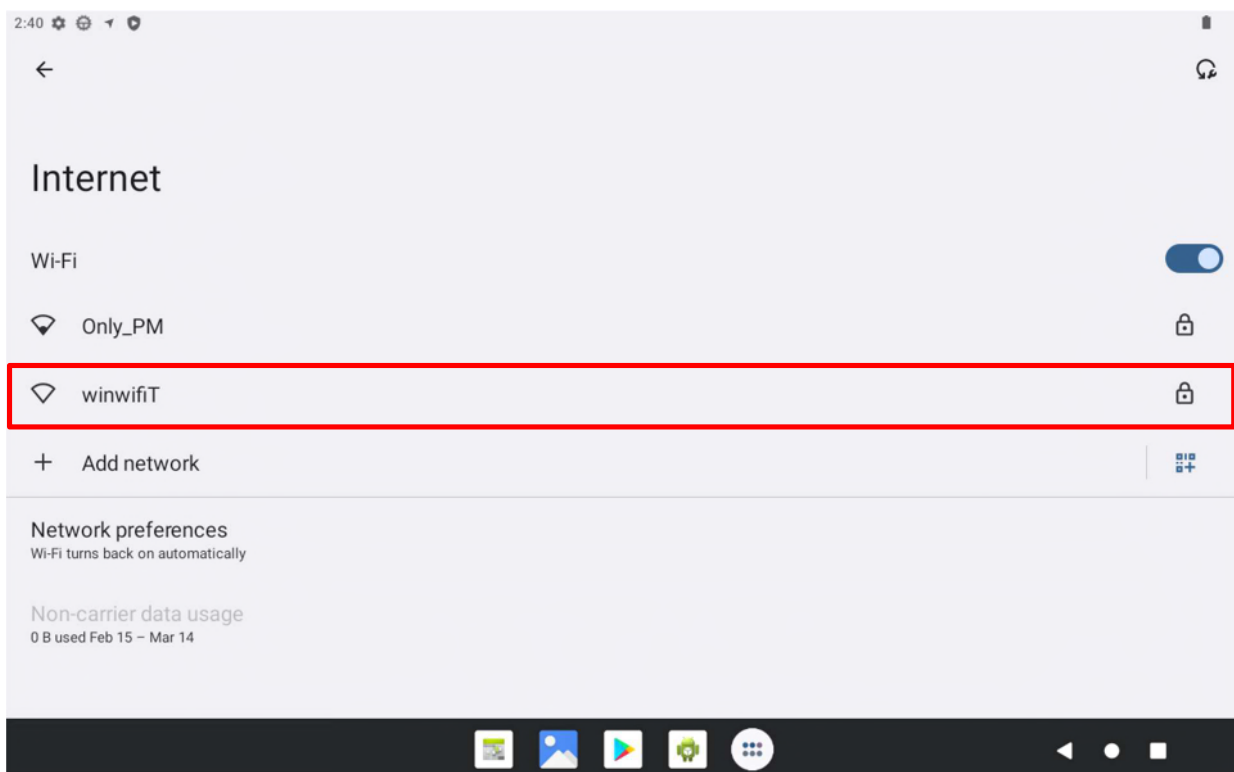
1. Swipe from the bottom of the main desktop, tap **Settings** ⚙️.
2. Tap **Network & Internet** 📶.



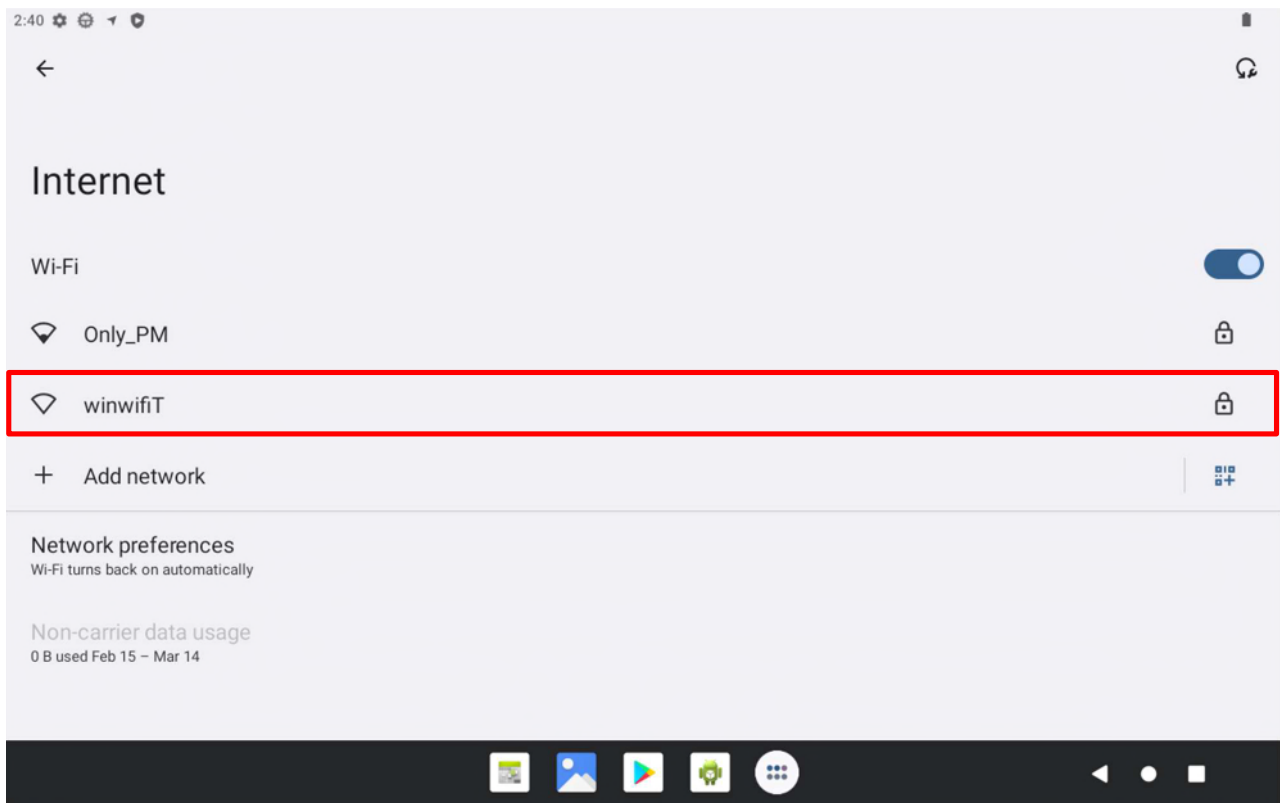
3. Tap **Internet** and then toggle the on/off switch on the top-right hand side to turn on the **Wi-Fi**. The device scans for available Wi-Fi networks and displays the list of it. Secured networks are indicated with a lock icon. If the HMI finds a network that you have connected previously, it connects to it automatically.



4. Tap a network to connect to it:
- If the network is open, you are prompted to confirm that you want to connect it by tapping **Connect**.
 - If the network is secured, users are prompted to enter a password or other credentials.

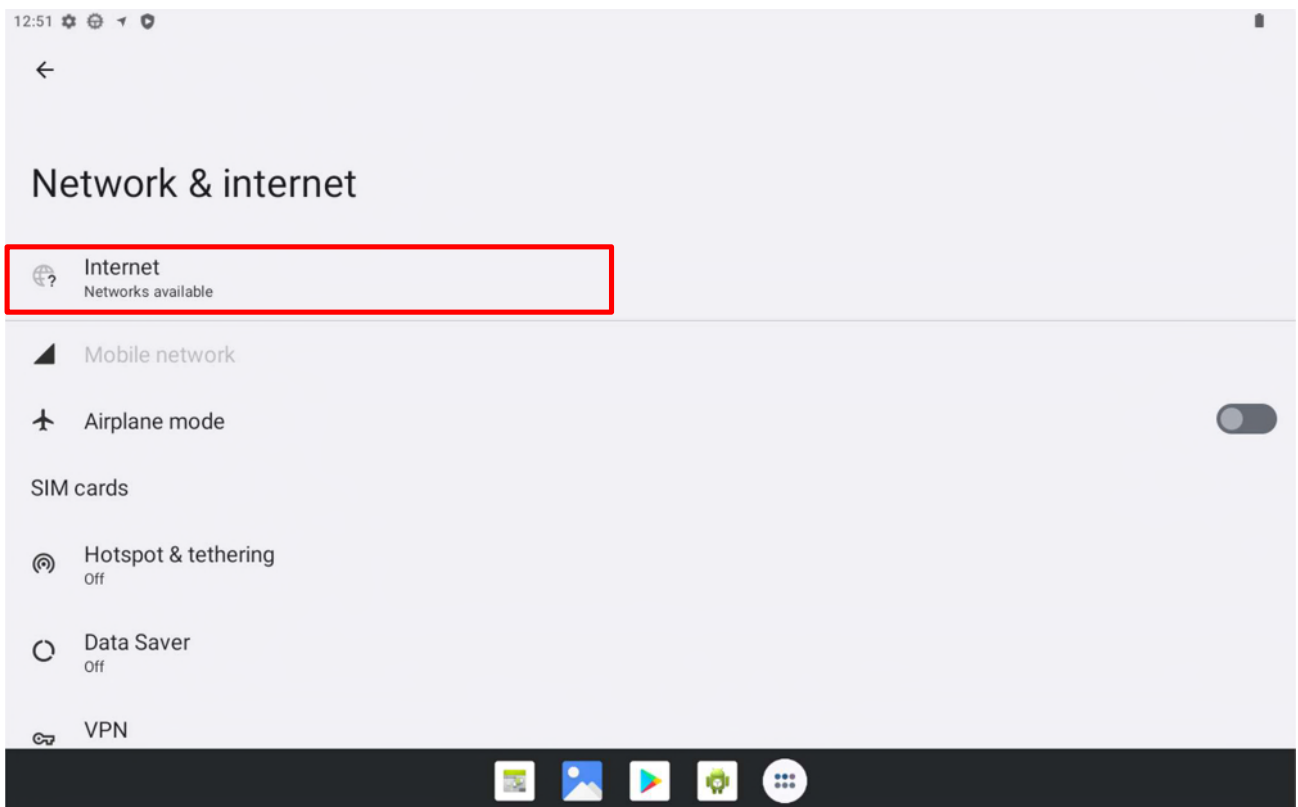
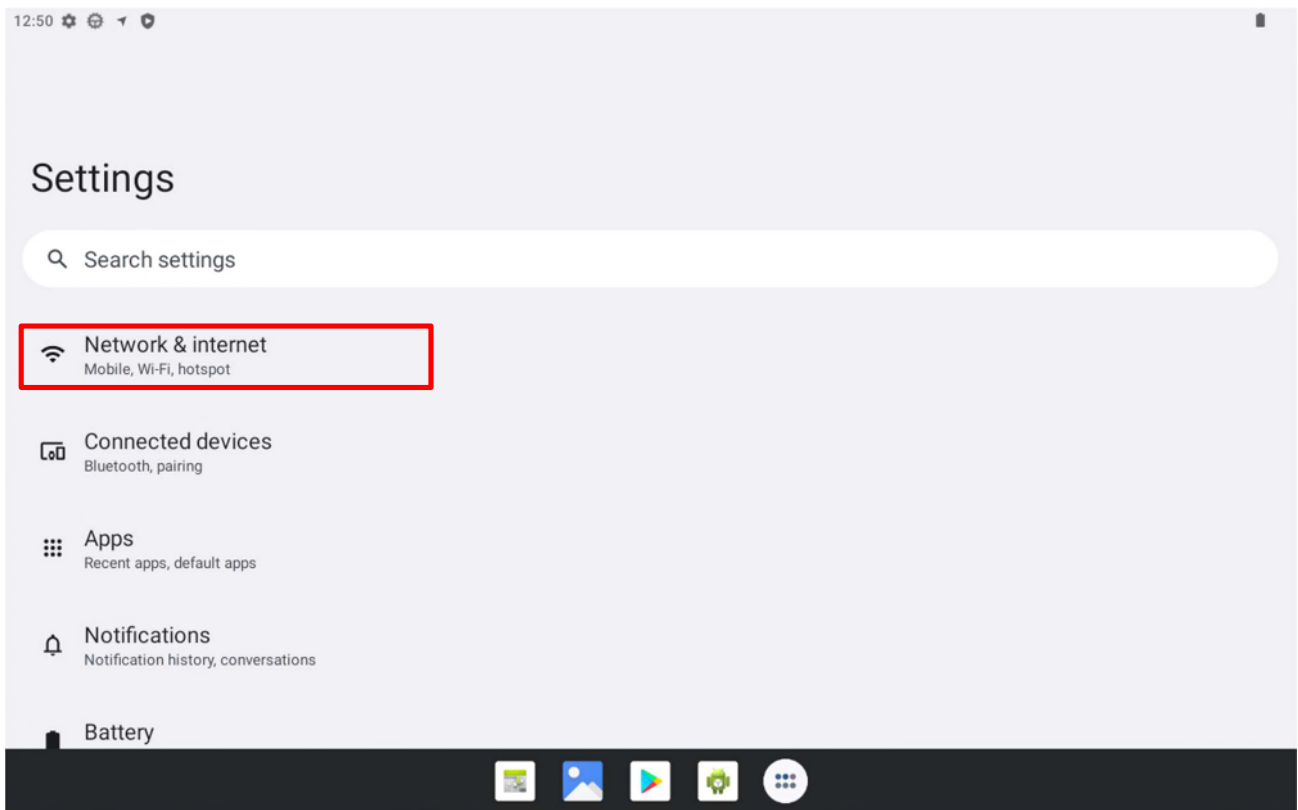


