

M900MGN Series

8-inch Rugged Android Tablet

ARM Genio 510 2 x A78 2.0GHz + 4 x A55 2.0GHz CPU Android 13.0



User Guide

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Chapter 1: Read Me First

This chapter provides safety information, handling and maintenance precautions and other important information about using the M900MGN Series rugged tablet.

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

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



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

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

1.2 Safety Information



Precaution on Battery Pack Précaution avec le bloc-pile

Do Not Disassemble, Modify, or Insert Sharp Objects Into the Battery Pack. Electrolyte leakage, generation of heat, ignition or rupture may result.

[FR] Ne pas démonter, modifier, ou insérer des objets pointus à l'intérieur du bloc-pile. Une fuite d'électrolyte, la génération de chaleur. l'amorcage ou la rupture peuvent être occasionnés.

Do Not Short the Positive (+) and Negative (-) Terminals of the Battery. Generation of heat, ignition or rupture may result. When carrying or storing the device, do not place the battery pack together with articles that may contact electricity.

[FR] Ne pas court-circuiter les bornes Positive (+) et Négative (-) de la pile, la génération de chaleur, l'amorçage ou la rupture peuvent être Lors du transport et du occasionnés. rangement de l'appareil, ne pas placer le blocpile en même temps que des articles pouvant créer un contact électrique.

Do Not Apply Shocks to the Battery by Dropping It or Applying Strong Pressure to It. Electrolyte leakage, generation of heat, ignition or rupture of battery may occurs.

[FR] Ne pas faire subir de choc à la pile en la laissant tomber ou en appliquant une forte pression dessus. Une fuite d'électrolyte, la génération de chaleur, l'amorçage ou la rupture peuvent être occasionnés.

Do Not Charge the Battery Other Than Methods Those Specified In This Manual. If the battery is not charged using one of the specified methods, electrolyte leakage, generation of heat, ignition or rupture may result.

[FR] Ne pas charger la pile par d'autres méthodes que celles spécifiées dans ce manuel. Si la pile n'est pas chargée en utilisant l'une des méthodes spécifiées, une fuite d'électrolyte, la génération de chaleur. l'amorçage ou la rupture peuvent être occasionnés.

When the Battery Pack Has Deteriorated, Replace It with a New Battery. Continued use of a damaged battery pack may result in heat generation, ignition or battery rupture.

[FR] Lorsque la pile est détériorée, la remplacer par une nouvelle pile. L'utilisation continue d'une pile endommagée peut occasionner une génération de chaleur. l'amorcage ou la rupture de la pile.

Do Not Expose the Battery Pack to Excessive Heat, or Extreme Heat (Near Fire, in Direct Sunlight for example) Generation of heat, ignition or rupture may result

IFR1 Ne pas exposer le bloc-pile à une Chaleur Excessive, ou une Chaleur Extrême (Près d'un feu, sous la lumière du soleil par exemple)Une production de chaleur, l'amorçage ou la rupture peuvent être occasionnés

Do Not Use the Battery Pack With Any Other Products. The battery pack is rechargeable and is only designed for this specific product. If it is used with a product other than the specified product. electrolyte leakage. generation of heat, ignition or rupture may result.

[FR] Ne pas utiliser avec un autre produit La batterie est rechargeable et a été conçue pour un produit spécifique. Si elle est utilisée sur un produit différent

de celui pour lequel elle a été conçue, des pertes d'électrolytes et une production de chaleur sont possibles, elle risque également de prendre feu ou de casser.

Do Not Use This Product With Battery Other Than the One Specified.

[FR] Ne pas utiliser ce produit avec une batterie autre que celle spécifiée

Discontinue using device immediately if you notice the battery is swelling, or looks puffy or misshapen. Do not attempt to charge or use the device. Do not handle a damaged or leaking battery. Do not let leaking battery fluid come into contact with your eyes, skin or clothina.

[FR] Si vous remarquez une pile gonflée, élargie ou anormale, cesser l'utilisation de l'appareil immédiatement. N'essayez pas de recharger l'appareil ou de l'utiliser. Ne pas manipuler une pile qui fuit ou qui est endommagée. Ne laissez pas de liquide qui fuit entrer en contact avec vos yeux, votre peau ou vos vêtements.



General Product Safety Sécurité générale des produits

- Do not block any ventilation openings. Do not place the product against a wall or in an enclosed space as doing so might impede the flow of cooling air.
- [FR] Ne pas bloquer les ouvertures de ventilation. Ne pas placer le produit contre un mur ou dans un espace clos de façon à entraver circulation la de l'air refroidissement.
- 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).
- [FR] Ne pas placer le produit près d'une source de chaleur comme des radiateurs, les arrivées d'air chaud, poêles ou autres produits générant de la chaleur (y compris les amplificateurs ou autre équipement produisant de la chaleur.)
- 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.
- [FR] Empêcher le cordon d'alimentation d'être écrasé ou pincé, en particulier dans les zones de prises, des containers utilisés, et du point de sortie de l'appareil. Ne pas casser la broche de terre du cordon d'alimentation.
- 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.
- [FR] Ne pas ignorer la sécurité qu'une prise polarisée ou une prise de terre peut prévoir. Une prise polarisée se compose de deux fiches, dont l'une est plus large que l'autre. Une prise de terre possède deux lames et une troisième qui est la terre. Si la fiche principale fournie ne peut être insérée dans votre prise, consultez un électricien pour remplacer votre prise obsolète.

- Use only accessories specified the manufacturer
- [FR] Utiliser uniquement les accessoires spécifiés par le fabricant.
- This product should not be used near water such as bathtubs, sinks, swimming pools, wet basement, etc.
- IFR1 Ce produit ne dois pas être utilisé près de l'eau comme les baignoires, les éviers, les piscines, les sous-sols humides, etc.
- Use only with its transport carriage, stand, tripod, console or table specified by the manufacturer or sold with the product. When using a carriage, move the carriage assembly with the product carefully to avoid damage from falling over.
- [FR] Utiliser uniquement avec son chariot de transport, support, trépied, console ou table spécifiés par le fabricant ou vendu avec le produit. Lors de l'utilisation d'un charriot. déplacez l'ensemble chariot avec le produit avec soin pour éviter tout dommage de chute.
- Unplug this apparatus during lightning storms or when it is not being used for long periods.
- [FR] Débrancher cet appareil durant les orages ou lorsqu'il n'est pas utilisé pendant de longues périodes.
- Refer all servicing to qualified service personnel. A technical intervention is required when the apparatus has been damaged in any way, for example if the power cord or plug is damaged, liquid has been spilled or objects have fallen inside the unit, if the product has been exposed to rain or moisture, if it does not operate normally or if it has been dropped.
- [FR] Confier toute réparation à du personnel qualifié. Une intervention technique l'appareil nécessaire *lorsque* а été endommagé de quelque façon, par exemple si le cordon d'alimentation ou la fiche est endommagé, du liquide a été renversé ou des objets sont tombés à l'intérieur de l'unité, si le produit a été exposé à la pluie ou à l'humidité, s'il ne fonctionne pas normalement ou s'il a été ieté.



General Guideline Directive générale 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.

Il est recommandé de redémarrer l'appareil lorsque certaines fonctions sont défectueuses ou inactives. Si le problème persiste, veuillez contacter votre revendeur ou votre agent.

1.3 Handling and Maintenance



General Guideline Guide Général

Keep the product at least 13 cm (5 inches) away from electrical appliances that can generate a strong magnetic field such as TV, refrigerator, motor, or a large audio speaker. IFRI Garder le produit au moins à 13 cm (5 pouces) de distance des appareils électriques qui peuvent générer un fort champ magnétique comme une télévision, un réfrigérateur, un moteur, ou un important haut-parleur.

Do not place heavy objects on top of the tablet computer as this may damage the display. [FR] Ne pas placer d'objets lourds sur le dessus de l'ordinateur tablette cela peut endommager l'écran.

The screen surface can be easily scratched. Use with care. Do not use paper towels to clean the display but use the included cleaning cloth. Avoid touching it with a pen or pencil. [FR] La surface de l'écran peut être facilement rayée. Utiliser avec précaution. Ne pas utiliser de serviette en papier pour nettoyer l'écran mais utiliser le chiffon de nettovage inclus. Éviter de toucher avec un stylo ou un crayon.

To maximize the life of the backlight in the display, allow backlight to automatically turn off as a result of power management. Avoid using a screen saver or other software that prevents the power management from working.

[FR] Pour maximiser la durée de vie du rétroéclairage de l'écran, autoriser rétroéclairage résultant de la gestion de l'alimentation. Éviter d'utiliser un économiseur d'écran ou un autre logiciel empêchant la gestion de l'alimentation de fonctionner.



Cleaning Guideline Guide de nettoyage

Use a soft cloth moistened with water or a nonalkaline detergent to wipe the exterior of the

IFR1 Utiliser un chiffon doux humidifié avec de l'eau ou un détergeant non alcalin pour essuyer l'extérieur du produit.

Gently wipe the display with a soft, lint-free cloth. Do not use alcohol or detergent on the product.

IFR1 Essuver délicatement l'écran avec un chiffon doux non pelucheux. Ne pas utiliser d'alcool ou un détergent sur le produit.



Touchscreen Guideline Guide de l'écran tactile

Use your finger or the stylus on the display. Using sharp or metallic object may cause scratches and damage the display, thereby causing errors.

[FR]Utiliser votre doigt ou le stylet sur l'écran. L'utilisation d'un objet pointu ou métallique peut provoquer des rayures.

Use a soft cloth to remove dirt on the display. The touchscreen surface has a special protective coating that prevents dirt from sticking to it. Not using a soft cloth may cause damage to the special protective coating on the touchscreen surface. To clean off hard to remove dirt, blow some steam on the particular area and gently wipe away using a soft cloth. [FR]Utiliser un chiffon doux pour enlever la poussière sur l'écran. La surface de l'écran tactile a un revêtement protecteur spécial empêchant la saleté de se coller à lui. Ne pas utiliser un chiffon doux peut endommager le revêtement spécial sur la surface de l'écran tactile. Pour nettoyer les saletés plus difficiles à enlever, souffler de la buée sur la zone particulière et essuyer doucement avec un chiffon doux.

Do not use excessive force on the display. Avoid placing objects on top of the display as this may cause the glass to break.

[FR]Ne pas utiliser une force excessive sur l'écran. Éviter de placer des objets au dessus de l'écran cela pourrait provoquer une cassure du verre.

When there is a noticeable discrepancy in the operation of the touchscreen function (your touch does not correlate to the proper location on the screen), recalibrate the touchscreen display.

[FR]Lorsqu'il y a un écart sensible dans le fonctionnement de l'écran tactile (votre contact ne correspond pas à la bonne position sur l'écran), recalibrer l'écran tactile.

1.4 Declaration of Conformity (DoC)

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

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 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 which case the user will be required to correct the interference at him own expense.

CE Notice (European Union)



Electromagnetic Compatibility Directive (2014/30/EU)

- EN55024: 2010/ A1: 2015
 - o IEC61000-4-2: 2009
 - o IEC61000-4-3: 2006+A1: 2007+A2: 2010
 - o IEC61000-4-4: 2012
 - o IEC61000-4-5: 2014
 - o IEC61000-4-6: 2014
 - IEC61000-4-8: 2010
 - o IEC61000-4-11: 2004
- EN55032: 2012/AC:2013
- EN61000-3-2:2014
- EN61000-3-3:2013

Low Voltage Directive (2014/35/EU)

EN 60950-1:2006/A11:2009/A1:2010/A12:2011/ A2:2013

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

Chapter 2: Getting Started

This chapter tells you step by step how to get the M900MGN Series Rugged Tablet up and running.

2.1 Introduction

Thank you for choosing the 8-inch Rugged Android Tablet Computer M900MGN Series.

The M900MGN Series is a compact rugged tablet with robust set of features designed to withstand industrial use while providing high tech solutions that increase productivity, improve safety, and reduce operational costs. The processing power comes from the ARM Genio 510 2 x A78 2.0GHz + 4 x A55 2.0GHz CPU for high performance. The tablet features a brilliant projective capacitive touch screen, which is outdoor viewable and offers 1280 x 800 pixel resolution.