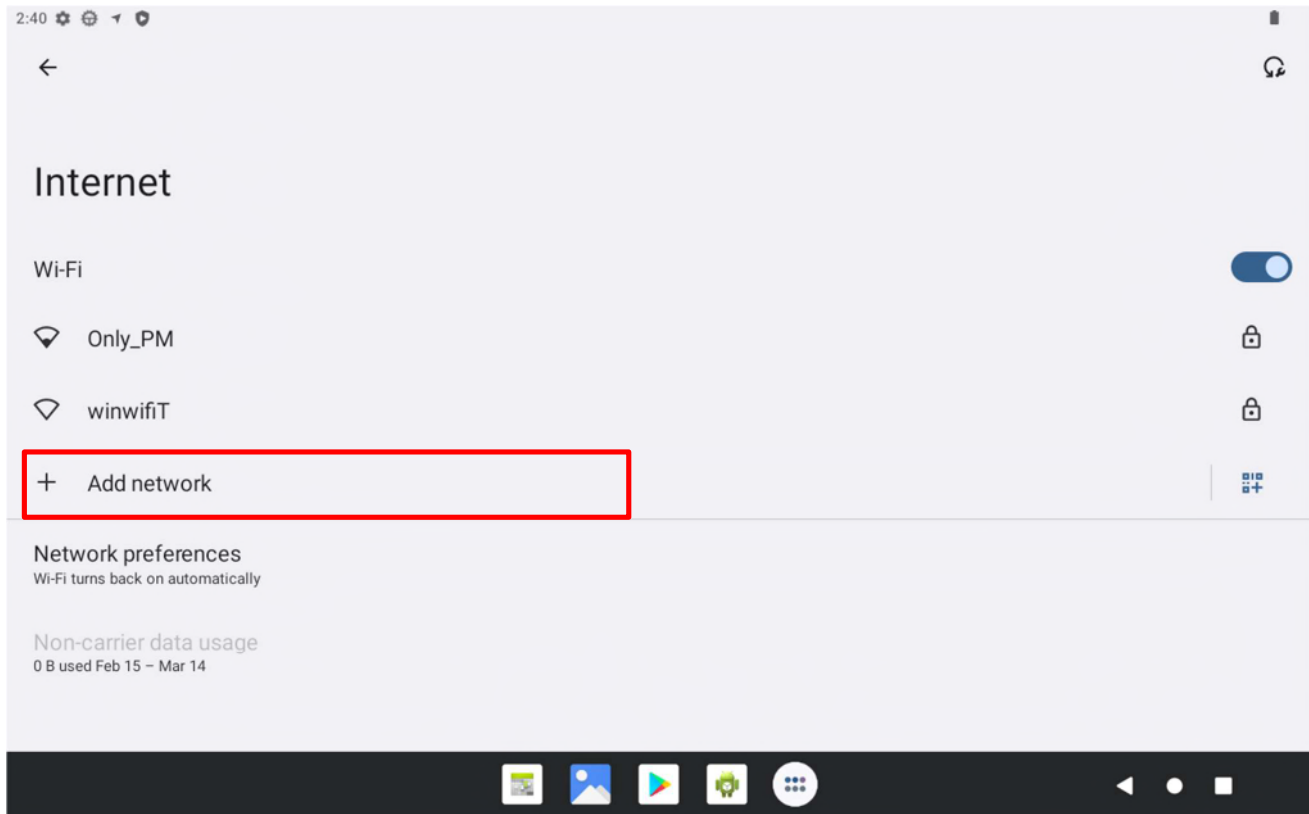
5. To check the details about the speed, security, address and related settings, tap its name in the Wi-Fi settings screen.



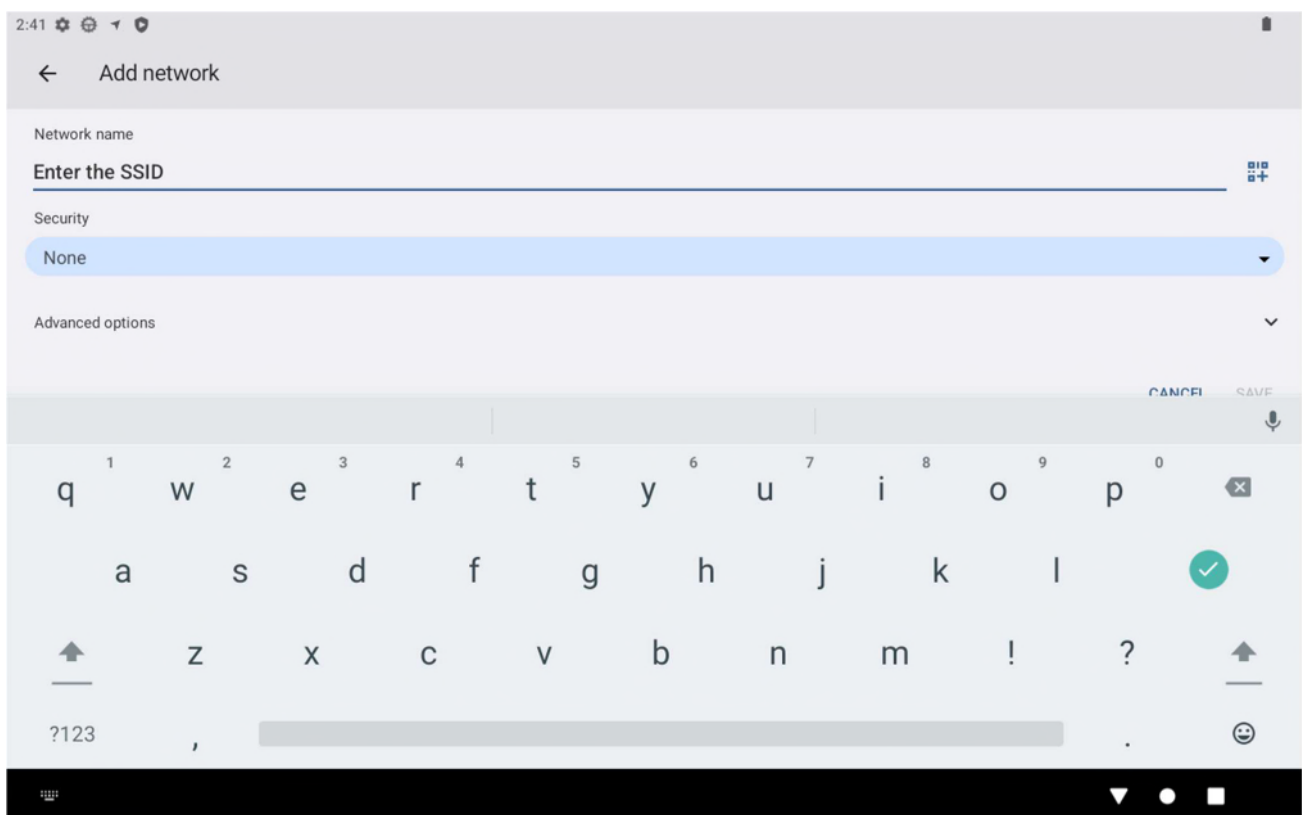
3.7.1.2 Adding Wi-Fi Network

1. Turn on Wi-Fi, in the Wi-Fi settings screen, tap **+ Add network** (at the bottom of the list of discovered networks).





2. Input the SSID (name) of the network, if the network is secured, tap the security menu and then tap the type of security deployed on the network.

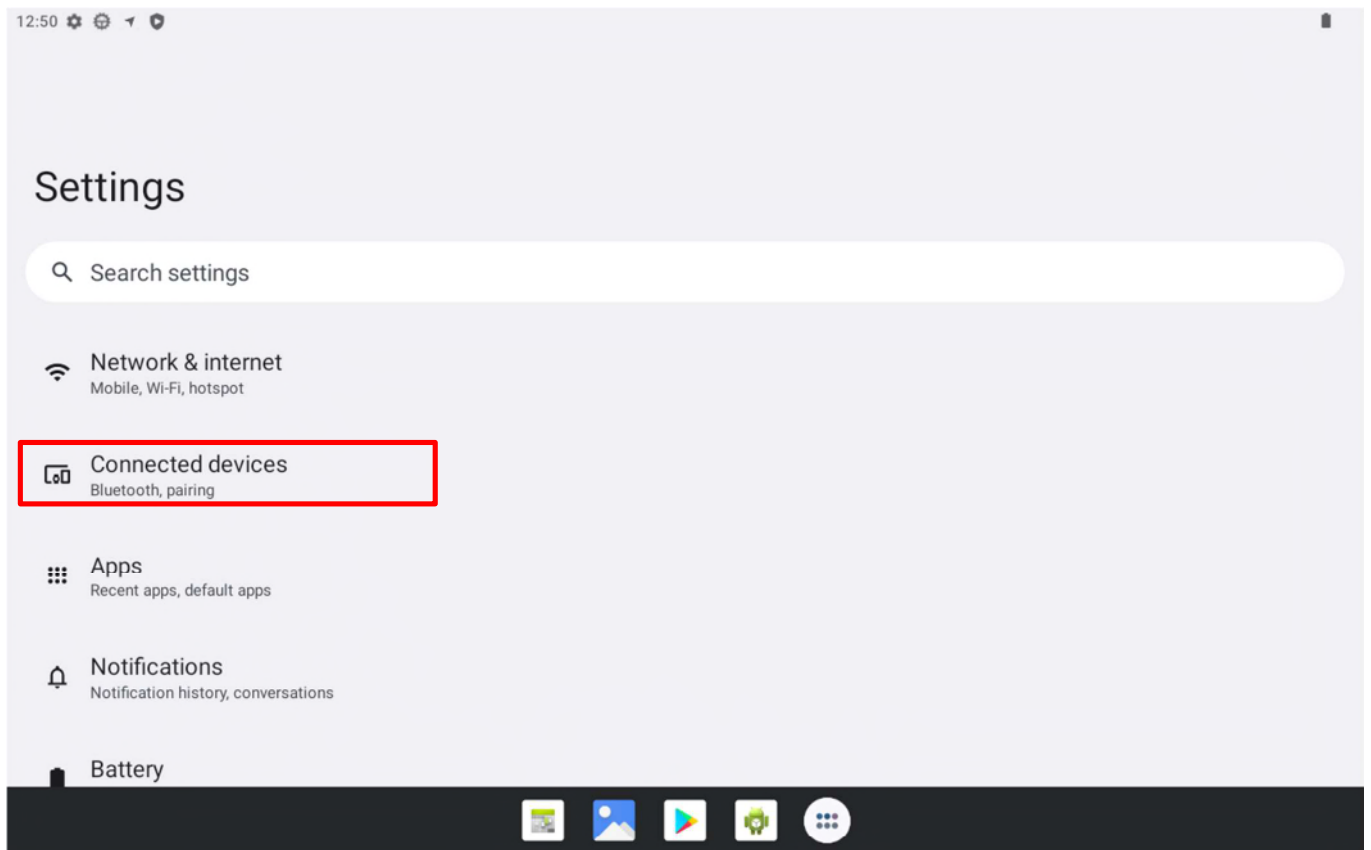


3. Enter any required security credentials.
4. Tap **Save**.

3.7.2 Connecting to BT Devices (Optional)

3.7.2.1 Turning BT On or Off

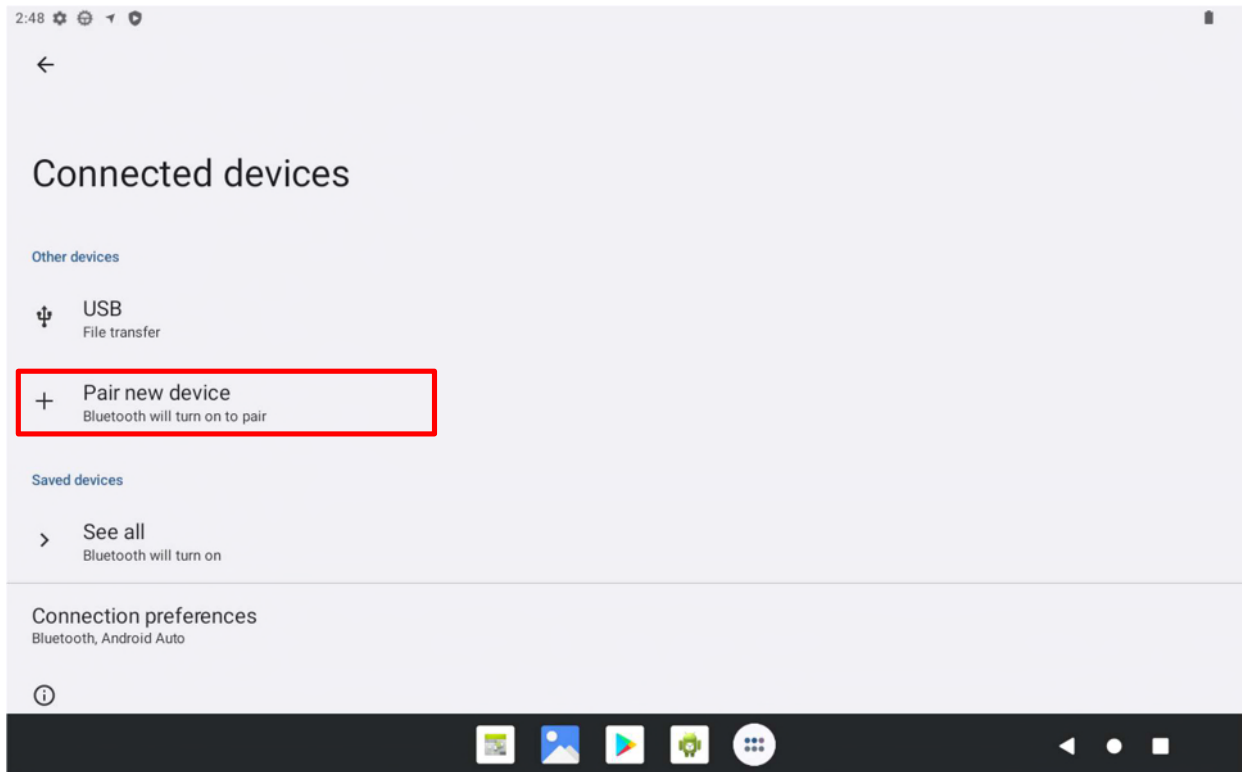
1. Swipe from the bottom of the main desktop, tap **Settings** .
2. Tap **Connected Devices** .