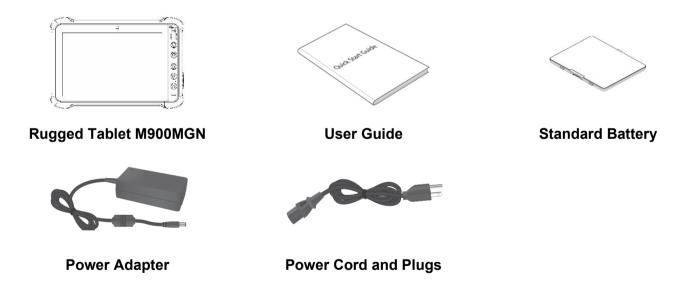
Highlights

- ARM Genio 510 2 x A78 2.0GHz + 4 x A55 2.0GHz CPU
- Android 13.0
- 4G RAM + 64G eMMC
- 8" daylight readable panel with direct optical bonding
- IP65 waterproof and dustproof
- Support NFC Module (Optional)
- Integrated 1D/2D Barcode Reader (Optional)

2.2 Package Content

Check and identify the standard supplied accessories.

Standard factory shipment list:



Your package may include other optional accessories based on your order.

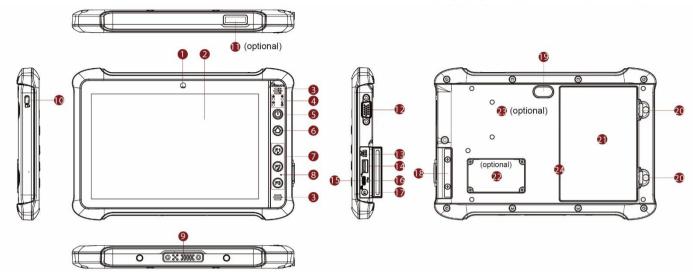
- Desk Dock DD-M900
- Vehicle Cradle VC-M900
- Battery Charger BC-M900
- PD Adapter

- Hand-Strap HS-M900
- Vehicle DockVD-M900P-E
- Vehicle DockVD-M900P

2.3 Description of Parts

M900MGN Series

Dimensions: 226.57 x 147.82 x 21.5 mm



No	Item		Description	
1	Camera		8 MP Webcam.	
2	8" 1280x800 Screen with PCAP Touch		Display and act as one of the inputs for the rugged tablet.	
3	1 Watt Spea	ker	Speaker for audio output.	
		b	Power indicator.	
4	LED Indicators, Light		Battery status indicator.	
7	Sensor, Mic	- 16 /5	Light sensor helps to adjust display backlight.	
		Q	Use during video recordings and communications.	
5	Power Butto	n	Power on/off tablet.	
6	Menu Buttoi	า	Opens main menu.	
7	Function Bu	ttons	Three programmable function keys.	
8	Mic		Use during video recordings and communications.	
9	Docking Connector		Port to docking solutions such as desk docking to provide power and external I/O.	
10	Kensington Security Slot		Insert the lock into the Kensington slot on the tablet and secure the lock with its key or its combination.	
11	Barcode Rea (Optional)	ader	Allows you to scan 1D/2D barcodes.	

No	Item	Description
12	LAN	To connect the LAN cable.
13	Audio Combo connector (Mic in and Line Out)	Connect headset or headphone (Mic is only supported with 3.5mm 4-pin headset).
14	USB 3.0 Type-A	USB 3.0 port connects to USB devices, such as USB flash drive, mouse, keyboard, printer, etc. 5V/0.9A.
15	USB 2.0 Type-C	Connects to USB devices, such as mouse, keyboard, printer, etc. Supports PD 3.0 (Power Delivery)
16	Reset Button	Press to reset the system.
17	Power Jack	Power input 19V DC,3.42A
18	Waterproof I/O Cover	Protect I/O ports from water and dust particles.
19	Rear Camera	13 MP camera with autofocus and LED light.
20	Battery Lock Latch	Latch to lock the battery in place once battery is inserted.
21	Battery	7.6V, typ. 4200 mAh Li Polymer Battery (2S2P), 10 hours operating time
22	4G/ LTE Module (Optional)	Service window provides access to 4G / LTE Module.
23	NFC Reader (Optional)	Optional NFC Reader for reading NFC tags.
24	Micro-SIM card & Micro SD card slot	Slot for Micro SIM card & Micro SD insert. (Behind the Battery)

2.4 Hotkey for Specific Functions

For the physical buttons on the tablet computer, in addition to its dedicated functions detailed in the previous section, it can also be used to emulate commonly used keyboard key strokes. Under different scenario, a single physical button or a combination of physical buttons provide different keyboard key strokes, which are specified below:

Button	Keystroke
Menu	Home
Fn1	Volume Up (Note 1)
Fn2	Volume Down (Note 1)
Fn3	Barcode trigger (Note 2)
Power	Power ON/ OFF

Note 1: Fn1/ Fn2 can be used to increase/ decrease level when Brightness or Volume bar appears.

Note 2: Fn3 is trigger button when connected with barcode scanner.

2.5 LED Indicators Description

The LED indicators show the status of Power, Battery and are located on the front panel of the M900MGN Series Rugged Tablet.

Indicator	lcon	Description
Power Indicator	٨	Blue – Tablet is on. No light – Tablet is off.
Battery Status Indicator		Orange – AC adapter is plugged in and the battery is charging. Green – AC adapter is plugged in and the battery is fully charged 90-100%. Solid Red – The remaining battery power is approximately 15-90%. Blinking Red – Charging in progress, the remaining battery power is less than 15%. No light – Battery is in use and the remaining battery power is more than 15%.

Chapter 3: First-Time Operation

This chapter tells you step by step how to get the M900MGN Series Rugged Tablet up and running.

3.1 First-Time Operation

To get started:

- Install a SIM card (If your device is equipped with 4G/LTE).
- Install a storage card.
- Install the battery.
- Charge your tablet.
- Start the tablet.

3.2 Installing SIM Card (For 4G/LTE Equipped Devices)

The Tablet Computer supports 4G/LTE data connection and fits a Micro-SIM card.

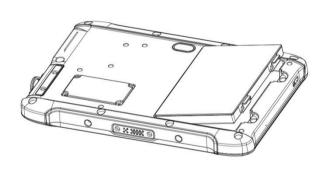


Caution Power off the tablet before installing the 4G/LTE module and Micro SIM card, or the tablet computer might be damaged by the incorrect installation behaviors.

Attention Éteignez la tablette avant d'installer le module 4G / LTE et la carte Micro SIM. sinon la tablette peut être endommagée par des comportements d'installation incorrects.

To install the SIM card:

- 1. Remove the battery.
- 2. The SIM card slot is located right next the battery connector.
- 3. Install SIM card into slot with IC facing down the contact patch.

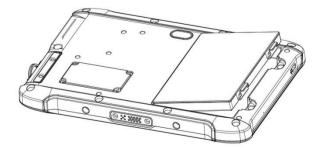


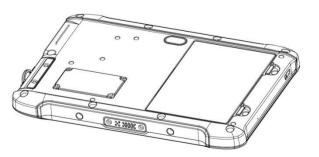


3.3 Installing Battery

To install the battery pack:

- 1. Disconnect any cords connected to the tablet computer.
- Turn the tablet over, back facing up.
- 3. Insert the battery on the connector-pins side first, and then lower the battery into the battery compartment. Continue to hold the latches before battery is fully inserted.
- 4. Make sure the battery is completely lowered into the compartment before letting go the latches. Battery will be flat against the housing once fully inserted.





To remove the battery pack:

- 1. Shut down the tablet. Disconnect any cords connected to the computer.
- 2. Turn the tablet computer over, back facing up.
- 3. Hold the latches and lift the battery up to remove the battery.

3.4 Charging Your Tablet

The tablet operates either on external AC power or internal battery power. It is recommended to use AC power when you start up the Tablet for the first time.

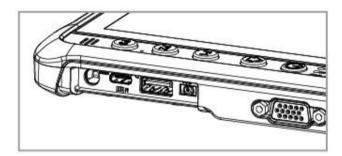


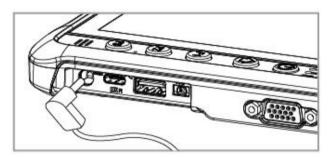
Caution Use only the AC adapter included with your Tablet Computer. Using other AC adapters may damage the Tablet Computer and the Battery.

Attention Utilisez uniquement l'adaptateur secteur fourni avec votre tablette. L'utilisation d'autres adaptateurs secteur peut endommager la tablette et la batterie.

To connect a tablet to AC power:

- 1. Open I/O protective cover by pulling out the latch.
- 2. Plug the DC cord of the AC adapter into the power jack of the tablet computer.
- 3. Plug the AC power cord into the AC adapter.
- 4. Plug the AC power cord into the electrical outlet.





The battery LED indicator shows different battery states:

Orange – AC adapter is plugged in and the battery is charging.

Green – AC adapter is plugged in and the battery is fully charged 90-100%.

Solid Red – The remaining battery power is approximately 15-90%.

Blinking Red – Charging in progress, the remaining battery power is less than 15%.

No light – Battery is in use and the remaining battery power is more than 15%.

Item	Battery Operation Time	Battery Charging Time
Standard Battery	10 Hours	2.5 Hours*

Note: Battery charging time is calculated when the battery is charging when the device is in shutdown state.

3.5 Starting the Tablet



Important: When powering on the device for the first time, please make sure there's no interruption during the Windows setting up process, for example, accidentally powering off. If it happened, please access the recovery menu by pressing **Fn1** button on the front bezel to initiate recovery process.

Press and hold the power button for 3 seconds until the blue LED power indicator light up.



Note: Do not press the power button repeatedly.

Do not perform the following operations until the Disk Activity Indicator off

- Connecting or disconnecting the AC adapter
- Pressing the power button
- Touching the tablet buttons, screen, or external keyboard/mouse

To power off the Tablet Computer:

- Make sure you have closed any programs that are open on the Desktop. Start Screen apps don't need to be closed.
- 2. Tap on the **Settings** charm.
- 3. Tap on **Power**.
- 4. Tap on **Shut Down**.
- 5. Wait for Tablet Computer to power off.



Note: The computer will forcibly be powered off if the power button is pressed and held for 6 seconds or longer.

Chapter 4: Using the Tablet

This chapter explains how to use the buttons, status icons, and controls of the M900MGN Series Rugged Tablet running on Android 13.0 operating system and provides instructions on entering and capturing data.

4.1 Using the Touch Screen

The touchscreen supports the core gestures for Android.

Gesture	Action	Description
Тар	€ 	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	والم	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	(m)	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	J h	Place two fingers on the screen and pinching them together.
Rotate	Thy	Two-finger press, simultaneously orbit both fingers around the center point, lift.

4.2 Waking Up the Tablet

If you do not use the tablet for a while, the screen dims and then darkens to conserve the Battery. To wake up the tablet:

- 1. Press the Power button on the top side of the tablet.
- upwards to unlock the screen. 2. Drag the lock icon



4.3 Using the Home Screen

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



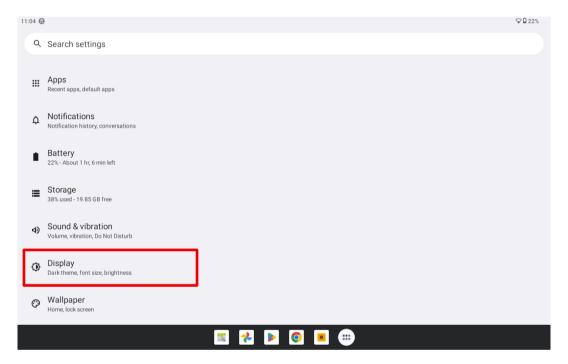
No.	Description
1	Status Bar – Shows the time, signal strength, battery status, and other notifications. I also displays notification icons.
2	Application – Shows applications that user can open directly on the home screen.
3	Launcher – Launcher icon to open the launcher and view all applications.