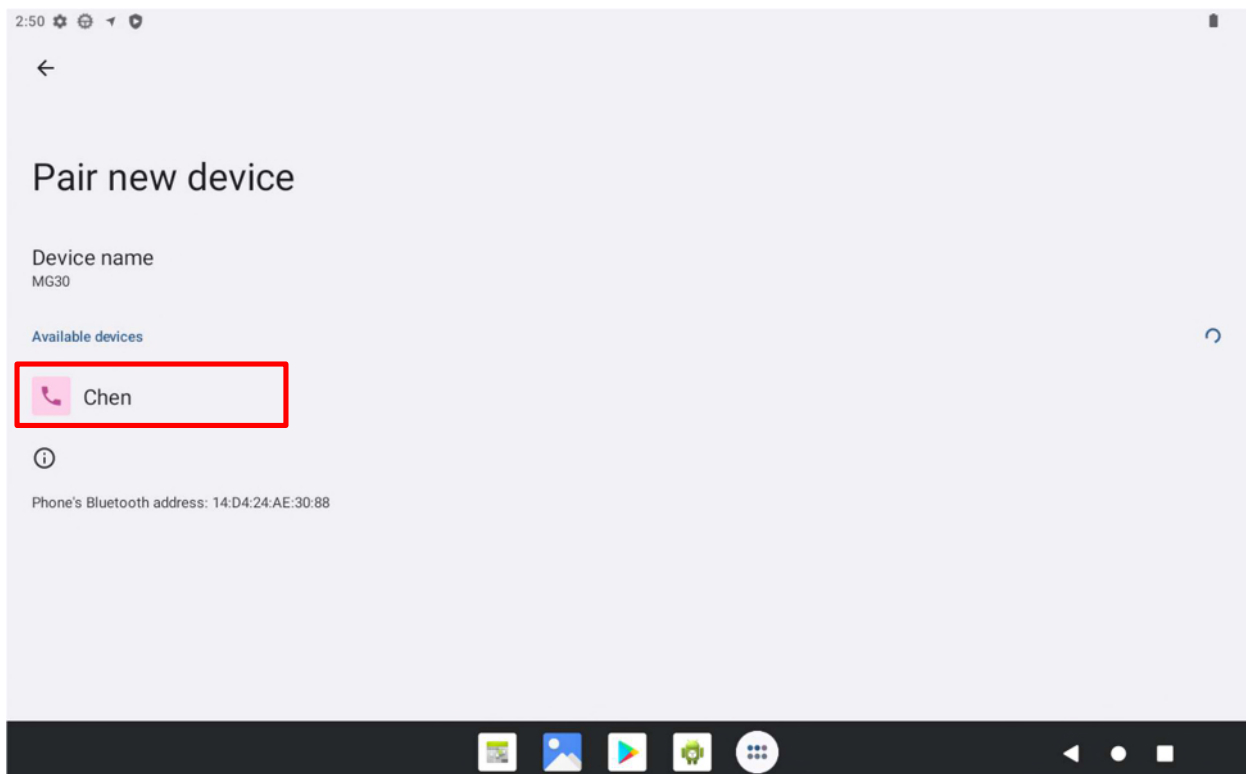
3. Tap **Connected Devices** preferences, and the toggle the on/off switch on the top-right hand side to turn on the BT.

3.7.2.2 Connecting the BT Device

1. Swipe from the bottom of the main desktop, tap **Settings** .
2. Tap **Connected Devices** .
3. Tap **Pair new device**. The system will automatically scan and display the IDs of all available BT device in range

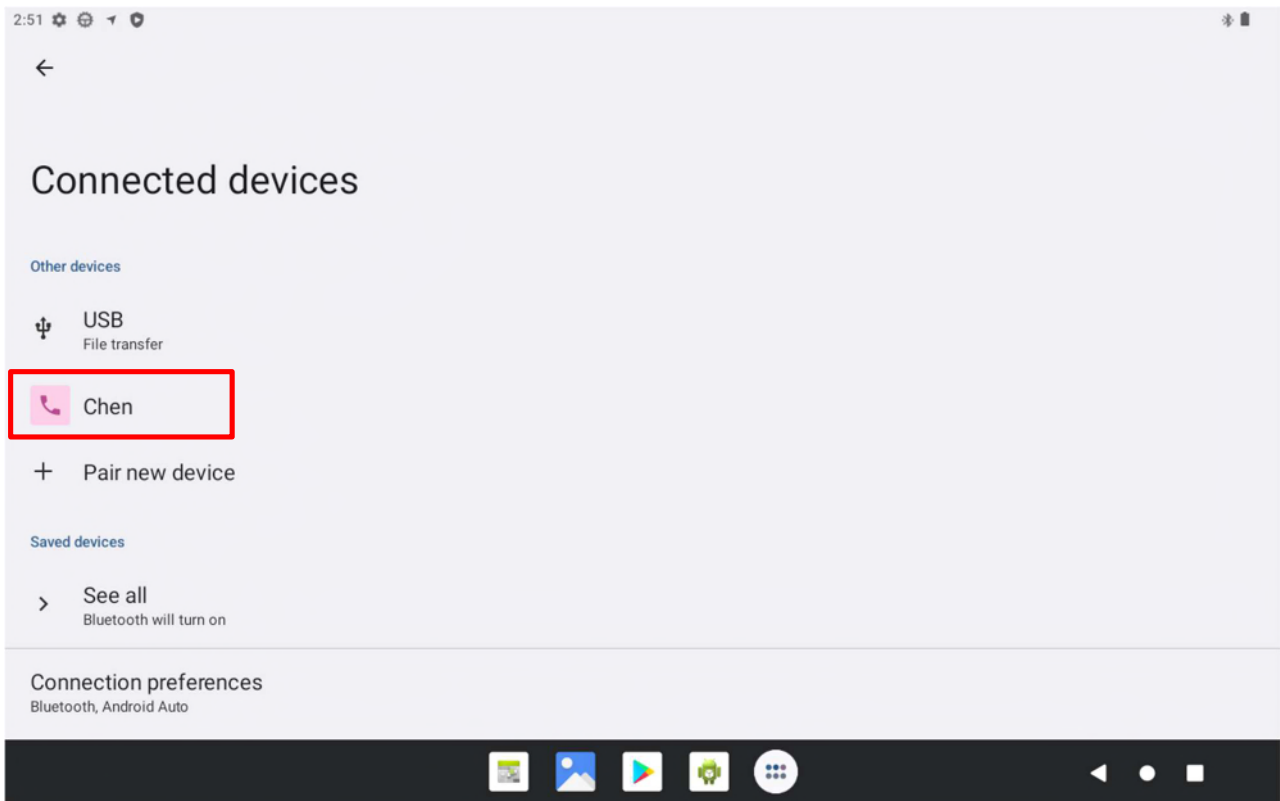


4. Select the device to be paired.

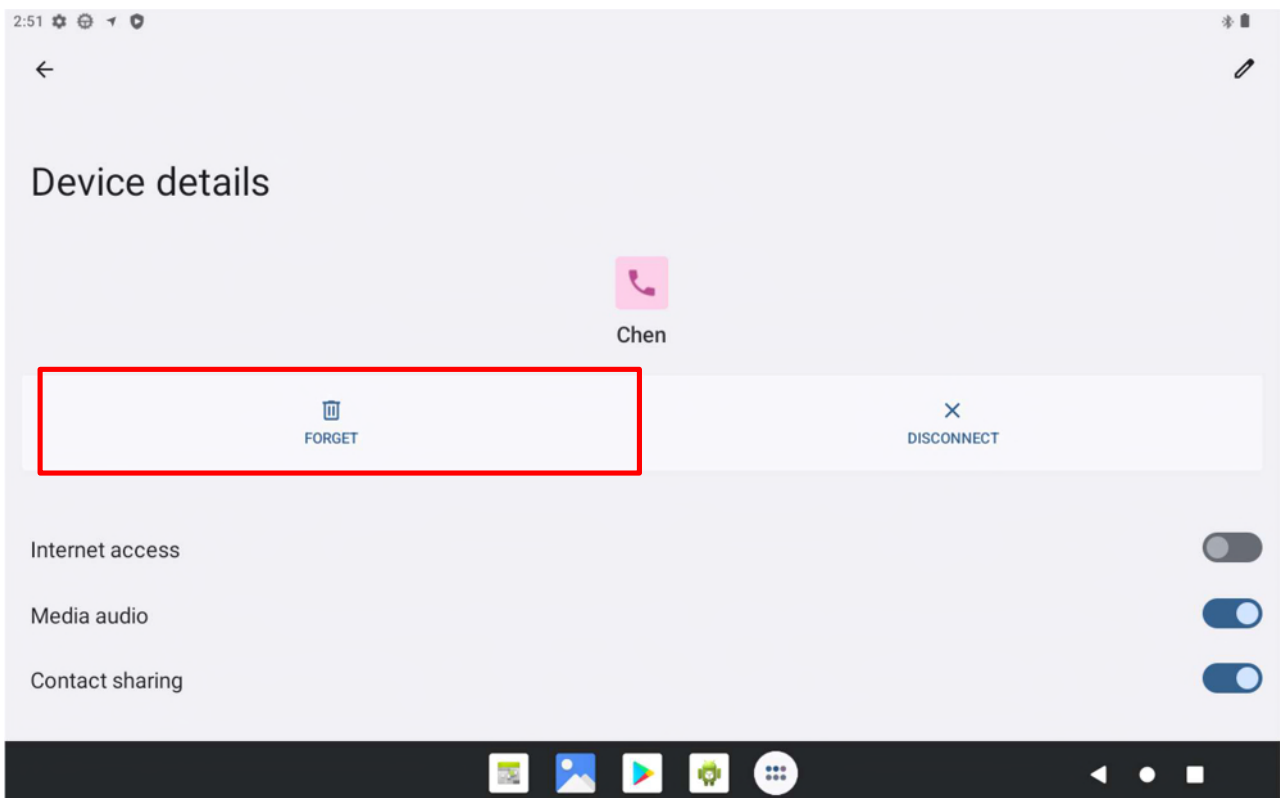


3.7.2.3 Disconnecting BT Device

1. Tap the device in the **BT** settings screen.



2. Tap **FORGET** to disconnect.



3.7.3 Connecting to Computer via USB

User can connect their HMI to a computer with USB cable to transfer files between HMI and computer.

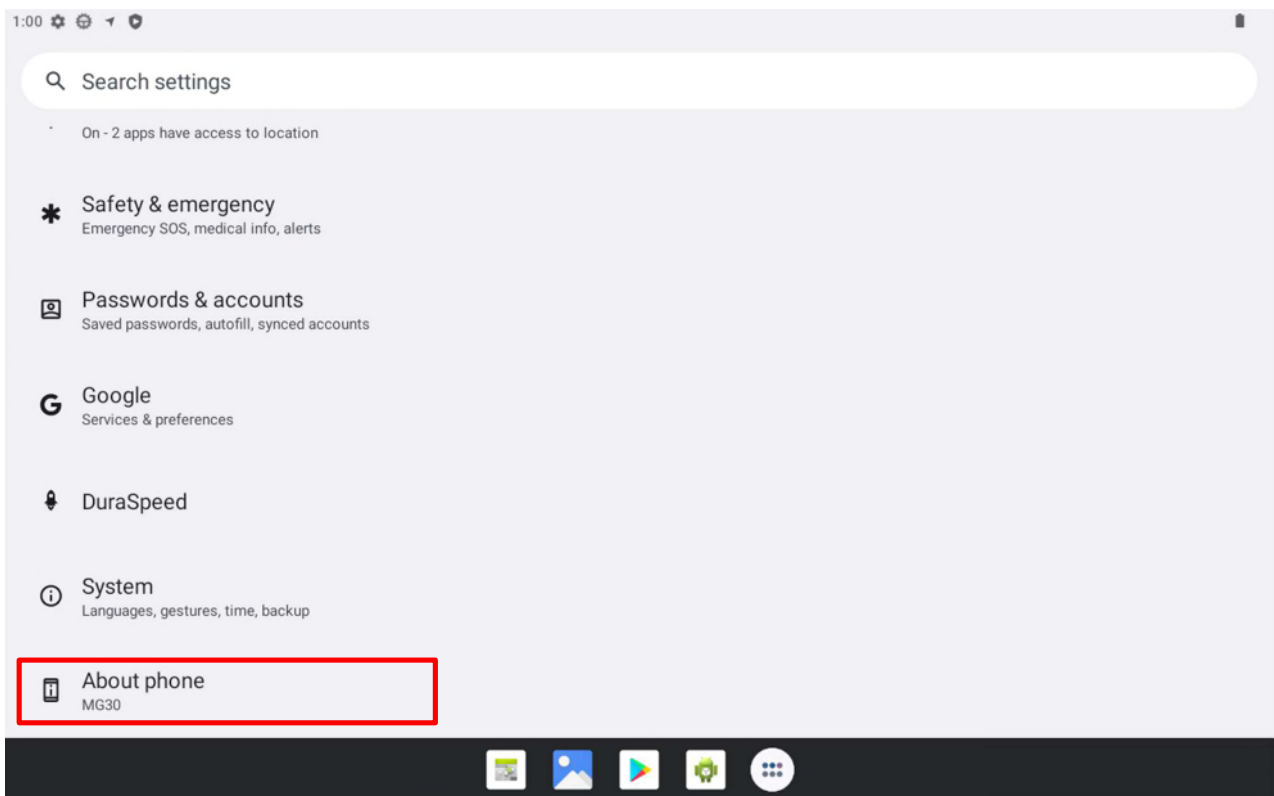


Important: When connecting your HMI to a computer and inserting its USB storage or SD card, user must follow the computer's instructions for connecting and disconnecting USB device, to avoid damaging or corrupting files. Notice that the E Series HMI cannot be charged via USB.

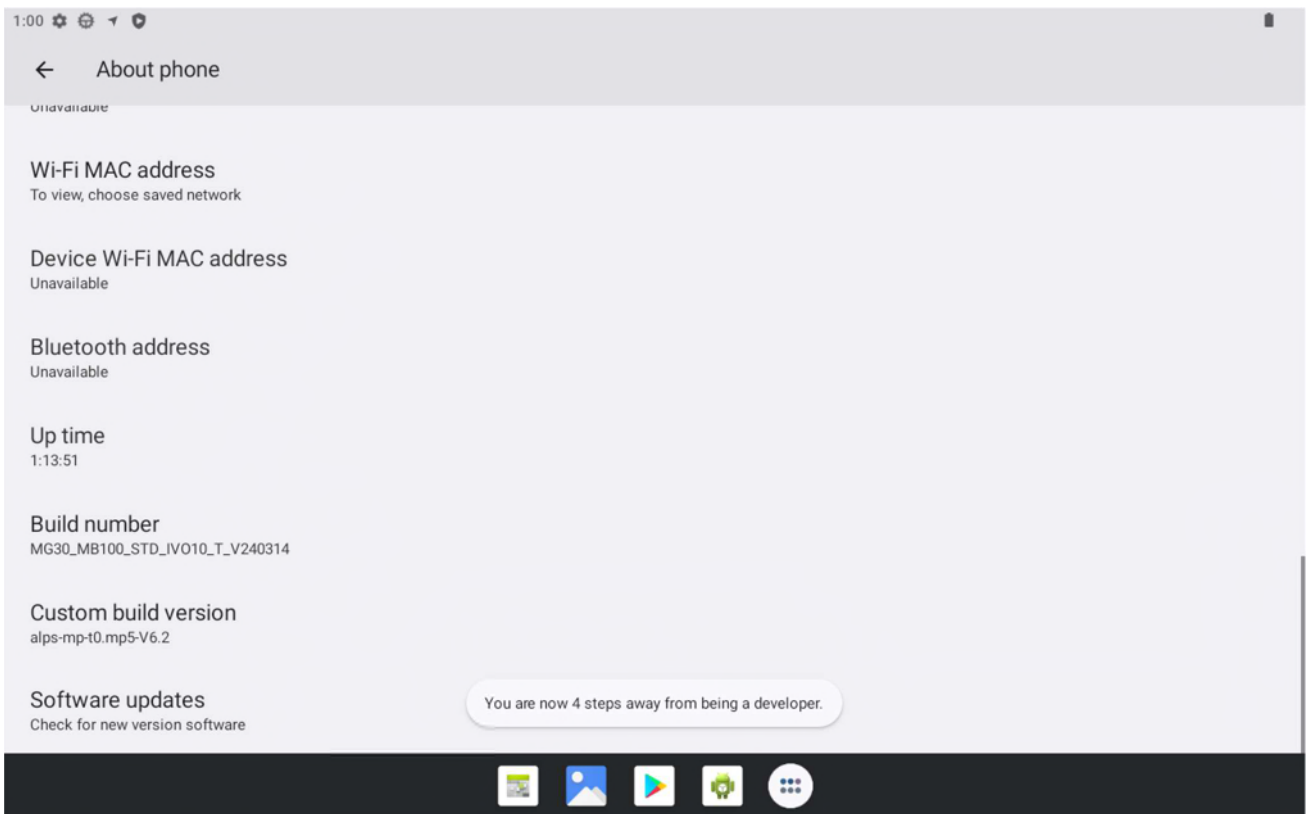
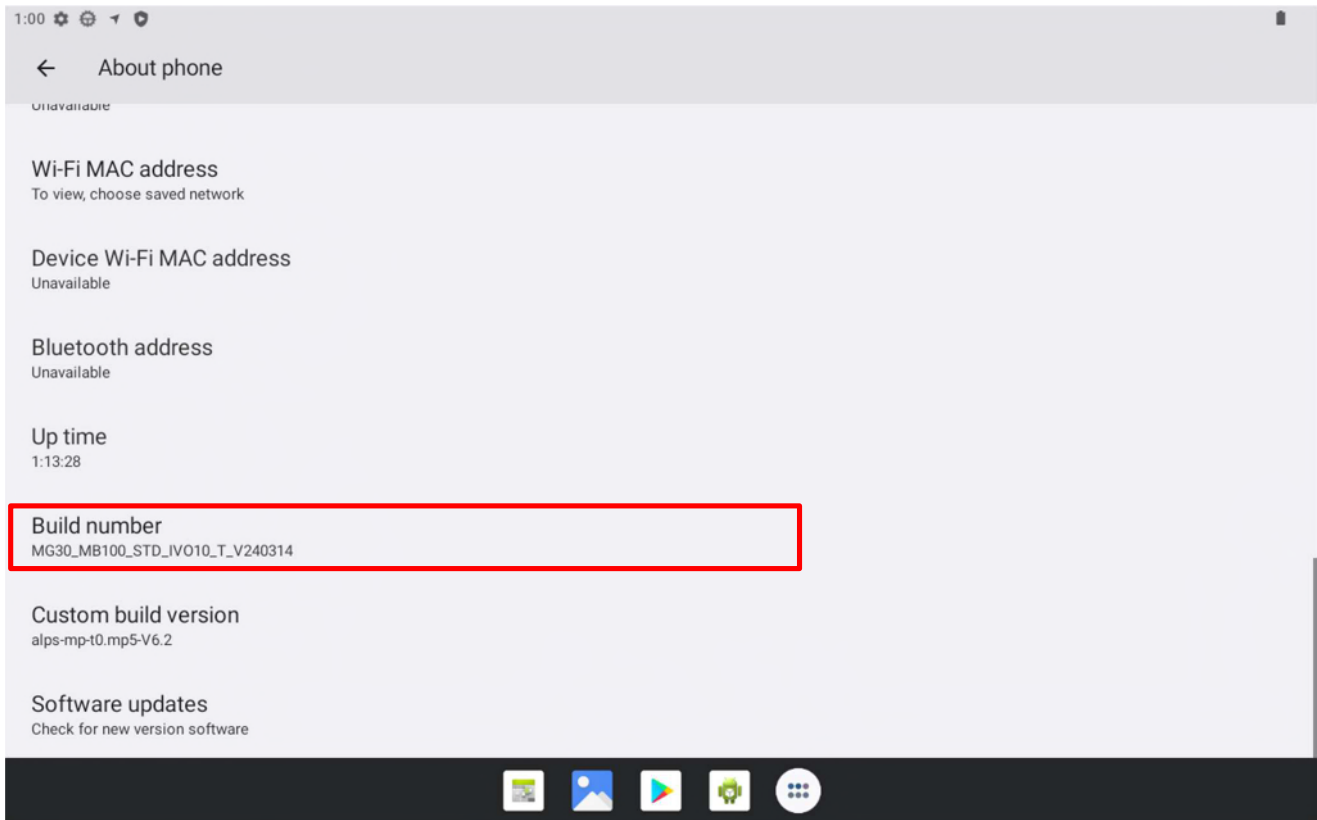
3.7.3.1 USB Debugging Settings

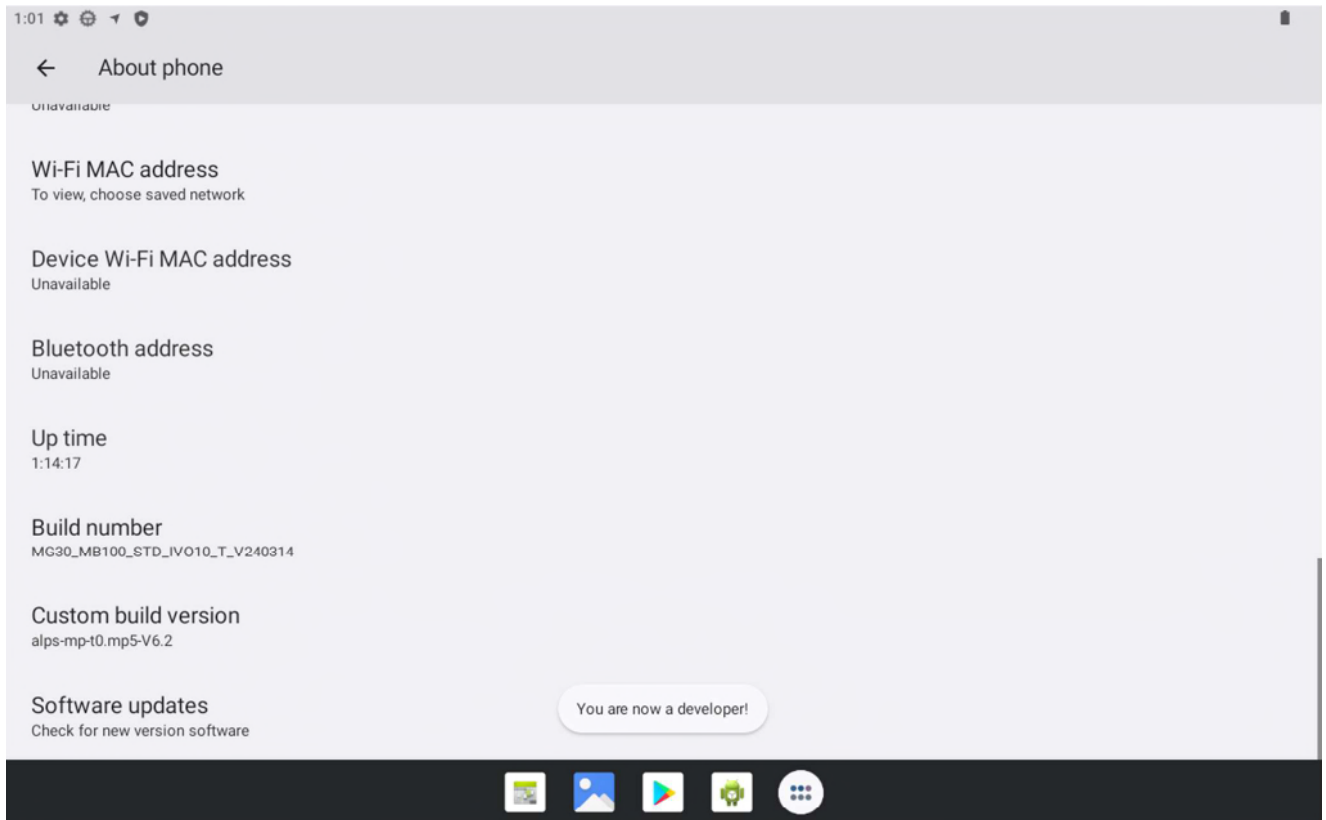
To permit debugging tools on a computer to communicate with User's HMI via USB Connection.

1. Connect HMI to the computer via USB cable.
2. Swipe from the bottom of the main desktop, tap **Settings** , and tap **About phone** .