4.3.1 Personalizing Home Screen

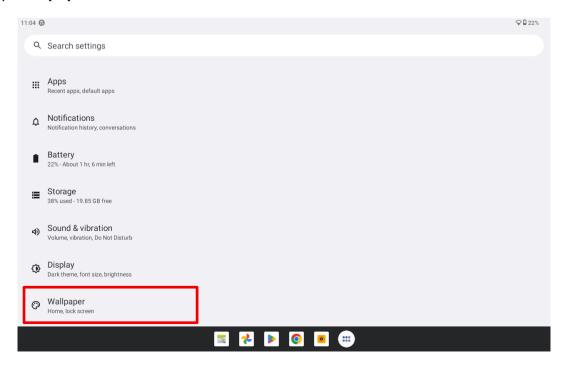
User can add application icons, shortcuts, widgets, and other items to any part of any Home screen where there is free space. User can also switch the wallpaper.

To change wallpaper on the HOME SCREEN:

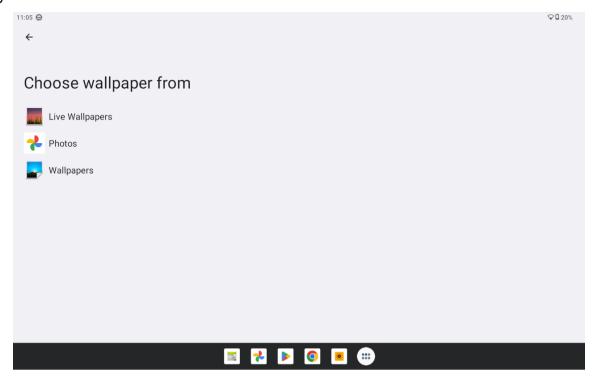
1. Open **MENU** and then tap **Settings**❖, and then tap **Display**⋯.



1. 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.

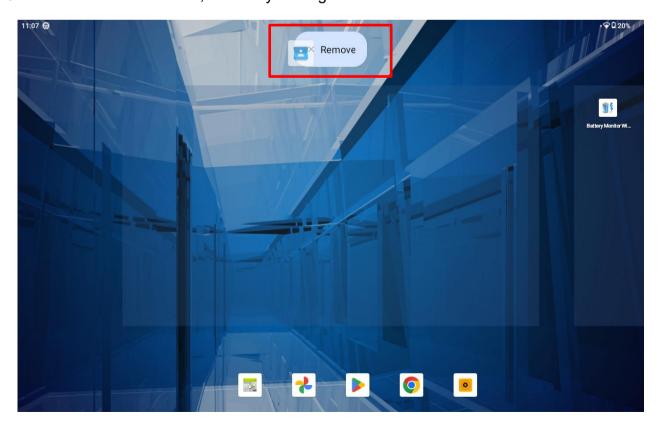


2. Place the item where you want to put it and lift your finger.



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.

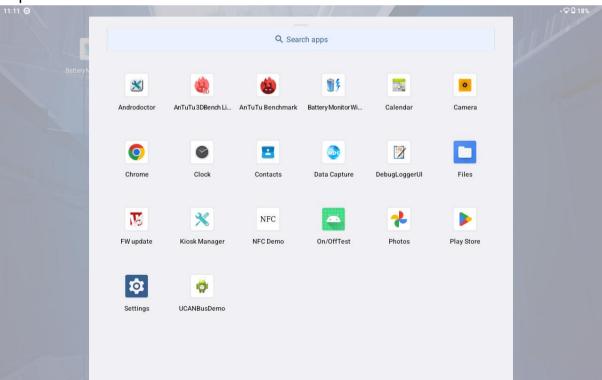


4.3.2 Viewing Other Parts of the Home Screen

1. Slide your finger left or right across the Home screen. Extensions to the Home screen provide extra space for APPS, shortcuts, and other items.



2. Tap the launcher icon to view the entire APPS of the device.



4.4 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.



4.4.1 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	S	Incoming call
j	New text or multimedia message	×	Missed call
Ø	Alarm is set	3	Speakerphone is activated
1	Upcoming event	*	Phone microphone is muted
O.	Data is syncing	1	Downloading data
A	Problem with sign-in or sync	*	Phone is connected via USB cable
	A screenshot is captured		

4.4.2 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:

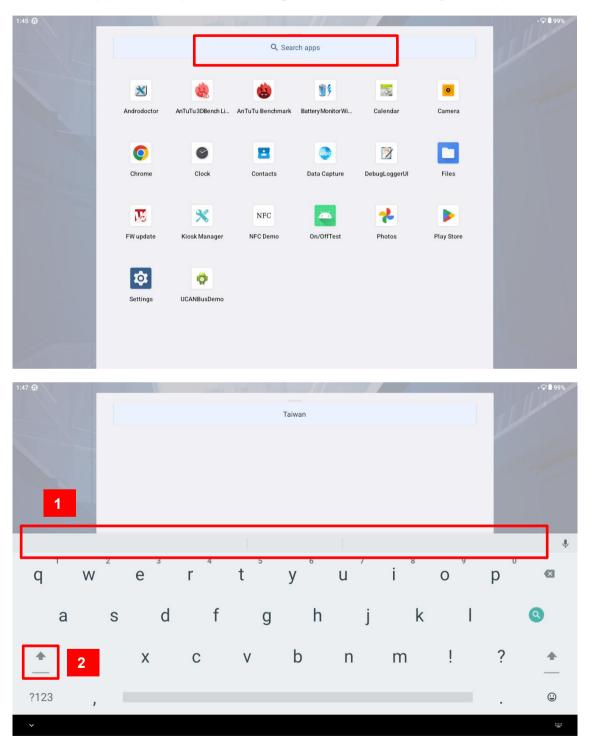
G	Connected to GPRS mobile network	*	Bluetooth is on
1X	Connected to 1xRTT mobile network	*	Connected to a Bluetooth device
ш	Connected to EDGE mobile network	2:	No SIM card installed
3G	Connected to 3G mobile network	\odot	Vibrate mode
4G	Connected to 4G mobile network	家	Ringer is silenced
af	Mobile network signal strength	•	Battery is very low
al.	Searching for a network signal	•	Battery is low
žď	No signal	•	Battery is partially drained
-	Connected to a Wi-Fi network		Battery is full
Δ	Roaming	(2	Battery is charging
+	Airplane mode	•	Receiving location data from GPS

4.5 Using the On-Screen Keyboard

User will be able to enter text using the On-Screen Keyboard. Some applications will launch the keyboard automatically. In others, user needs to touch a text field where user wants to enter text to launch the keyboard.

4.5.1 Entering Text

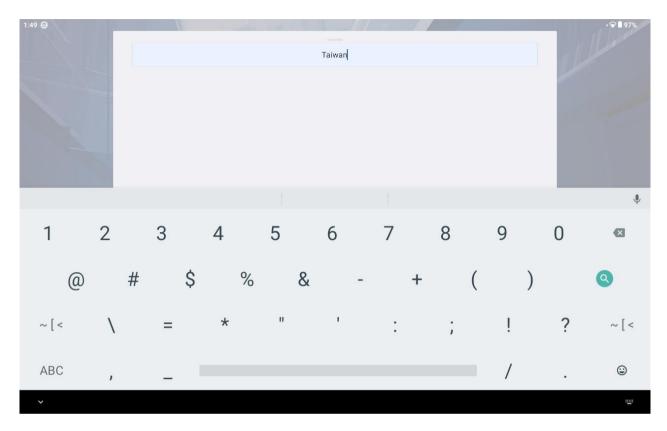
1. Use "Search apps" to compose a message. The On-Screen Keyboard opens.



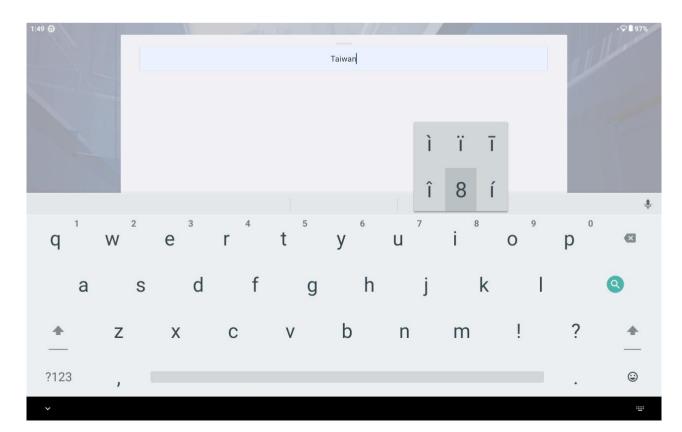
No.	Description
1	Suggestions – Tap a suggestion to enter it in the place of the underlined.
2	Capitalize – Tap once to capitalize the alphabet.

*If user taps in a text field which already contains text, the insertion point is set where user tap and the cursor appears. User can drag the cursor to pick exactly where you want to add more text. User can also select a word to copy, cut and paste it. See "Editing Text".

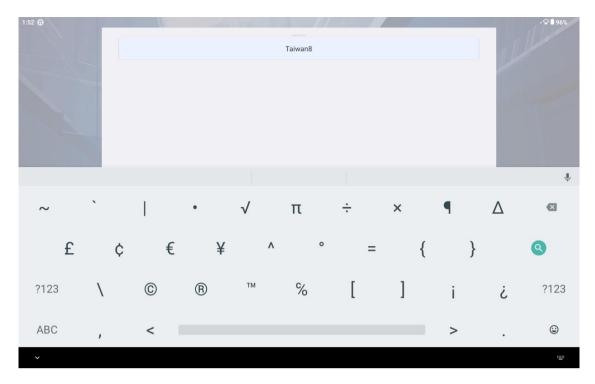
- 2. Tap the delete key are to erase characters to the left of the cursor.
- 3. Tap 2123 to enter numbers. Tap ABC to return to letters.



4. To enter symbols and other characters, tap and hold one of the top-row keys and slide your finger up to the list of the options. Lift your finger when you find your selection.



5. To view additional symbols, tap on the numeric keyboard.

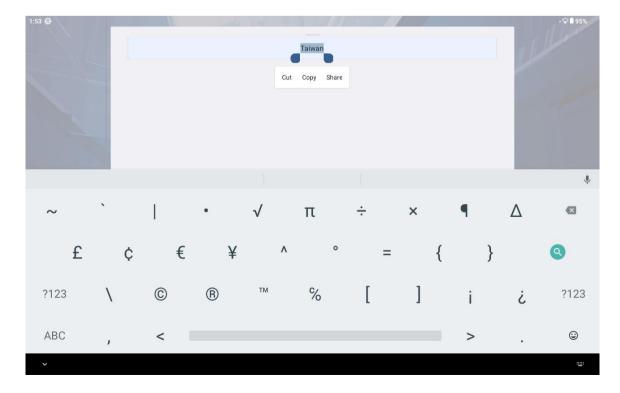


6. To close the On-Screen keyboard, press the back button on the top.

4.5.2 Editing Text

To select text:

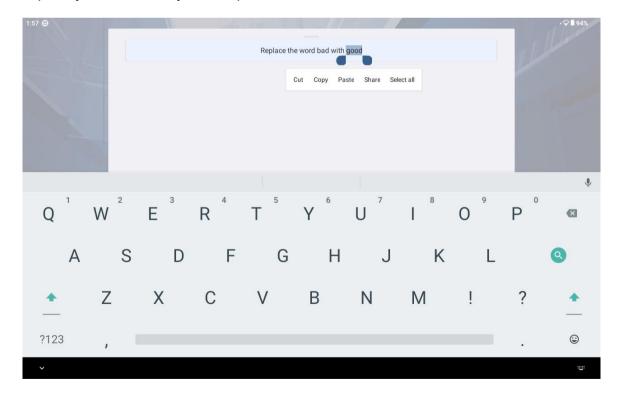
- 1. Double-tap the text you want to select.
- 2. Tap to select all the sentences in the menu that appears, the selected text is highlighted in blue, with a tab at each end of the selected word.
- 3. Drag selection tab to expand or reduce the range of the selected text.





To Cut or Copy Text:

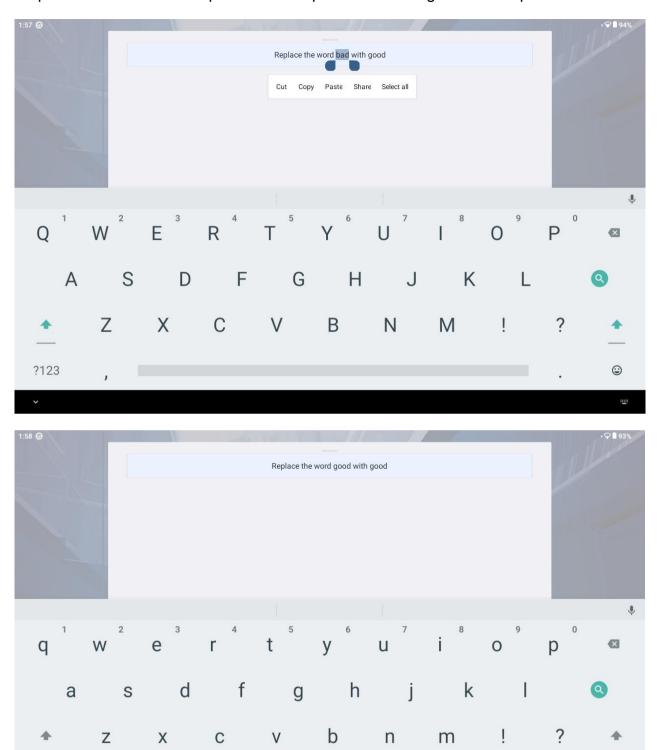
- 1. Select the text to cut or copy, see the section above "To select text".
- 2. Tap **CUT** or **COPY** in the Edit text menu.
- 3. If you select CUT, the selected text is removed from the text field; it is stored in temporary area so that you can paste it into different text field.



To Paste Text:

- 1. After Cut or Copy the text, see the section above "To Cut or Copy Text"
- 2. Place the cursor in the text field where you want to paste the text, user can paste text that you copied from one application into a text field in any application.

3. Tap and hold into the location that you want to paste. Tap PASTE in the menu that opens or user can also tap PASTE to replace the existing text with copied text.

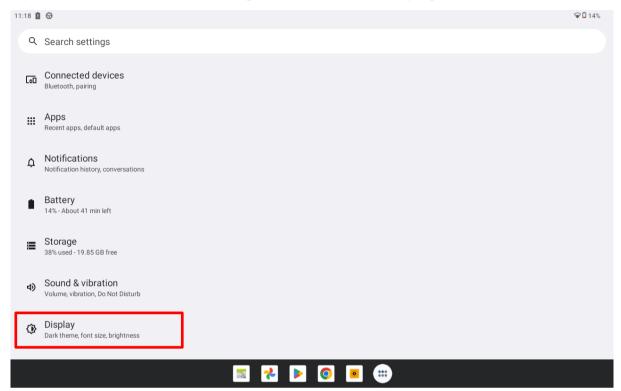


?123

4.6 Display Settings

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

1. Open MENU and then tap Settings , and then tap Display .

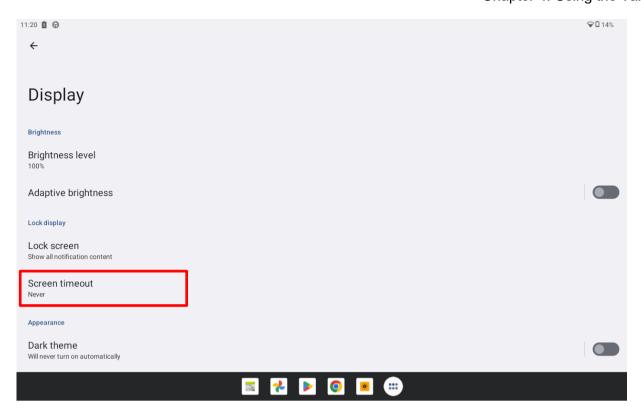


Display

- 1. *MiraVision*[™] to display picture quality optimization options.
 - a. **Brightness level** for adjusting the brightness of the screen.
- 2. Adaptive brightness to optimize brightness level for available light
- 3. Wallpaper to select wallpaper
- 4. **Sleep** to set up the device's sleep mode after the specified period of inactivity
- 5. Press power button twice for camera Quickly open camera without unlocking your
- 6. **Battery Percentage** to control battery percentage display.
- 7. **Screen saver** to control what happens when the tablet is docked and/or sleeping, turn screen saver on
- 8. **Font size** Make the text on screen smaller or larger
- 9. Display size Make the items on your screen smaller or larger. Some apps on your screen may change position.
- 10. When device is rotated for switching the orientation of the screen when user turns the device sideways or upright.
- 11. Cast allows displaying whatever is visible on the device's screen on another screen, mostly wirelessly using Wi-Fi as a medium for sharing the screen.



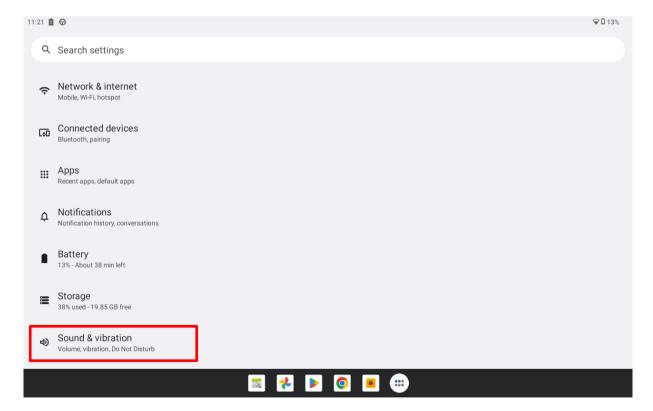
Note: For the longest battery life between charges, use the shortest Sleep time.



4.7 Sound Settings

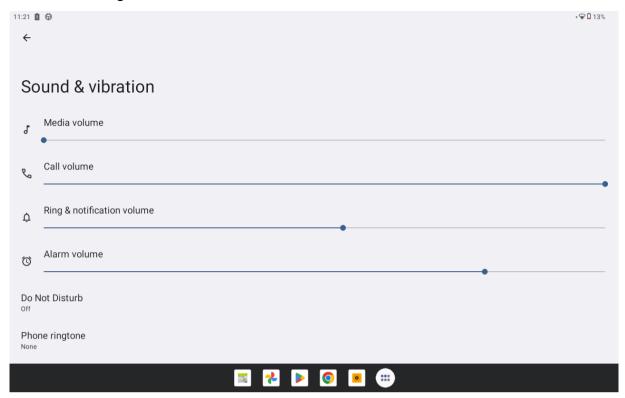
Use the sound settings to configure how and at what volume the tablet rings, vibrates or alerts user in other ways when user receive a call, receive a notification or an alarm sound.

Open **MENU** and then tap **Settings** , and then tap **Sound** .



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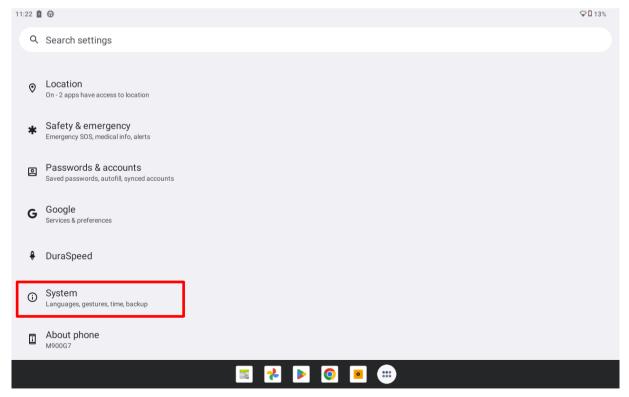
In the **Sound** user can select Media volume, Call volume, ring volume, alarm volume and other sound settings.



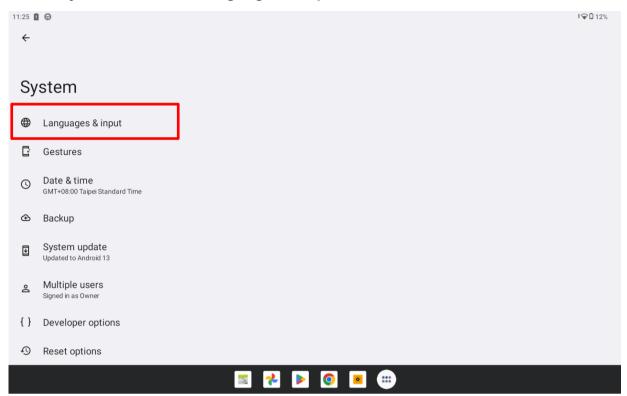
4.8 Language and Keyboard Settings

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

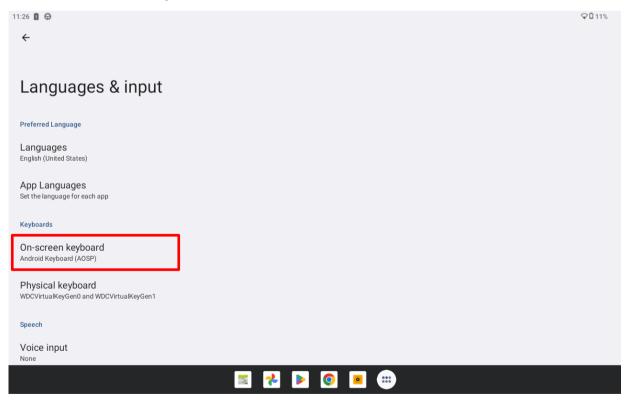
1. Open **MENU** and then tap **Settings**, and then tap **System**

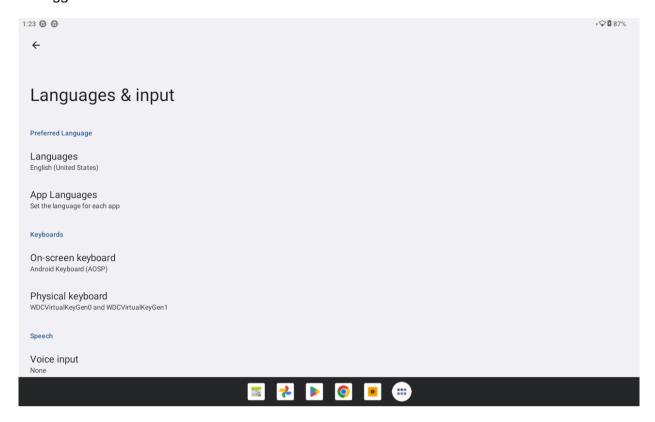


2. In the System tab, select Languages & input.



3. Select On-screen keyboard.





4.8.1 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.

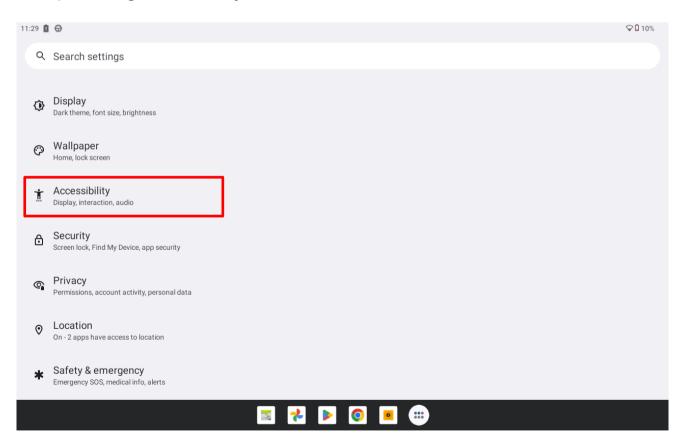
4.9 Changing Touchscreen Modes

The touch screen of the M900MGN Series Rugged Tablet supports hand/water resistant, palm rejection (stylus) and glove modes. You can change the touch mode in Accessibility settings.