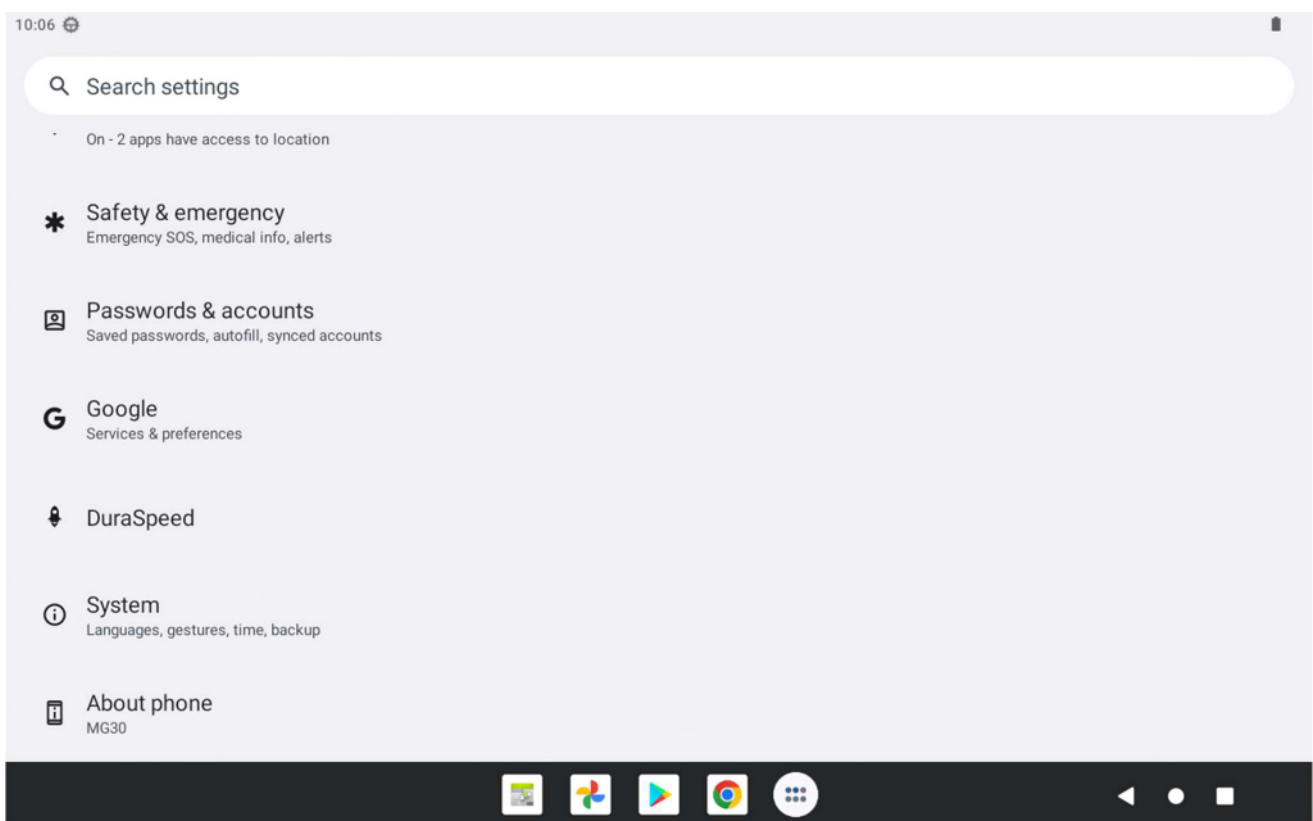


3. Tap **Build number** 7 times to access the developer mode.

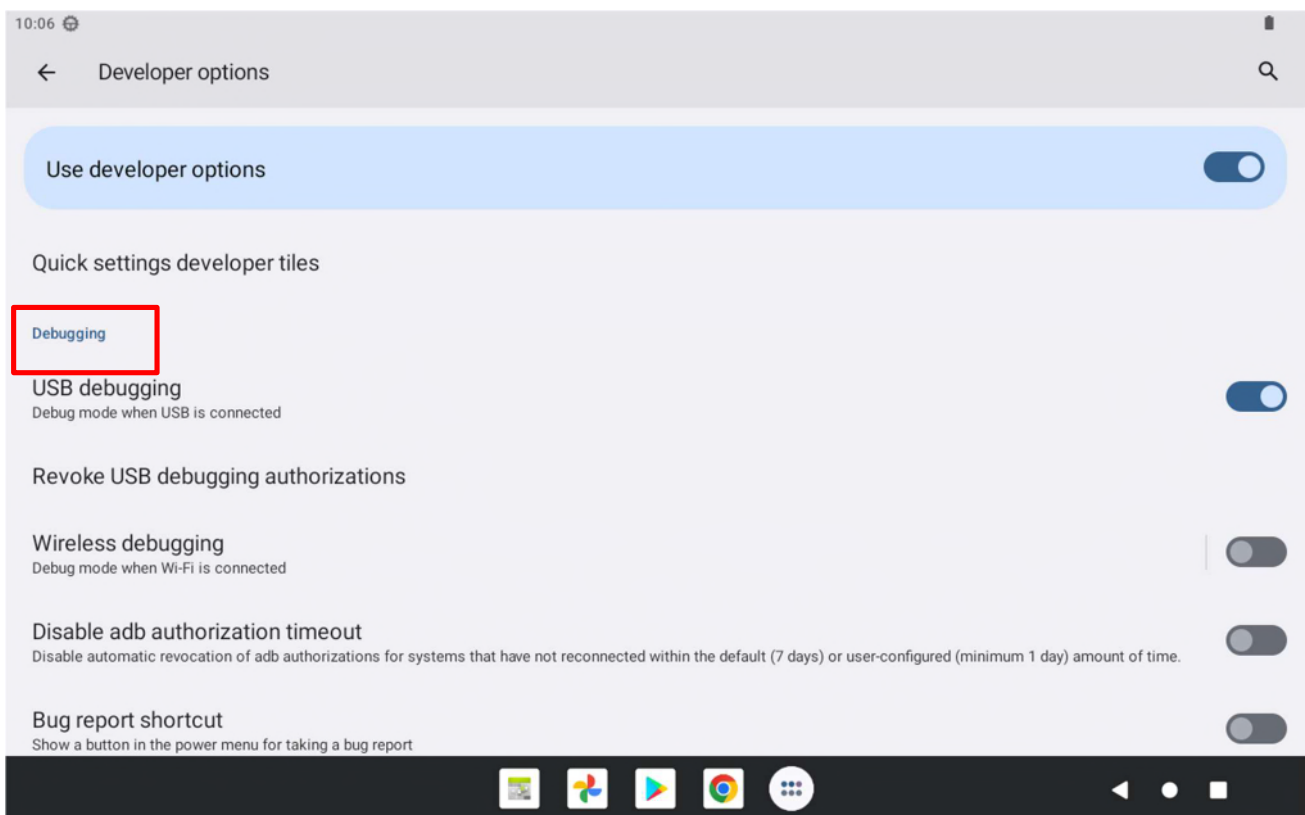
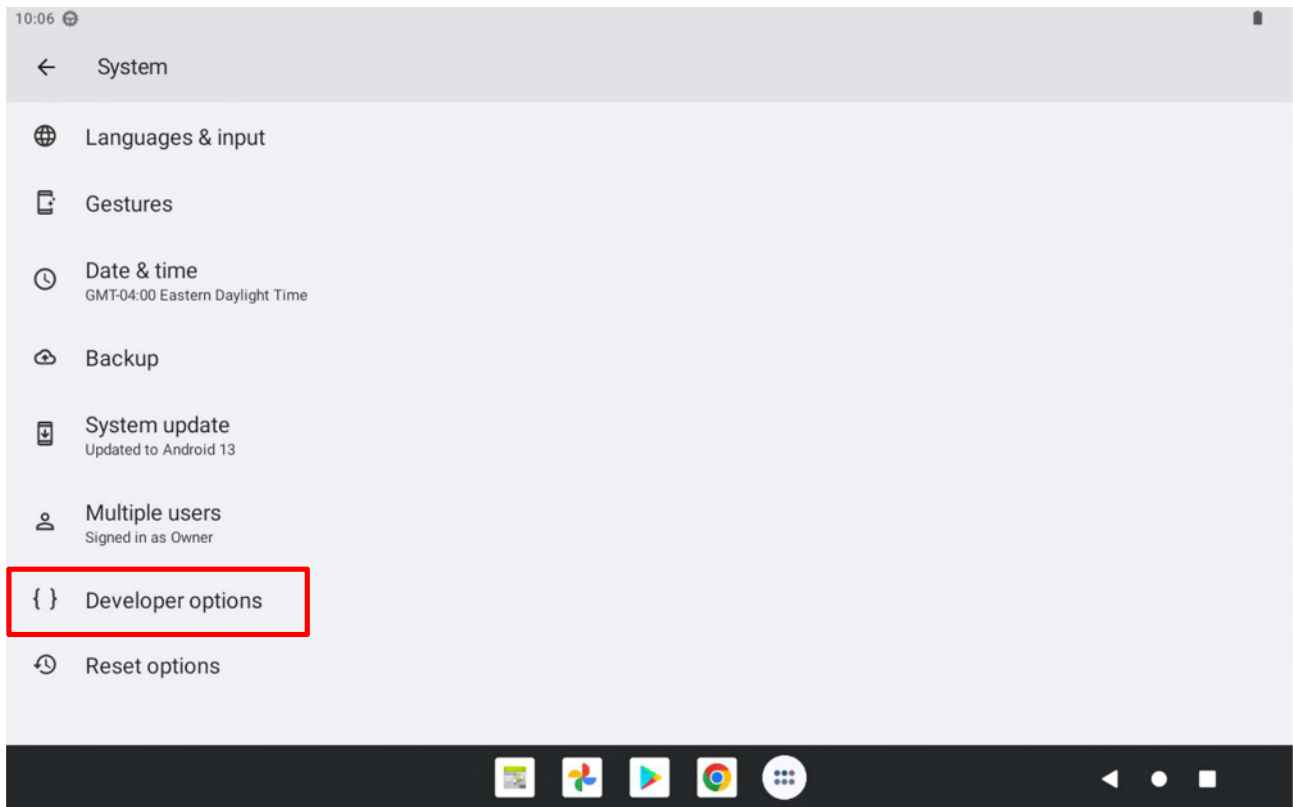




4. Back to the **Setting**, and then tap **System**



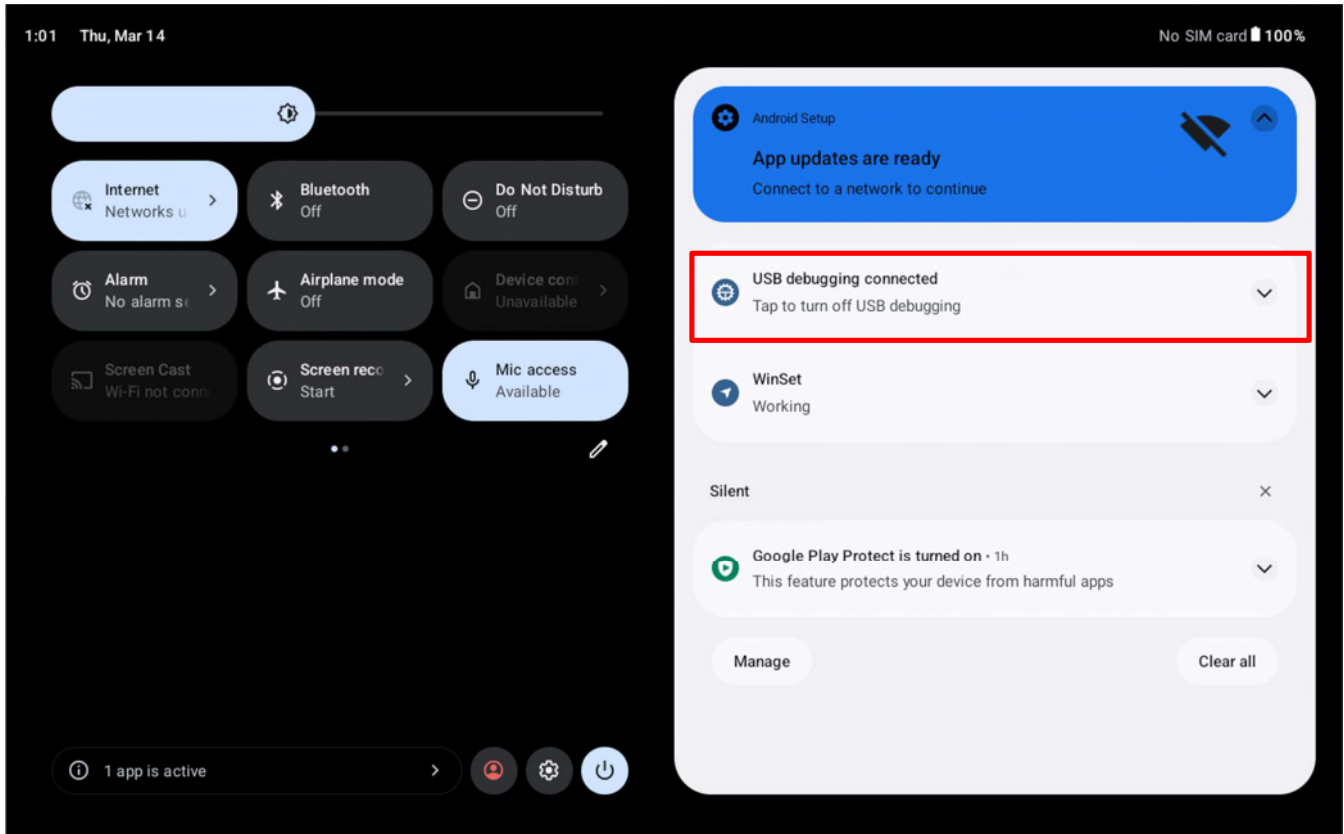
5. In the **Developer options**  user can choose the action to perform.





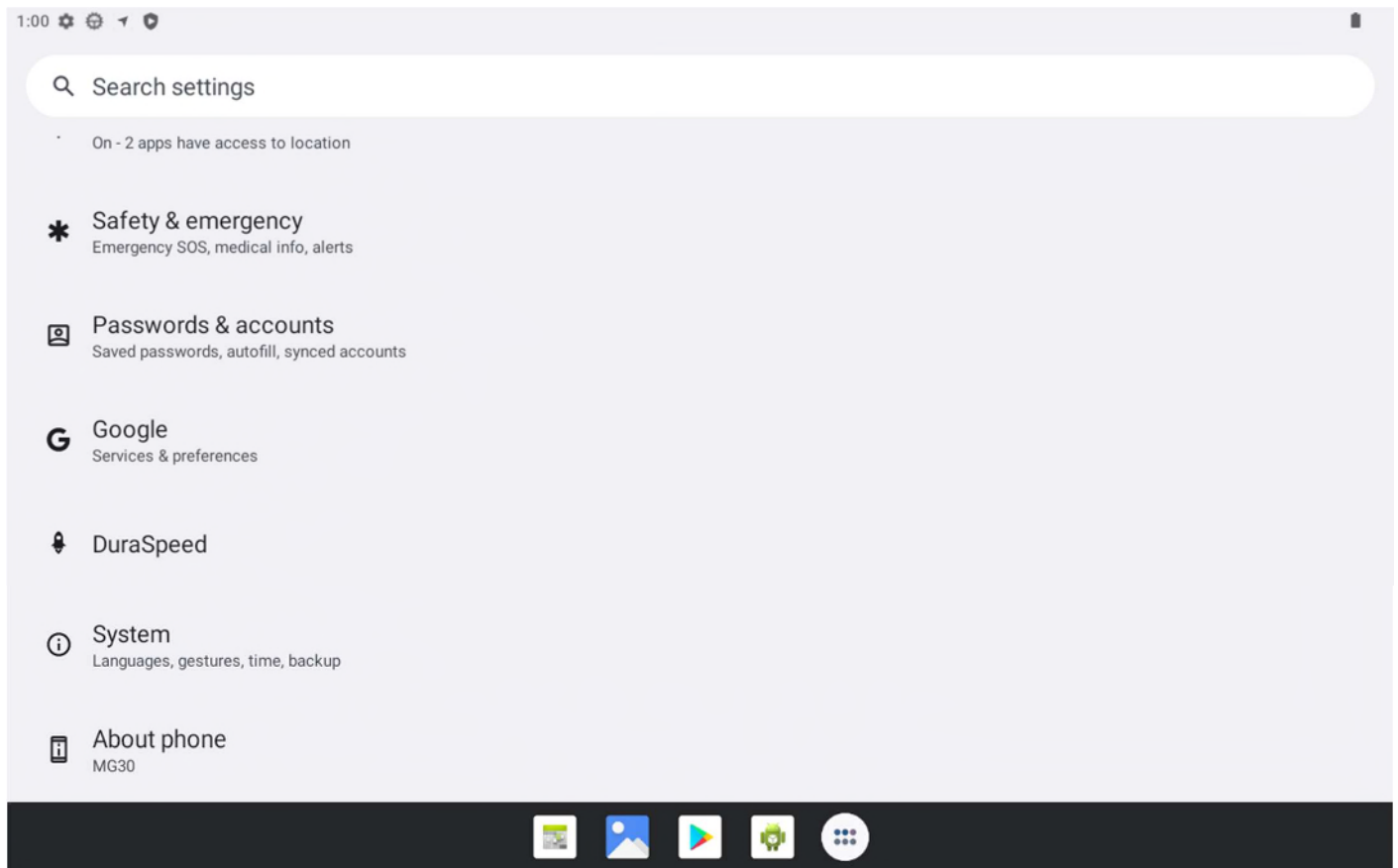
Important: Carefully follow your computer's instructions to un-mount the USB storage or SD card. Disconnect USB device not properly can cause a loss of important data or information.