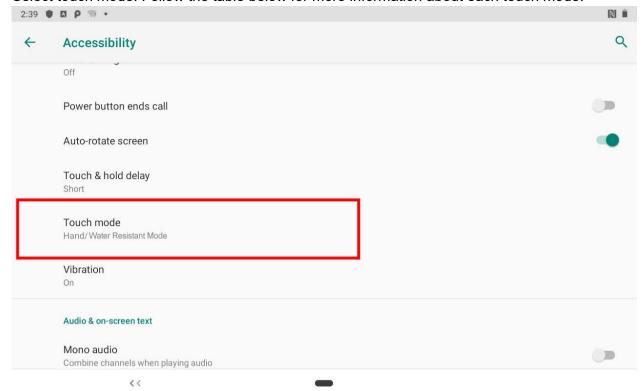
Mode	Description
Hand/Water Resistant (Default)	In Hand/ Water Resistant mode the touchscreen rejects false inputs from liquid drops. When the liquid is removed, the touchscreen accepts touch inputs from bare fingertips. This is a default mode setting. Supports input by: Rubber tip passive stylus Bare fingertips
Stylus Mode	In Stylus mode, the touchscreen supports inputs from the fine-tip passive capacitive stylus (shipped with tablet). Support input by: • Fine-tip passive stylus with palm rejection • Rubber tip passive stylus • Bare fingertips
Glove Mode	In <i>Glove</i> mode, the touchscreen supports inputs while the user is operating the touchscreen with gloves on. Supports input by: • Glove • Rubber tip passive stylus • Bare fingertips

To change touch mode:

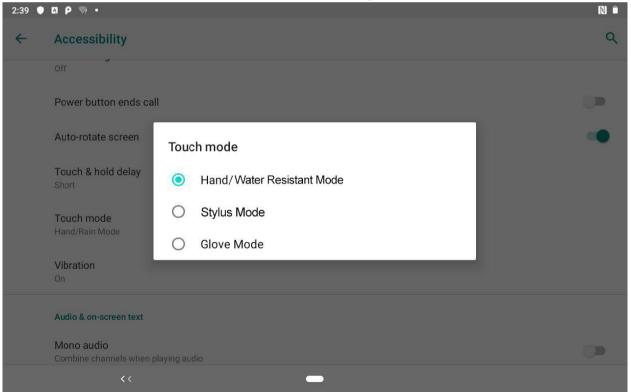
1. Open Settings>Accessibility > Touch Mode.



2. Select touch mode. Follow the table below for more information about each touch mode.



3. Select the touch mode and leave the Touch Mode settings.



4.10 About Phone

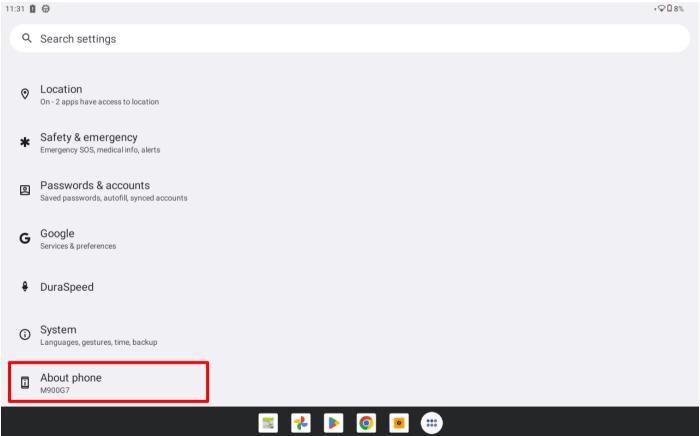
About Tablet includes information about user's device.

- 1. System Update provides information regarding the local or online update of your devices.
- 2. Status opens the status screen with a list of information about battery, network, signal strength and other details.
- 3. Legal Information lists details about the model number, Android Version, Baseband version etc. this information is useful if user need to work with support team.
- 4. **Model number** displays the model name of the current device.
- 5. Android version displays the current Android operating system version the device running

To access the information about the phone:

1. Tap MENU>Settings > About Phone.



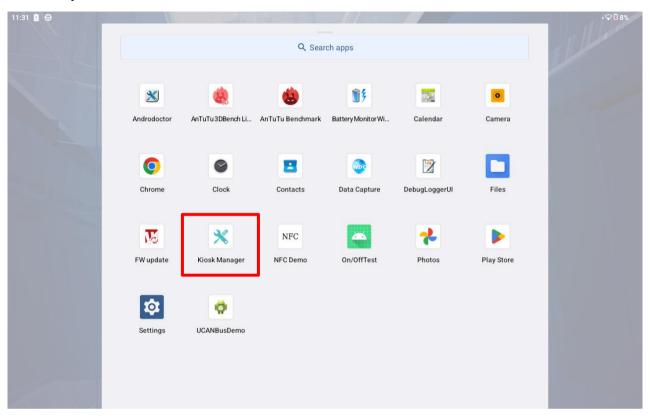


Chapter 5: Winmate Kiosk Manager

Every M900MGN Series Rugged Tablet 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.

5.1 How to Lock Applications

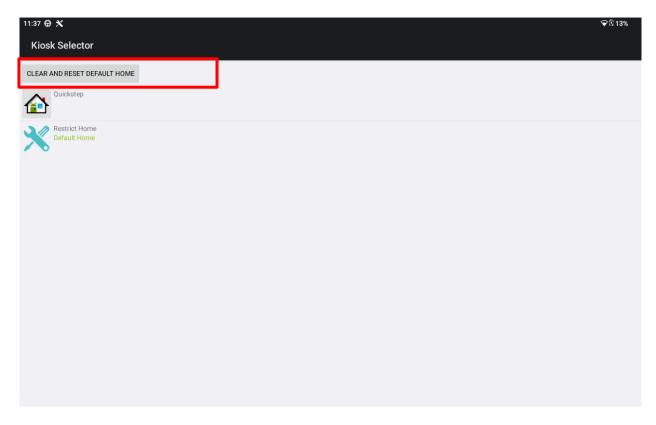
In the main APPS window, select the **Kiosk Manager**. Select **Kiosk Manager** to start your settings. Go to Password Manager and set your own password for this APP. The default password is "password".



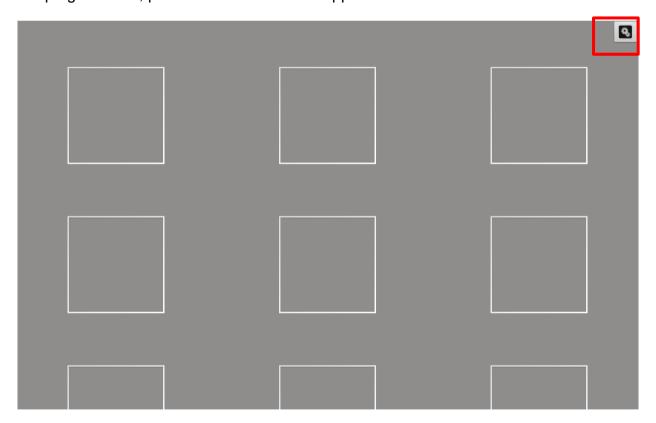
To reset the applications on the Home screen, follow below steps:



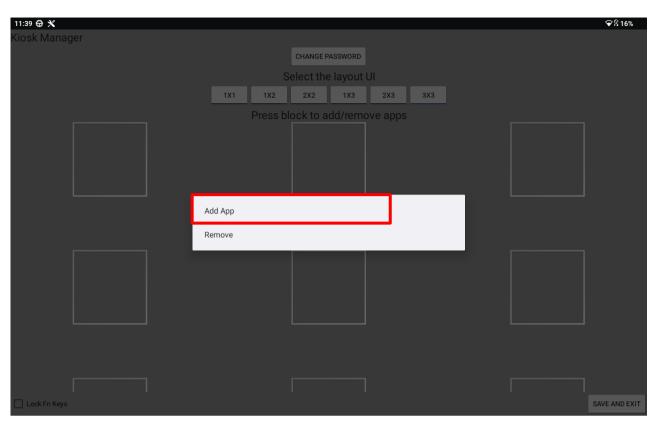
Select Clear and Reset Default Home

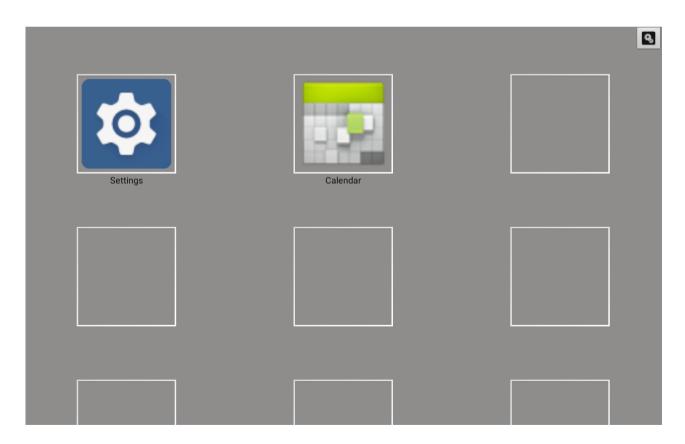


On the top right corner, press on the icon to add applications.

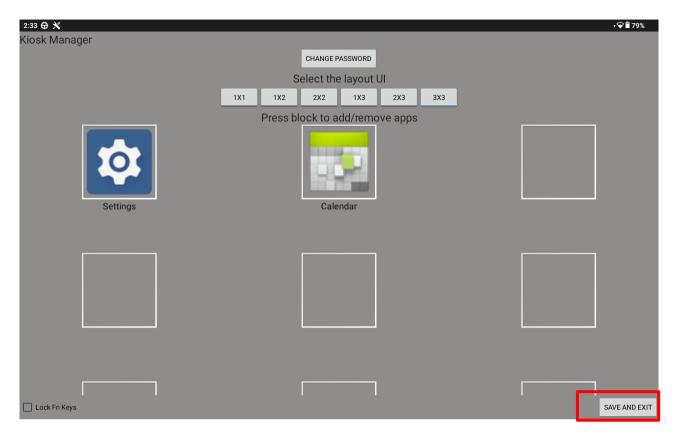


Select **Add App** to start adding applications to the Home screen.

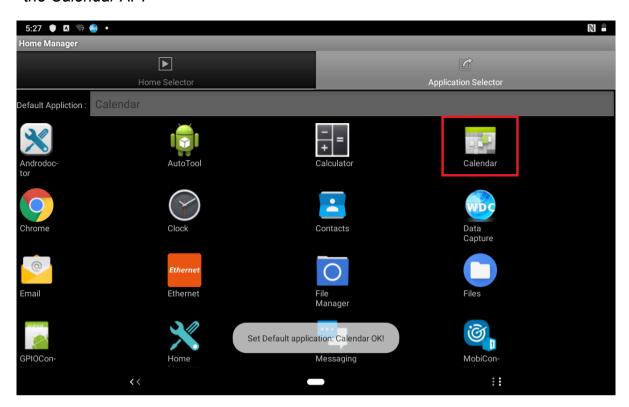




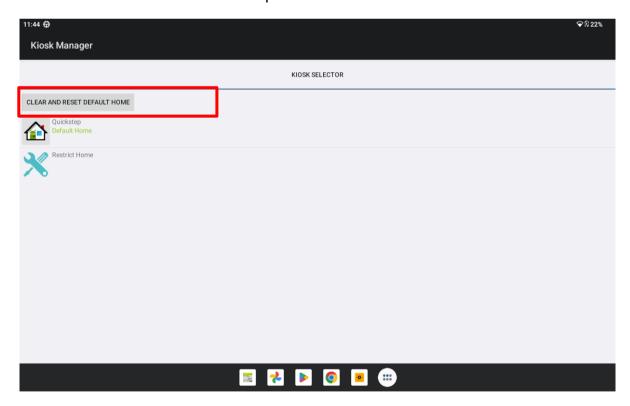
When finished selecting applications on the Home screen, go to the bottom right corner and press Save and Exit.



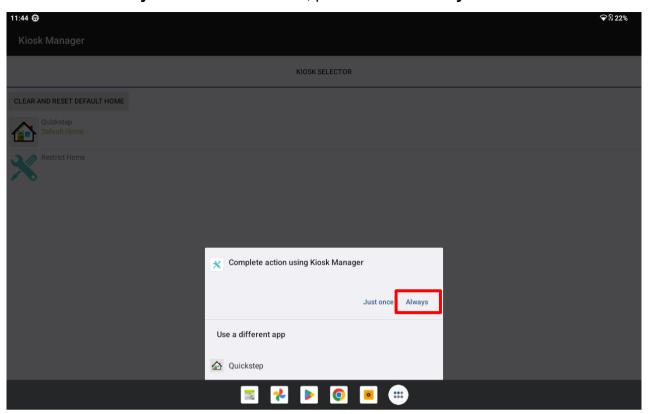
• Go to "Application Selector" and choose an Application to be locked. Example: Select the Calendar AP.



• Go back to "Kiosk Selector" and press "Clear and Reset Default Home".

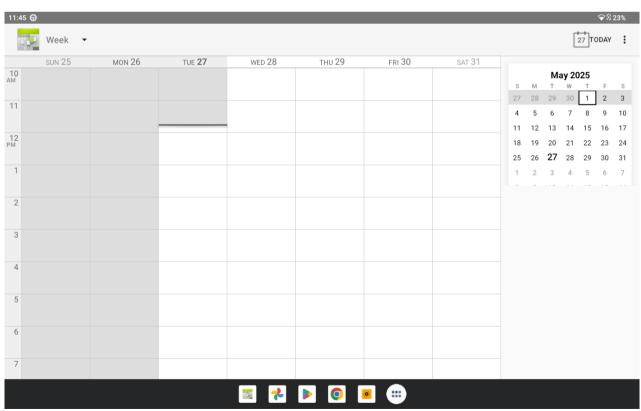


• Select "Restrict Home", and then restart the tablet. The system will ask to select "Just once" or "Always" to use this launcher, please select "Always".



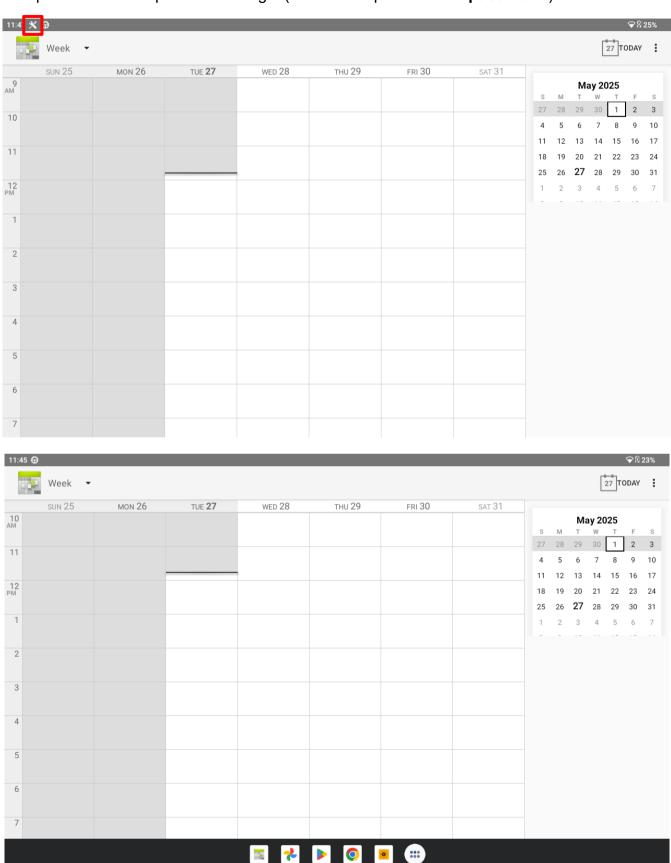
The system will automatically start the application which you selected and lock it.

Any time you press home key or back key, the system will go back to the same application which you have selected.

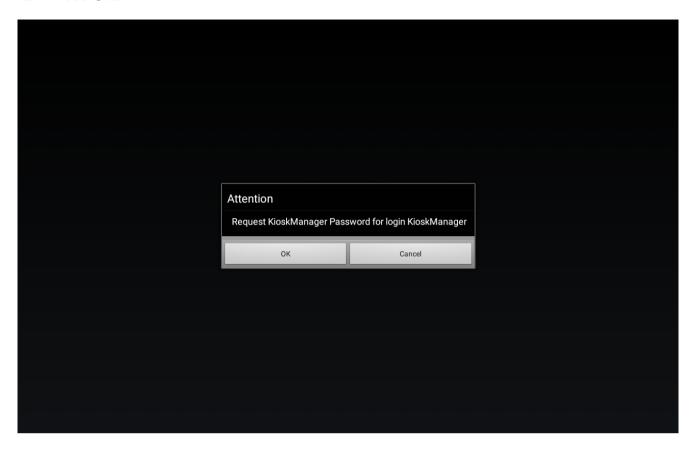


5.2 How to Unlock Applications

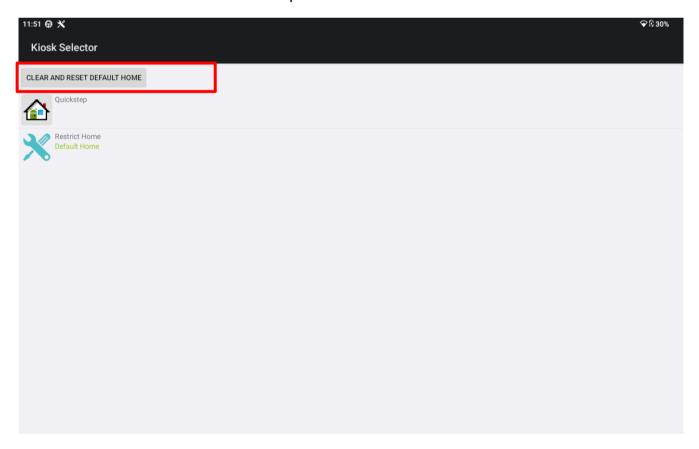
1. Slide down the top bar and press "Kiosk Manager" icon then you can find the menu and please enter the password to login (The default password is "password").



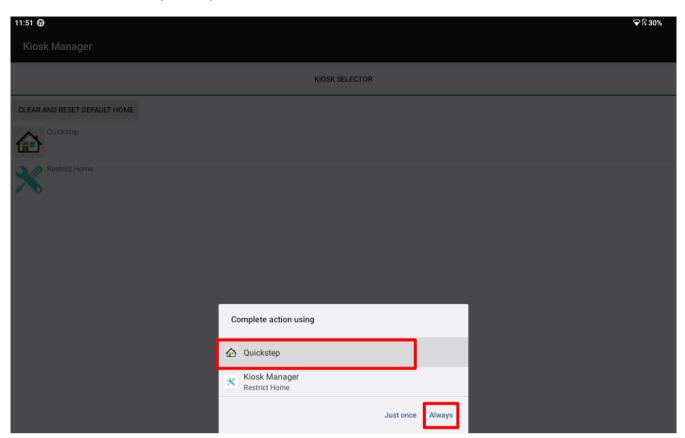
2. Press OK.



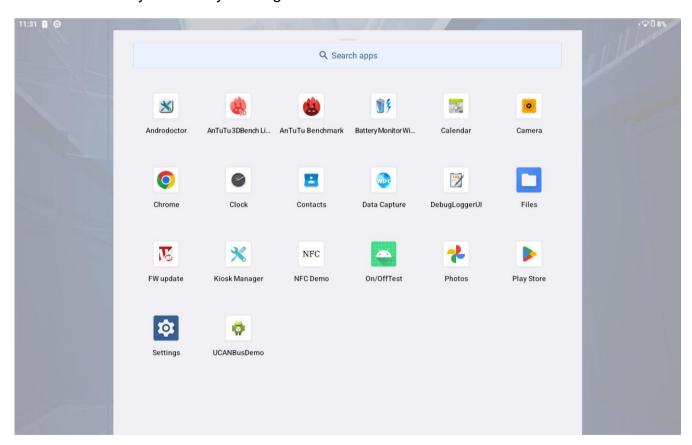
3. Go back to "Kiosk Selector" and press "Clear and Reset Default Home".



4. Select Quickstep, and press ALWAYS.

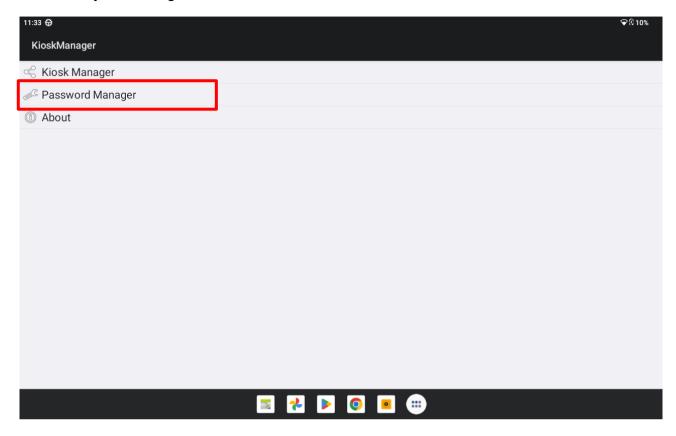


5. Restart the system and you will go back to the normal Launcher.

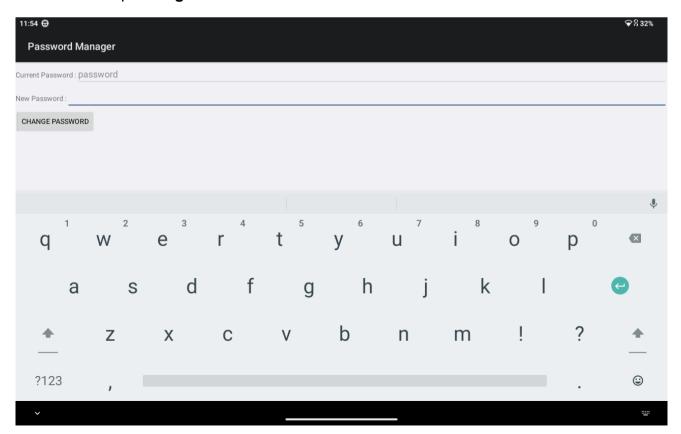


5.3 How to Change Password

1. 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.



Chapter 6: Networks and Wireless Devices

This chapter explains how to connect the rugged tablet to network and peripheral devices.

6.1 Connecting to Mobile Networks

When users install a SIM card from service provider to the M900MGN, the device is configured to use the provider's networks for voice calls and for transmitting data. Different locations may have different mobile networks available; user may need to configure the M900MGN to use certain networks.



Note: To obtain faster networks configure the device to 4G. To extend the life of battery user can use 2G network.

6.1.1 Checking the Network (GPRS/3G/4G) Connection

- Open MENU and then tap Settings .
- Tap More in the Wireless & networks, and then tap Mobile networks.
- Tap **3G/4G Service** to check the network connection.



Important: Do not change the parameters of the access point to prevent inability to access network sources.

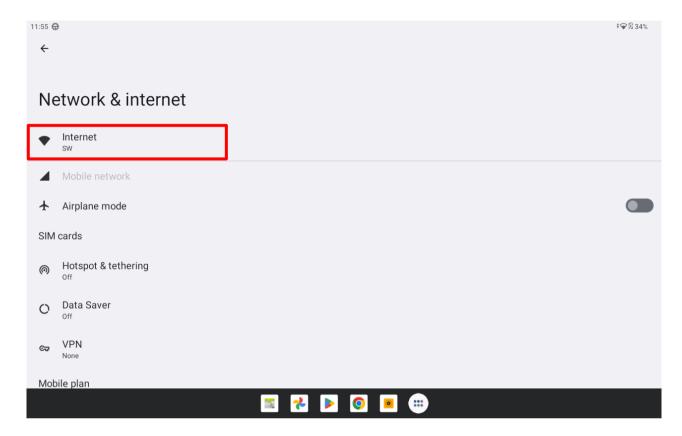
6.1.2 Turning on Data Service

- Open MENU and then tap Settings .
- 2. Tap More.in the Wireless & networks, and then tap Cellular networks.
- 3. Tap Data connection.
- 4. Select the desired network operator to enable the data connection.