6. Pull down the screen to open notification panel. Tap **USB debugging connected**.

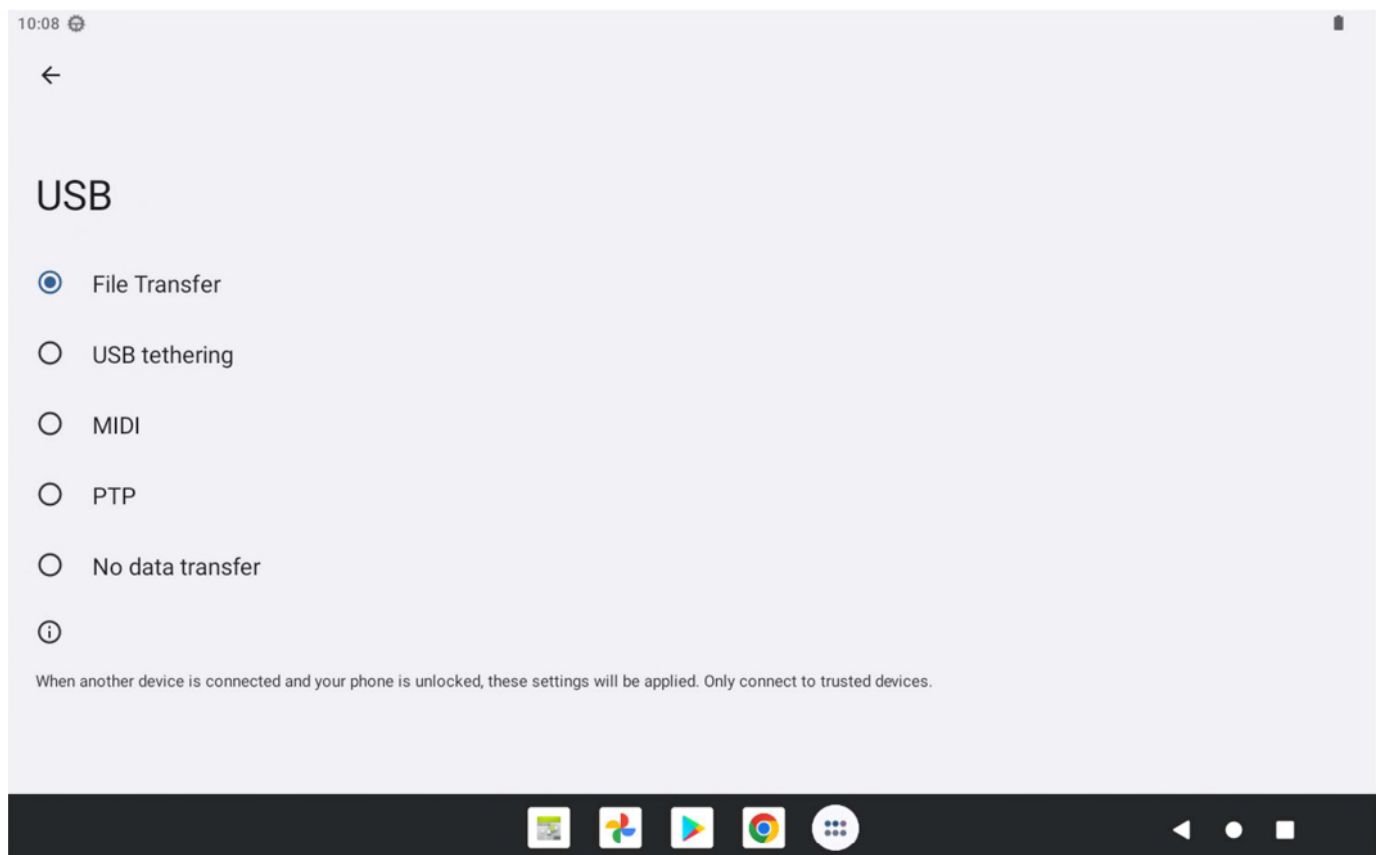
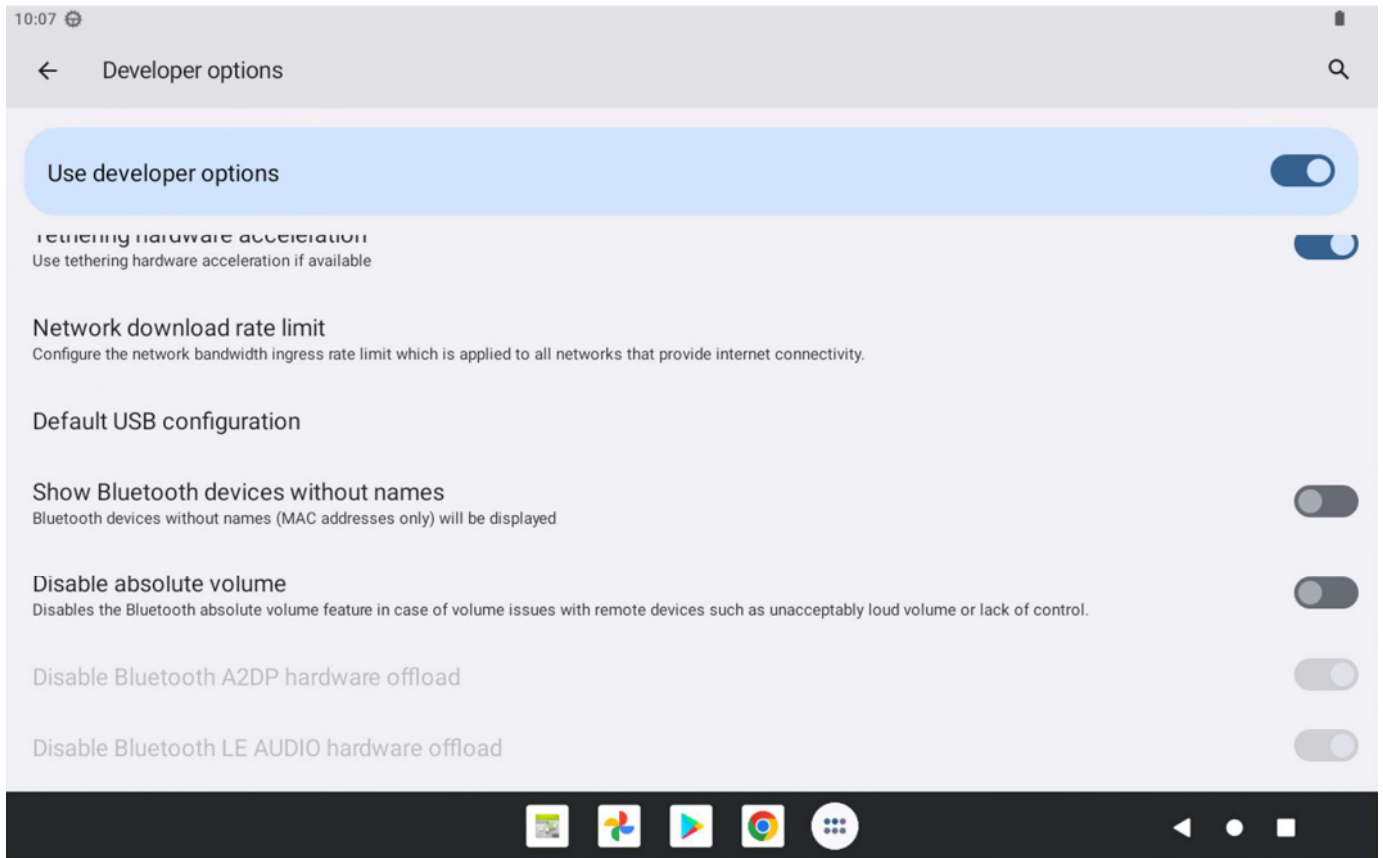


3.7.3.2 USB Computer Connection

1. Connect HMI to the computer via USB connector.
2. Tap **System** ⓘ, tap Develop options.



3. **Default USB Configuration** choose the type of USB connection.
 - **File Transfer** – let user transfers files between computer and HMI.
 - **PTP** – let users transfer photos or media files if MTP is not supported.
 - **MIDI** – let users use device as MIDI.
 - **No data transfer**– disable data transfer.



3.8 Software Update

Follow the software update guide to update the software. All the programming guides can be found in the Winmate Download Center.

You need to download the software to the SD card. Insert SD card to the FM07MG-K device to perform OTA Updates.

3.8.1 Image Tool Download

Download OS Image Tool update guide from Winmate Download Center.

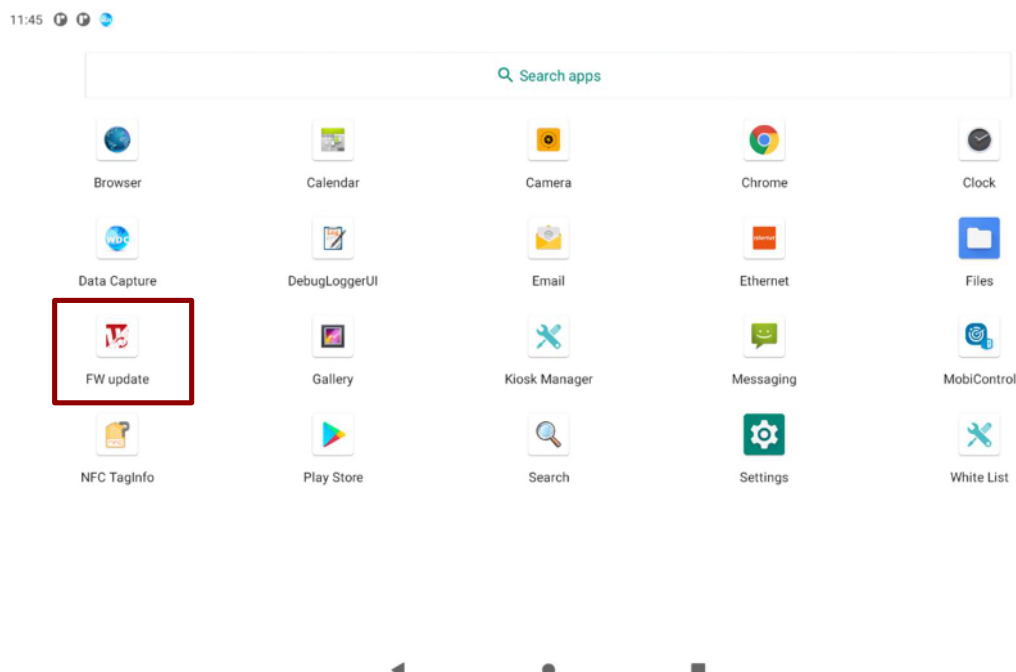
<https://www.wimate.com/> > Support > Download Center

3.8.2 OTA Update Guide

OTA is a tool which can help you to update OS image. To receive Android OS image file contact our sales representatives. Once you get the image file follow the guideline below.

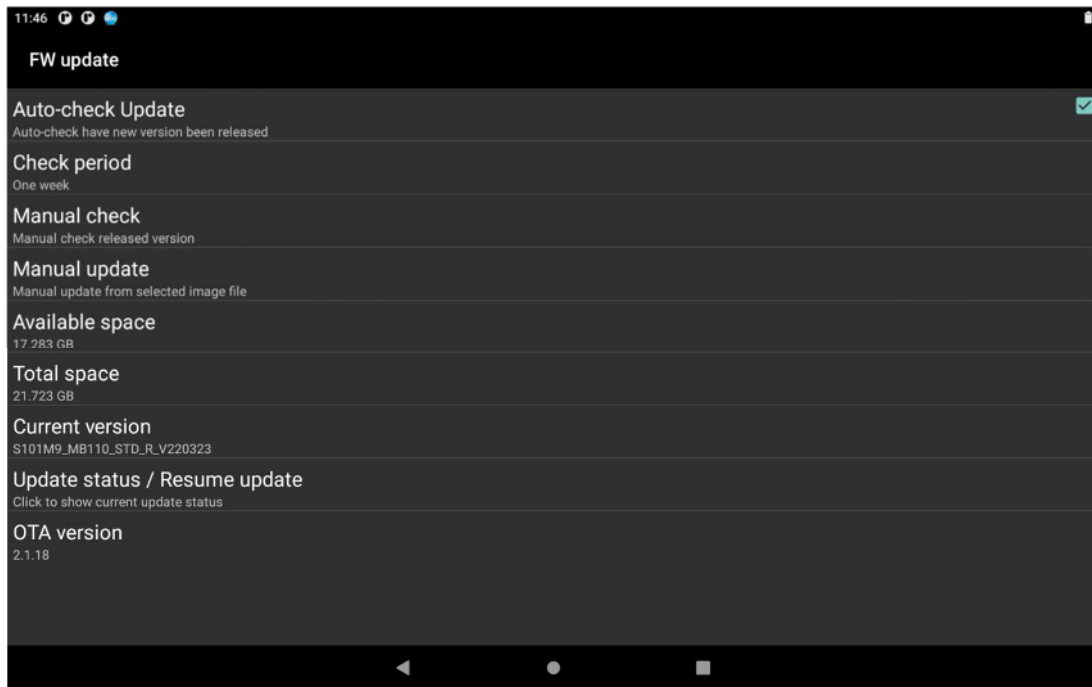
1. Copy image files **ota_MG30A_X_X_X_X.zip** and **IM30A_X_X_X_X.md5** and to micro SD card.
2. Insert micro SD card to the slot in the HMI device.