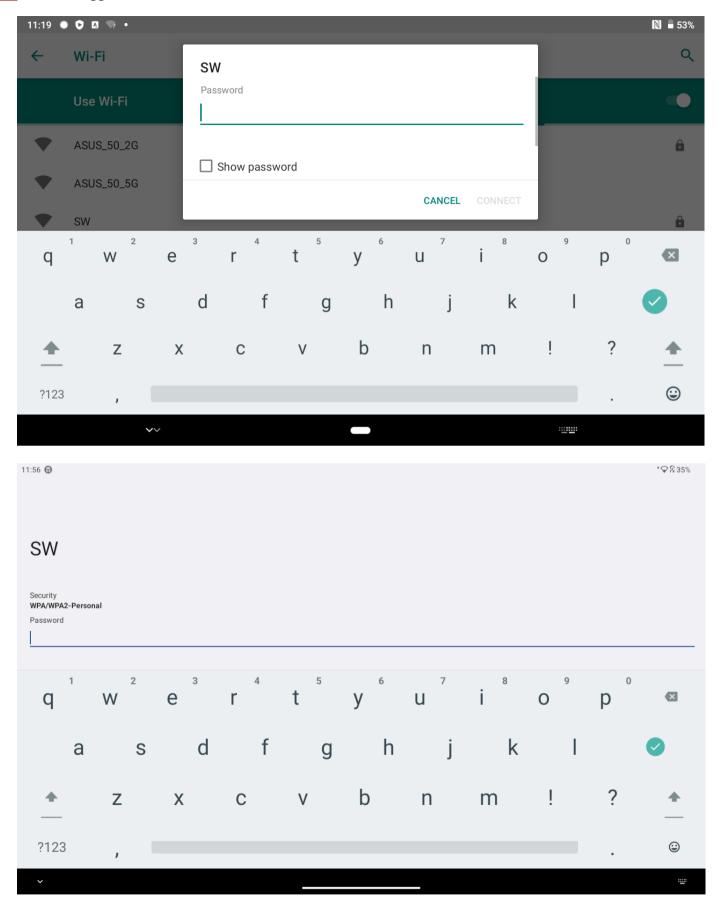
6.2 Connecting to Wi-Fi Networks

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

- 1. Tap **MENU** and then tap **Settings**.
- 2. Tap Wireless & networks and then toggle the on/off switch on the top-right hand side to turn on the Wi-Fi.



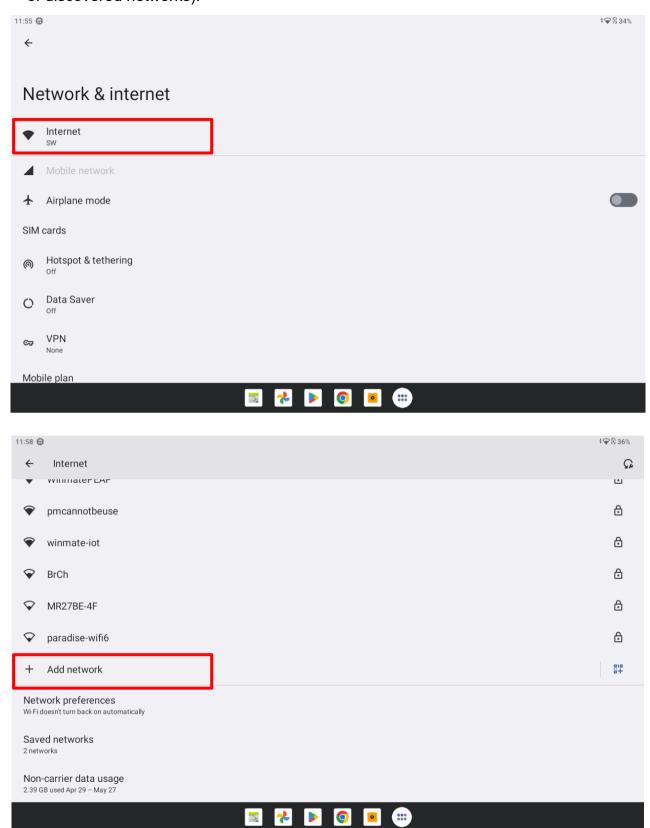
- 3. Tap Wi-Fi. The device scans for available Wi-Fi networks and displays the list of it. Secured networks are indicated with a lock icon. If the tablet finds a network that you have connected previously, it connects to it automatically.
- 4. Tap a network to connect to it:
- 5. If the network is open, you are prompted to confirm that you want to connect it by tapping Connect.
- 6. If the network is secured, users are prompted to enter a password or other credentials.



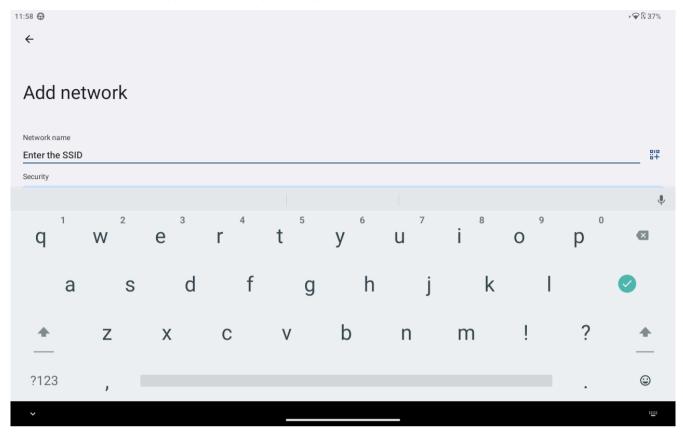
7. To check the details about the speed, security, address and related settings, tap its name in the Wi-Fi settings screen.

6.2.2 Adding Wi-Fi Network

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



• 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.

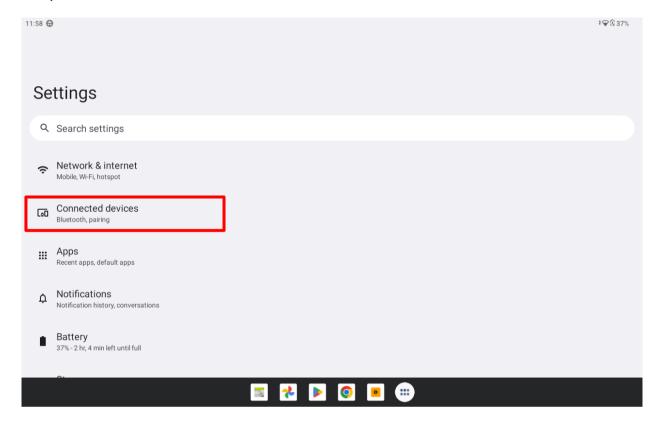


- Enter any required security credentials.
- Tap Save.

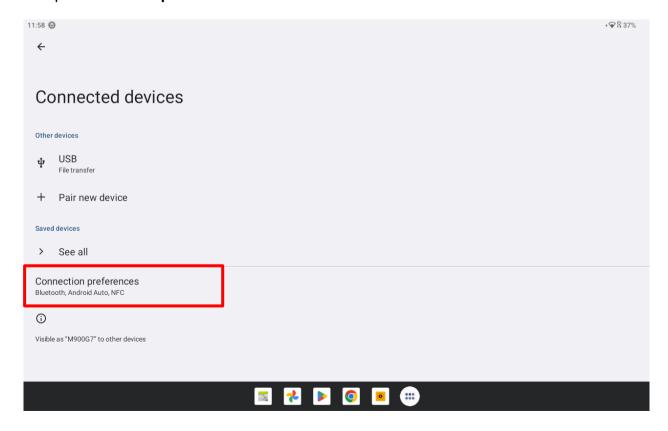
6.3 Connecting to BT Devices

6.3.1 Turning BT On or Off

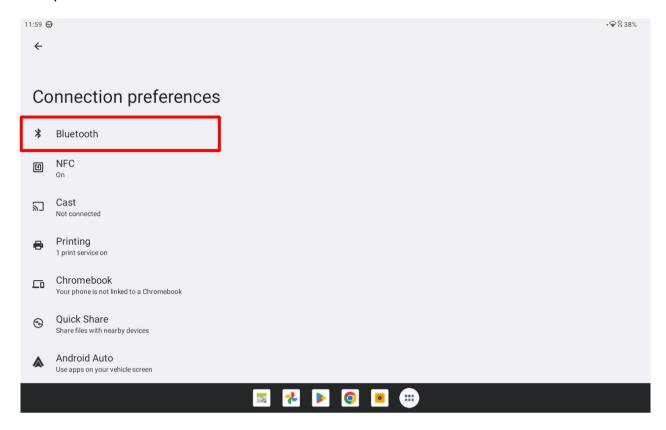
- 1. Tap **MENU** and then tap **Settings**.
- 2. Tap Connected Devices .



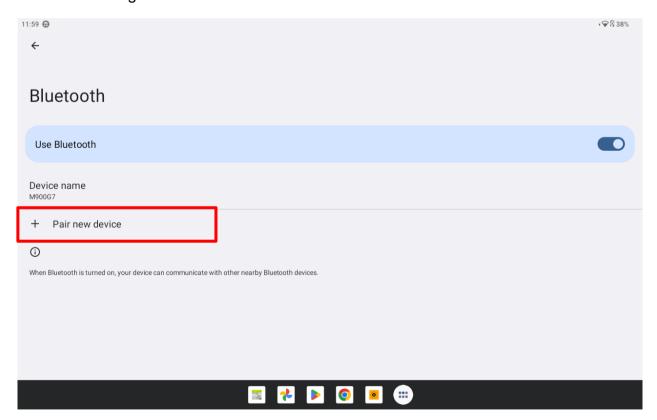
3. Tap Connection preferences.



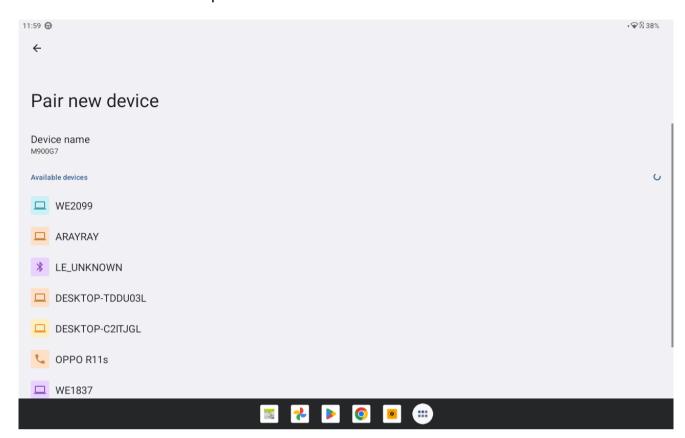
4. Tap Bluetooth *.



5. Toggle the on/off switch on the top-right hand side to turn on the Bluetooth, and then tap Pair new device. It will automatically scan and displays the IDs of all available BT devices in range.



6. Select the device to be paired.



6.3.2 Disconnecting BT Device

- 1. Tap the device in the BT settings screen.
- 2. Tap **OK** to confirm that you want to disconnect.

6.4 Connecting to Computer via USB

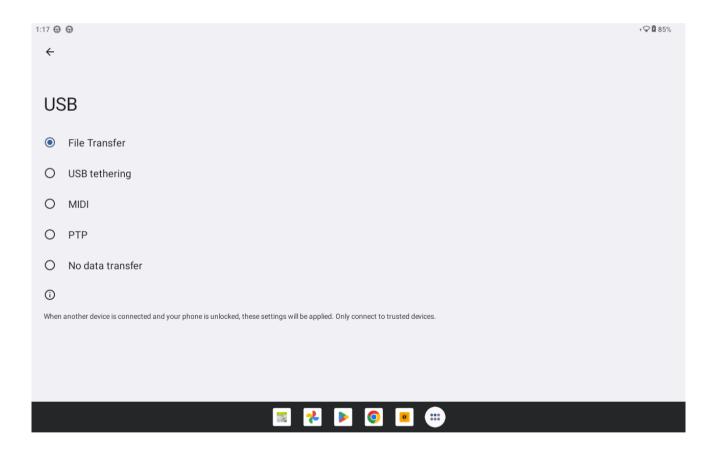
User can connect their tablet to a computer with USB cable to transfer files between tablet and computer.



Important: When connecting your tablet 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 M900MGN Series Tablet PC cannot be charged via USB.

6.4.1 USB Computer Connection

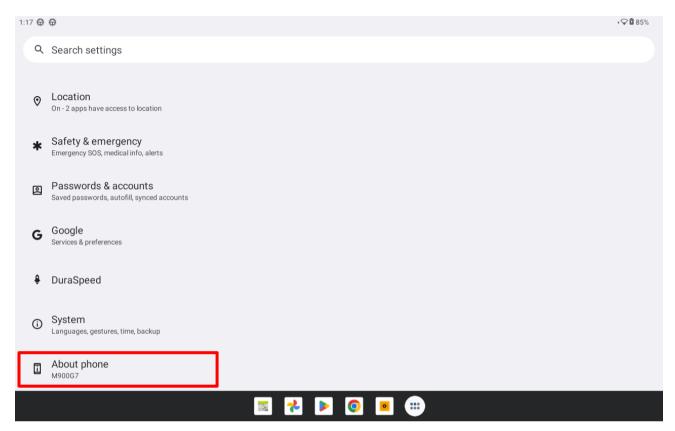
- 1. Connect the tablet to the computer via USB connector.
- 2. In the **USB Preferences** choose the type of USB connection.
 - 1. File Transfer let user transfers files between computer and tablet.
 - 2. PTP let users transfer photos or media files if MTP is not supported.
 - 3. MIDI let users use device as MIDI.
 - 4. No data transfer— disable data transfer.