In the **APPS** menu tap **FW Update** .

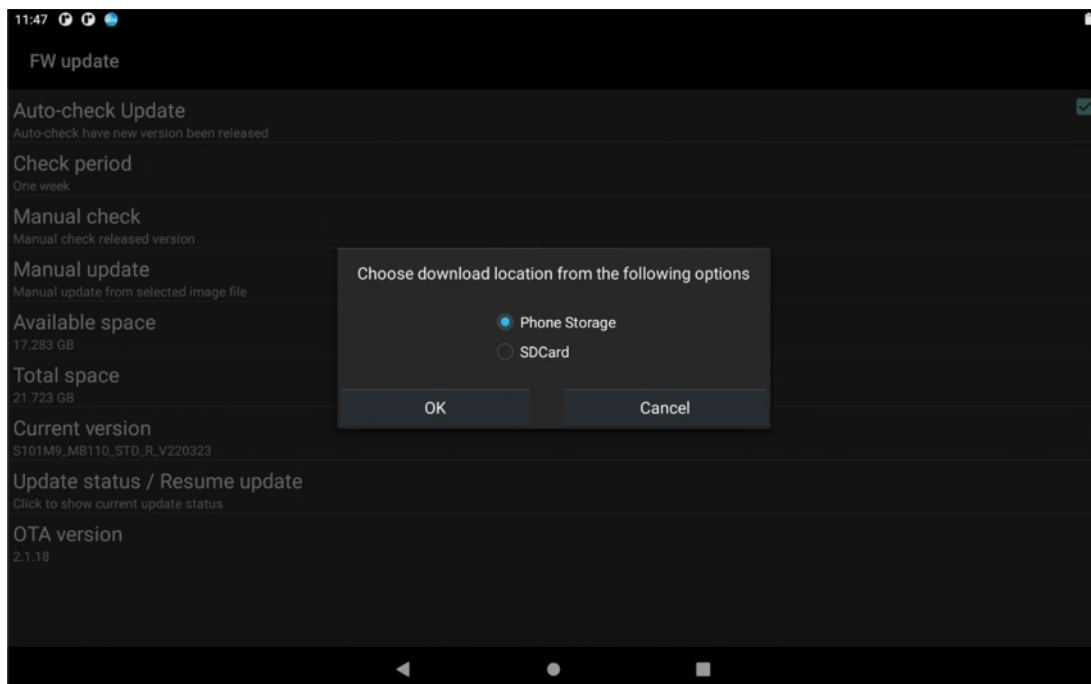


System shows OTA firmware related information.

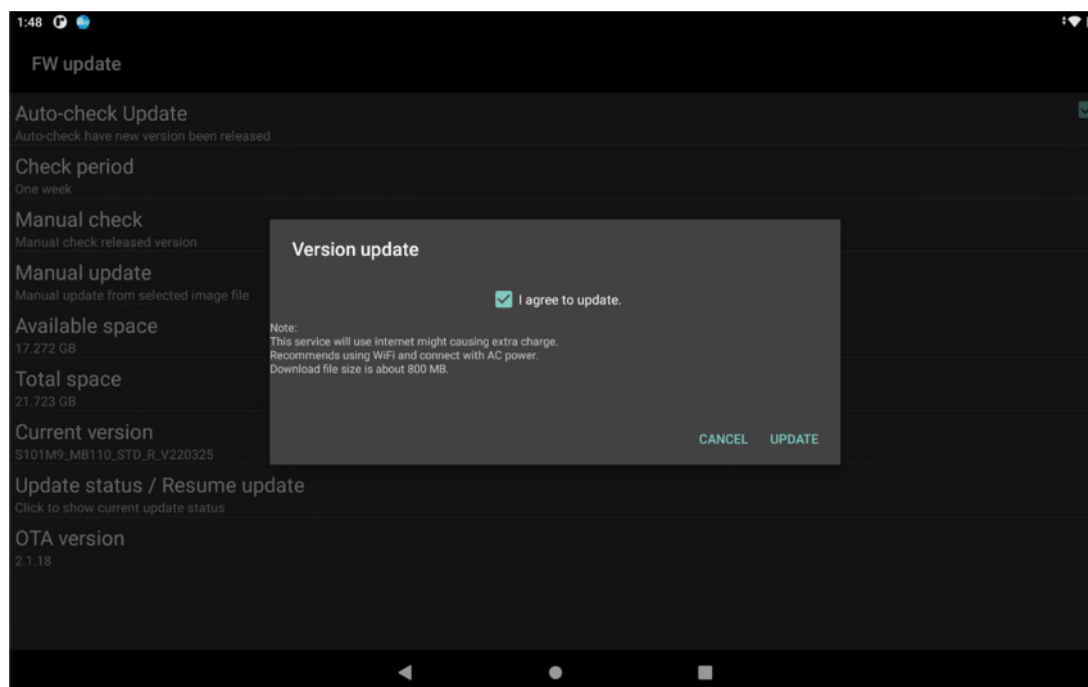
3. Click **Manual Update**. The system is checking OTA File. It may take some time.



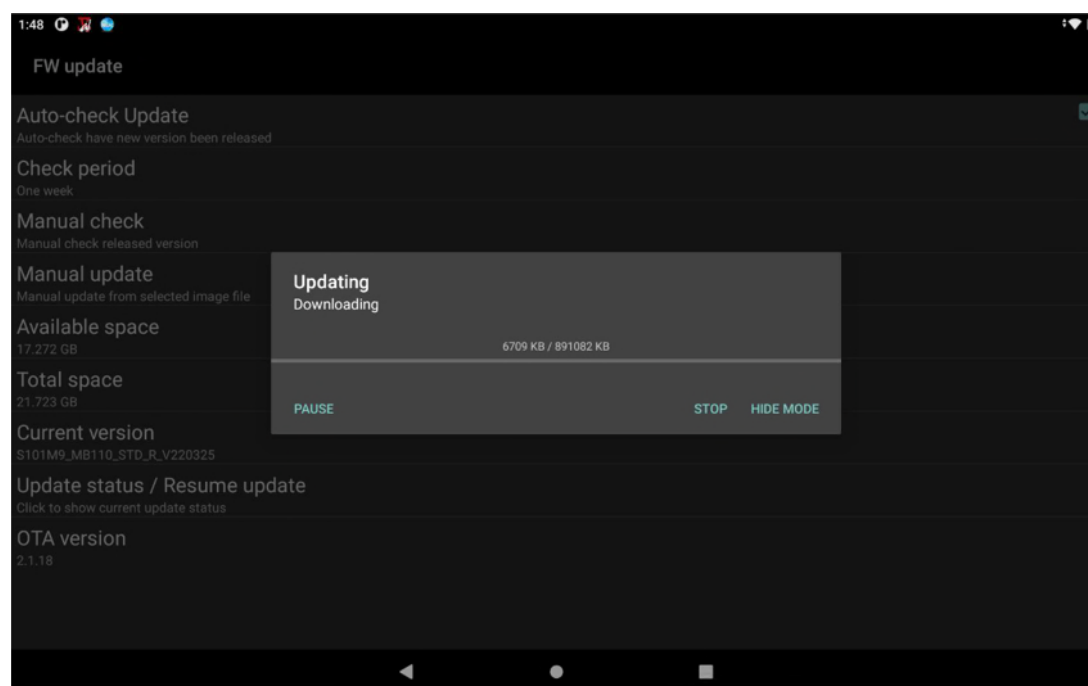
4. Choose download location.



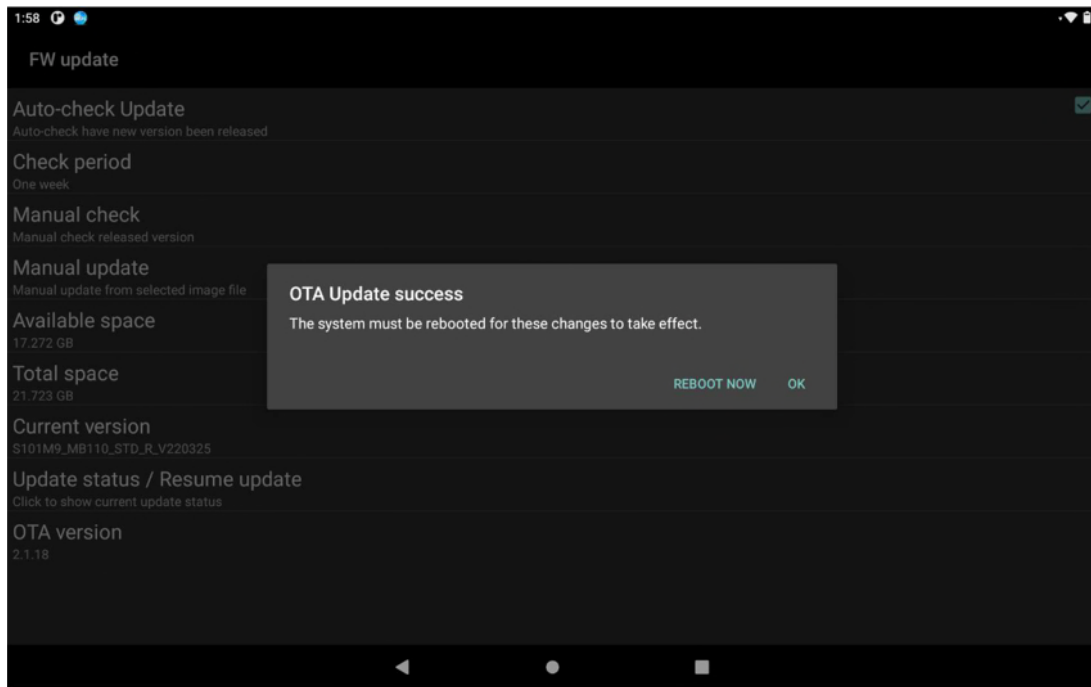
5. Check the **I agree to update**, then click **Update**.



6. Wait for download finish it will take some time.



7. Click **REBOOT NOW**.



8. Wait for OTA to update.



Important: Do not disconnect the power source! Do not remove the battery!

9. When Update finish, the computer opens desk screen.

Chapter 4: Vehicle Mounting

This chapter describes how to mount the FM07MG-K Vehicle Mount Computer. The FM07MG-K is designed to be mounted inside the vehicle with RAM mount or VESA mount.

4.1 Vehicle Mount Instruction

Make sure that the FM07MG-K does not obstruct the driver's vision and ensures safe driving. The general steps to mount the device on the vehicle are as follows:

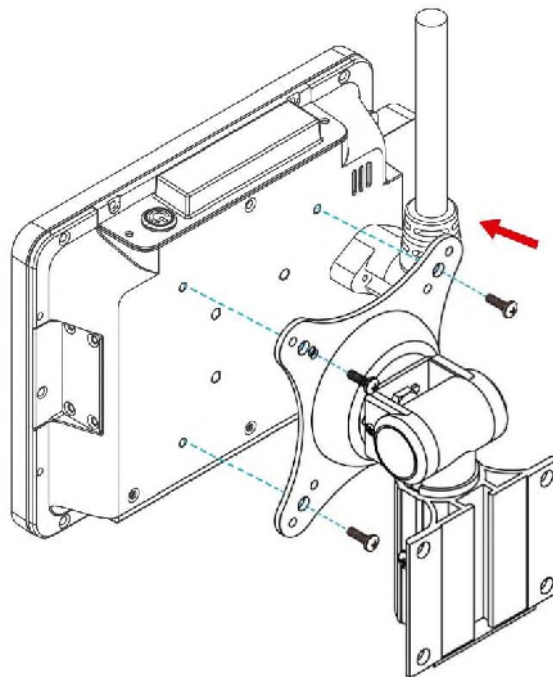
1. Install RAM mount to the vehicle.
2. Adjust the viewing angle of the FM07MG-K.
3. Install antennas if necessary.
4. Connect peripheral devices and cables.
5. Connect vehicle power.
6. Secure all cables.

4.2 VESA Mount Installation

The rear cover of the FM07MG-K supports VESA mount (75 x 75 mm).

VESA Mounting Installation Instructions:

1. Attach the VESA Plate to the rear cover of the FM07MG-K using 4 x M4 mm Phillips screws.
2. Follow instructions provided by VESA mount parts supplier.



4.3 RAM Mount Installation

Winmate recommends using RAM Mounting Parts as part of our device mounting solution. The rear cover of this device is designed to be mounted to RAM Mount solutions, which provides different mounting options to fit any industrial use or vehicle. Please notice that mounting kits are not included in the standard package.

RAM Base Dimensions: 38.1 x 30 mm

Screw: 4 x M5-0.8x10 mm Phillips screws

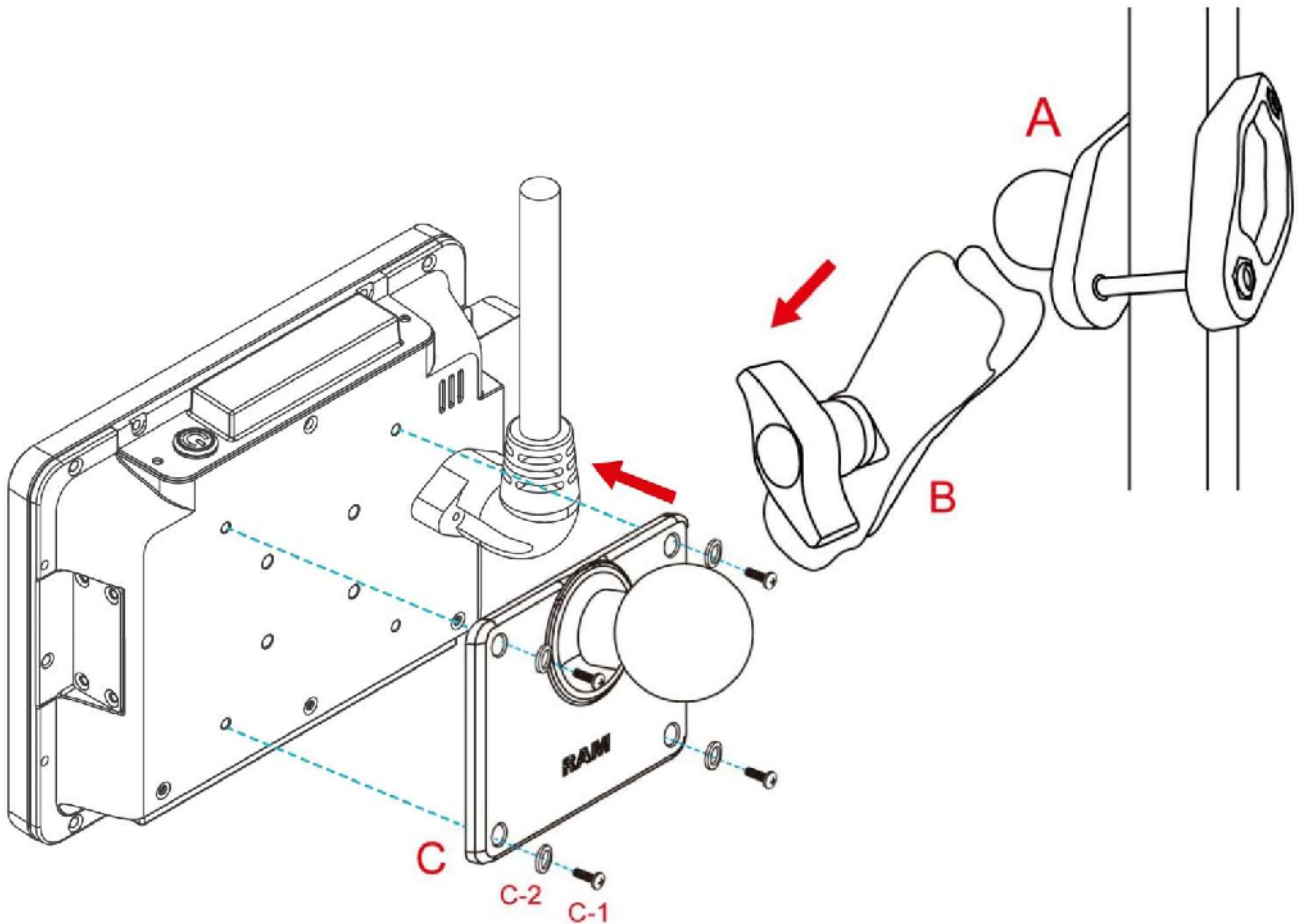


Important:

The information below is just a guideline on how you should mount the Winmate device using RAM Mount. To purchase the RAM parts, please follow the RAM Mounts Part and purchase from your preferred retailer.

4.3.1 Mounting 1 – No Drill Solution

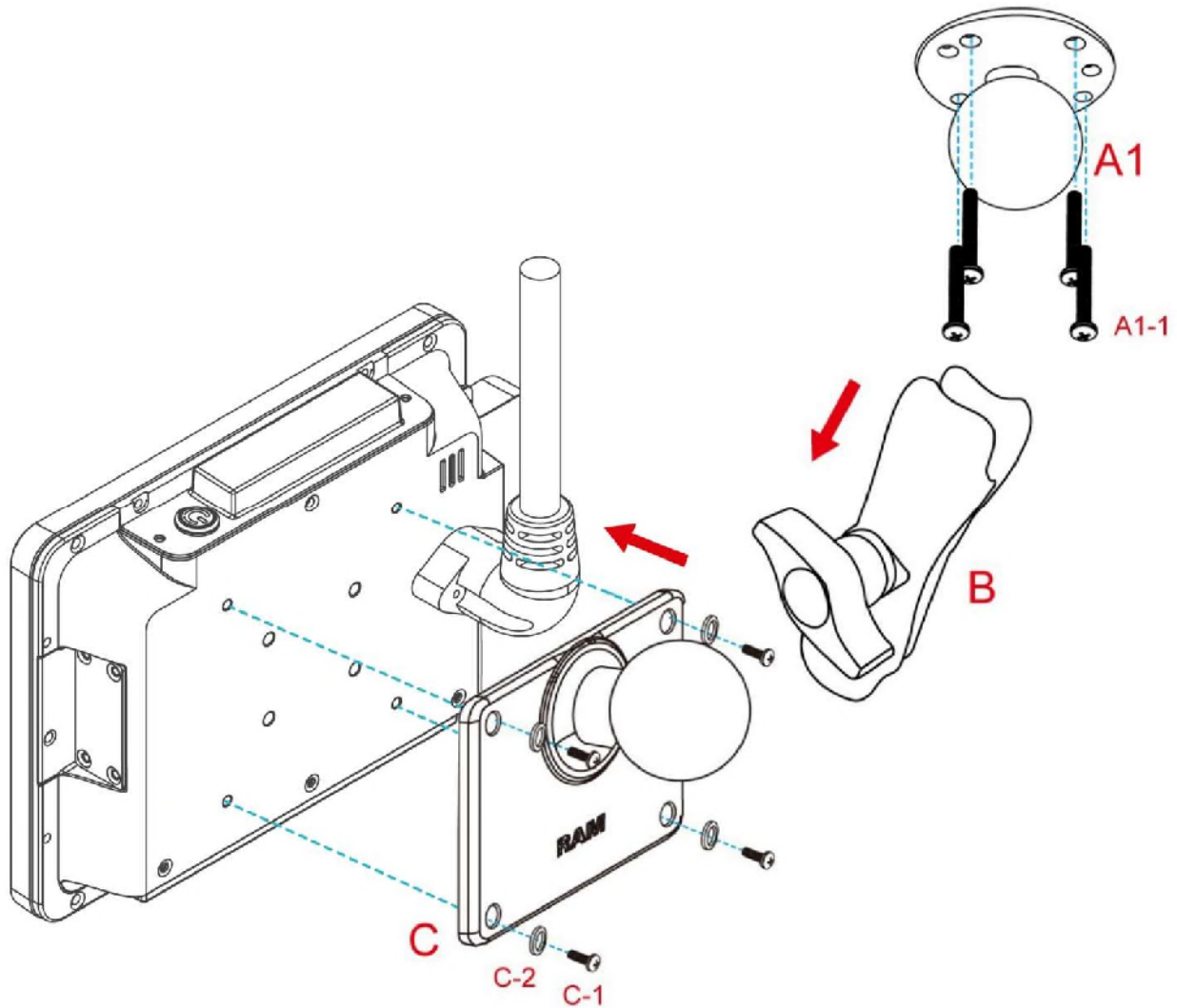
You can order mounting accessories from RAM Mounts.



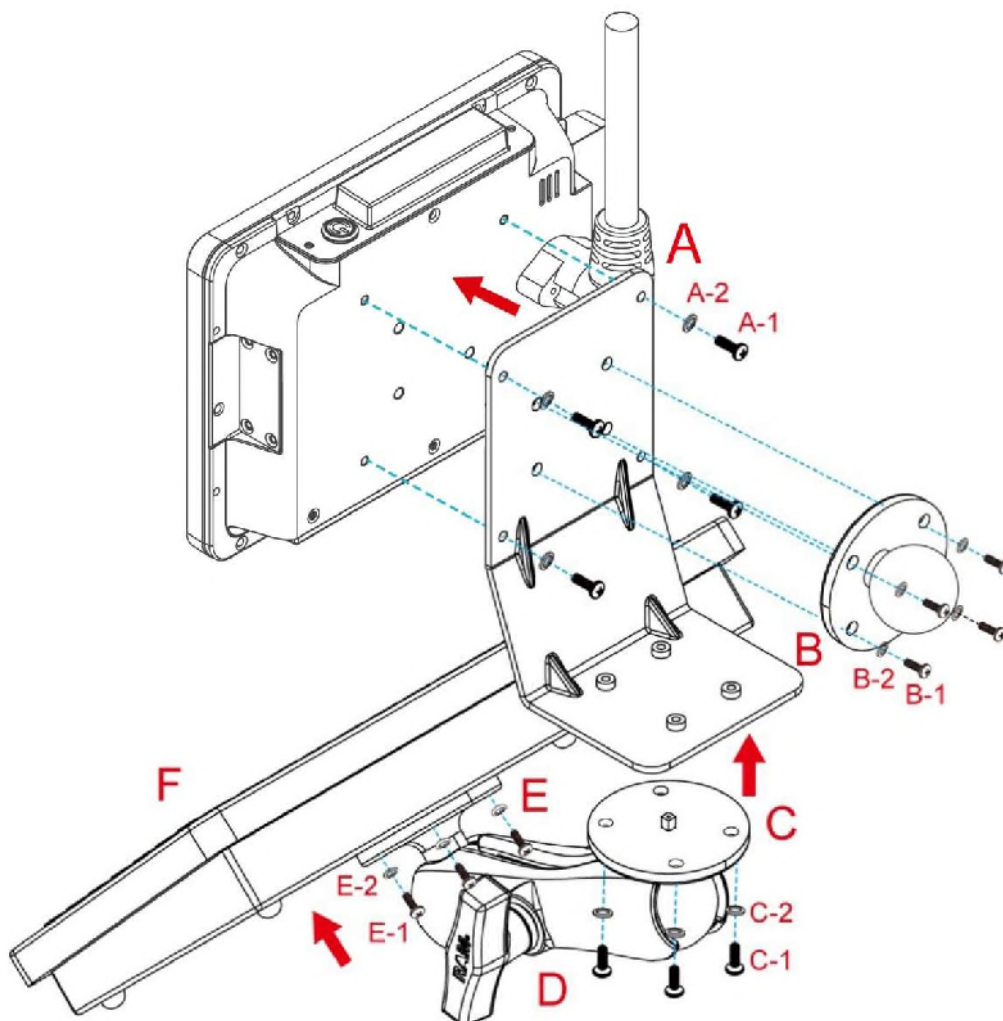
No	Component	RAM Mount Part Number	Description	QTY
A	RAM Clamp Mounts - on the forklift	RAM-D-247U-4	Clamp base with 2.25" Ball	1
B	RAM Arm	RAM-D-201U	Arm for 2.25" Ball(L:8.375")	1
C	RAM Ball on the device side	RAM-D-2461U	75x75mm VESA with 2.25" Ball	1
C-1	Screw	-	SUS304 M4 x 12mm Screw	4
C-2	Washer	-	M4 Washer	4

4.3.2 Mounting 2 – Drill Solution

You can order mounting accessories from RAM Mounts.



No	Component	RAM Mount Part Number	Description	QTY
A1	RAM round base mounts - on the forklift	RAM-D-202U	3.68" Round Base with 2.25" Ball	1
A1-1	Screw	-	SUS304 M8 x 40mm Screw	4
B	RAM Arm	RAM-D-201U	Arm for 2.25" Ball (Length:8.375")	1
C	RAM Ball on the device side	RAM-D-2461U	75x75mm VESA with 2.25" Ball	1
C-1	Screw	-	SUS304 M4 x 12mm Screw	4
C-2	Washer	-	M4 Washer	4



No	Component	RAM Mount Part Number	Description	QTY
A	Winmate Keyboard Adapter Plate (designed by Winmate)	-	4 VESA Holes on the plate to device and 4 AMPS holes to RAM Ball	1
A-1	Screw	-	SUS304 M4 x 10 mm Screw	4
A-2	Washer	-	M4 Washer	4
B	RAM Ball on the sloped part of the keyboard adapter plate	RAM-202U	2.5" Round Base with 1.5" Ball	1
B-1	Screw	-	SUS304 M5 x 16 mm Screw	4
B-2	Washer	-	M5 Washer	4
C	RAM Ball on the bottom part of the keyboard adapter plate	RAM-202U	2.5" Round Base with 1.5" Ball	1
C-1	Screw	-	SUS304 M5 x 12 mm Screw	4
C-2	Washer	-	M5 Washer	4
D	RAM Arm	RAM-201U	Arm for 1.5" Ball (Length:5.6")	1
E	RAM Ball on the sloped part of the keyboard adapter plate	RAM-202U	2.5" Round Base with 1.5" Ball	1
E-1	Screw	-	SUS304 M5 x 12mm Screw	4
E-2	Washer	-	M5 Washer	4
F	Keyboard	-	-	1

NOTES

NOTES



Contact Us

**Winmate Inc.**

No. 18, Zhongxing S. St.,
Sanchong Dist.,
New Taipei City 241017, Taiwan
Tel +886-2-8511-0288
E-mail sales@winmate.com.tw
Website www.winmate.com

**Winmate Germany
TL Electronic**

Bgm.-Gradl-Straße 1
85232 Bergkirchen-Feldgeding
Tel +49 8131 33204-0
E-mail info@tl-electronic.de
Website www.tl-electronic.de

**Winmate USA Inc.**

2640 Mathews Street,
Smyrna, GA 30080, USA
Tel +1 678-653-8800
E-mail NASales@winmate.com.tw
Website www.winmate-rugged.com

**北京京融电自动化科技有限公司
苏州办事处**

215100 江苏省苏州市工业园区唯新路69号
一能科技园3号楼206室
Tel +86-512-6826-6696/6829-6696
E-mail sales@winmate.com.cn
Website www.winmate.com.cn

**TTX Canada Inc.**

150 Werlich Drive, Units 5&6
Cambridge, Ontario, N1T 1N6 Canada
Tel +1-519-621-1881
E-mail Sales@ttx.ca
Website www.ttx.ca

**Winmate Japan
HPC Systems Inc.**

LOOP-X 8F, 3-9-15 Kaigan,
Minato-ku, Tokyo 108-0022, Japan
Tel +81-3-5446-5535
FAX +81-3-5446-5550
Website www.hpc.co.jp

**Winmate Switzerland
Primelco Visual Data AG**

Neuhofstrasse 25
6340 Baar
Tel +41 41 767 01 70
E-mail product@primelco.ch
Website visualdata.primelco.ch