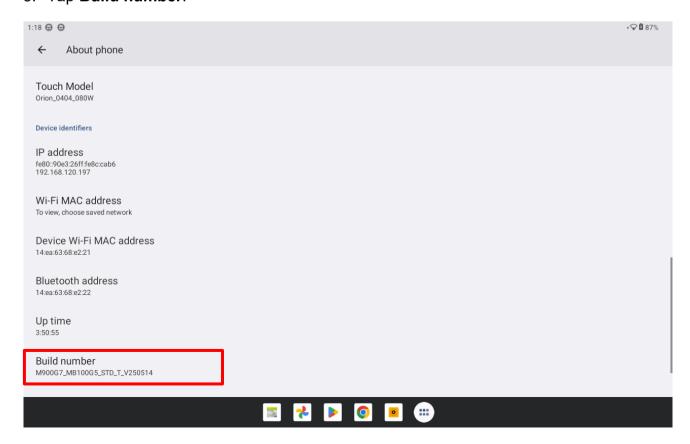
6.4.2 USB Debugging Settings

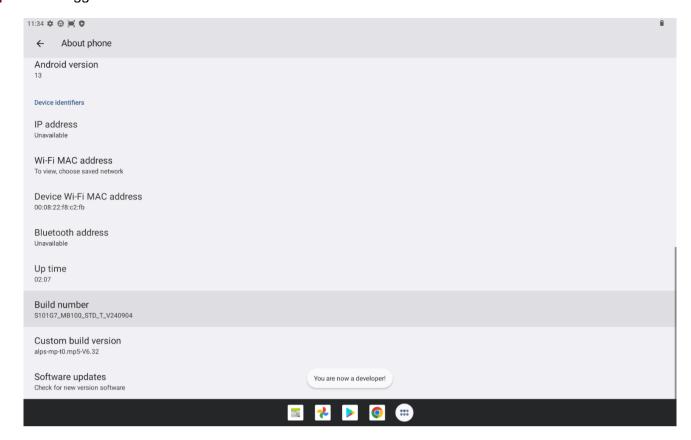
To permit debugging tools on a computer to communicate with User's tablet via USB Connection.

- 1. Connect tablet to the computer via USB cable.
- 2. Tap **MENU** and then tap **Settings** , tap **About phone**.

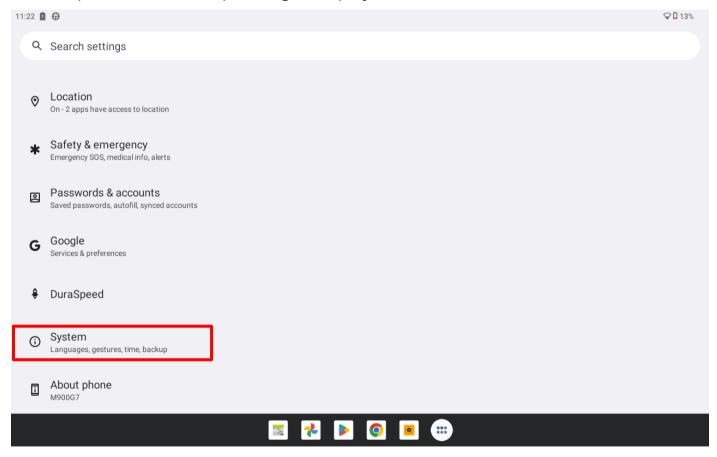


3. Tap Build number.

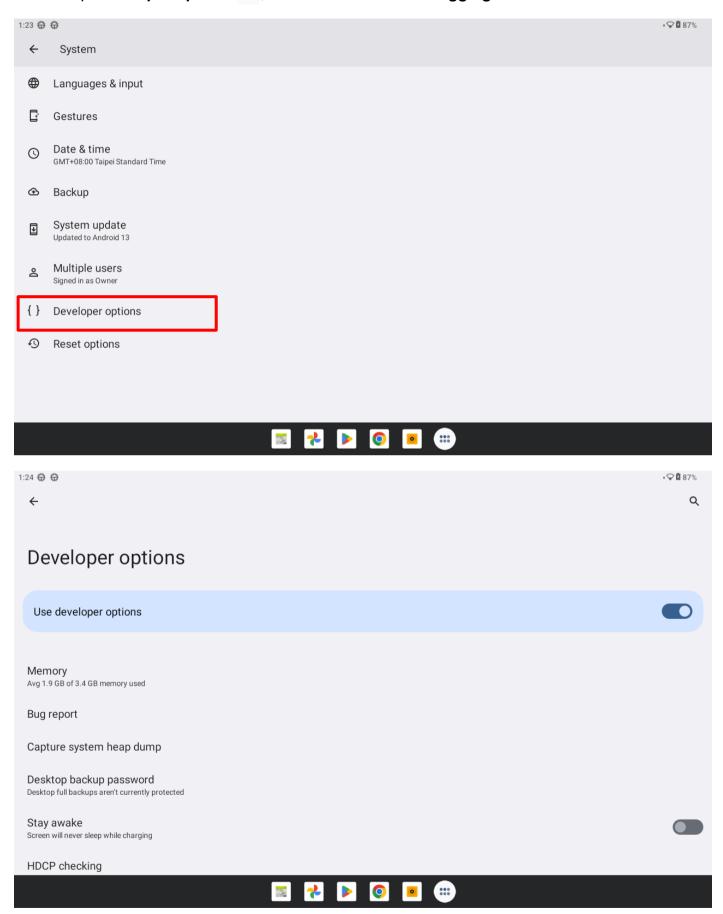




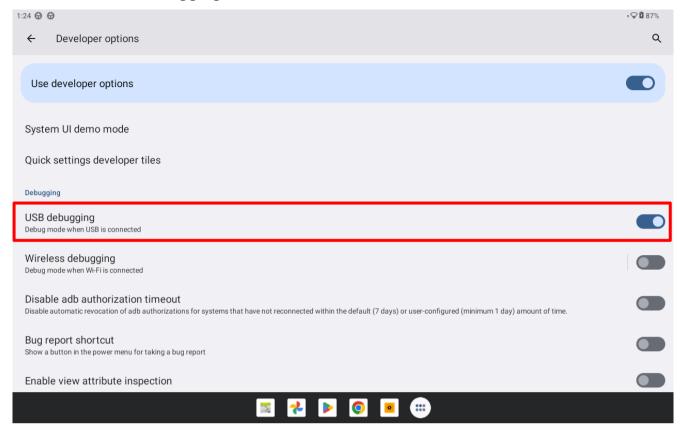
4. Tap **MENU** and then tap **Settings**♥, tap **System**^⑩.



5. Tap **Developer options** {}}, scroll down to **USB debugging**.



6. Turn on USB debugging.





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.

Chapter 7: Using Camera

This chapter explains how to use camera to capture photos and videos.

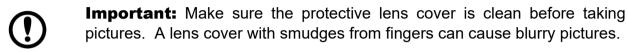
7.1 Capturing Photos or Video

The Winmate® M900MGN is equipped with a 13 MP camera on the rear side and an 8 MP Camera on the front side, which user can use to capture photos or video.

7.1.1 Opening Camera

1. Tap the launcher and then tap Camera Camera opens in Portrait mode, ready to take a picture or shoot a video.

7.1.2 Taking Pictures



- a. Adjust the exposure, flash, and other necessary settings. Or leave it automatic.
- b. Tap the On Screen Shutter icon
- c. The camera brings the image into focus, when the image is in focus, the focus indicators in each corner will turn green and ready to capture.
- d. Tap to change camera settings.



7.1.3 Shooting Videos

- to start recording video. Tap the
- 1. The countdown time remaining to shoot is located on the upper left; when the time left is less than a minute, the countdown turns red.
- 2. Point the lens to record the scene where you want to start.

icon again to stop shooting.



The time remaining to shoot counts down at the left; when less than a minute is left, the countdown turns red.

7.2 The Gallery

- 1. Swipe up to the launcher and then tap Snapdragon Photos
- 2. Tap a folder to view the pictures or video inside in full screen mode.
- 3. Flick the pictures left or right to view the previous or next picture.

Chapter 8: Using Barcode Reader

This chapter explains how to use Barcode Reader and Android Winmate® Data Collection application.

8.1 Using Barcode Reader

8.1.1 Barcode Reader Location

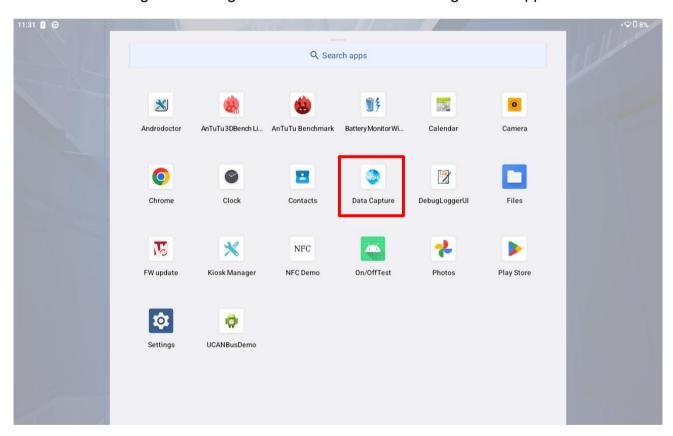
1D/ 2D Barcode Reader is an optional feature for the Winmate® M900MGN and may not be present in your device. Barcode Reader is located on the top side of the tablet.

8.1.2 Android Winmate® Data Capture

The M900MGN with Barcode Reader comes with pre-installed software made by Winmate® -Data Capture that allows users to turn on the readers and set up the button to trigger the scan function.

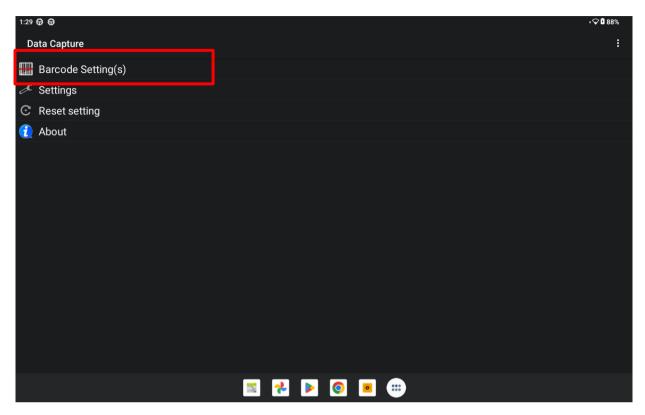
8.1.3 Where to Find WDC

- 1. Open the main **MENU**.
- 2. Open Data Capture (WDC) application
- 3. User can change the settings of the Barcode Reader through WDC application.

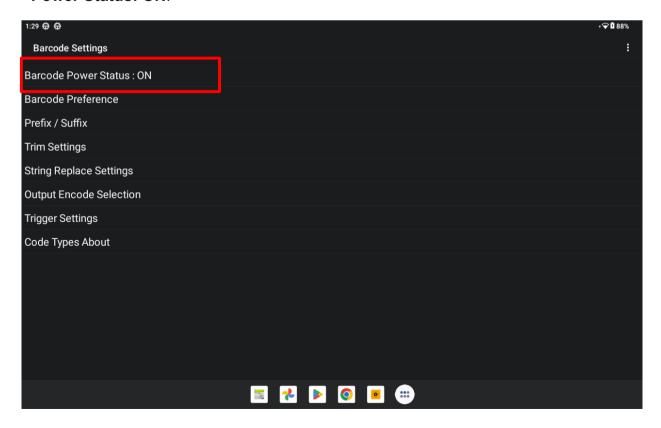


8.1.4 How to Turn On/Off the Power of Barcode Reader

- 1. Open **Data Capture (WDC)** application.
- 2. Tap Barcode Setting .

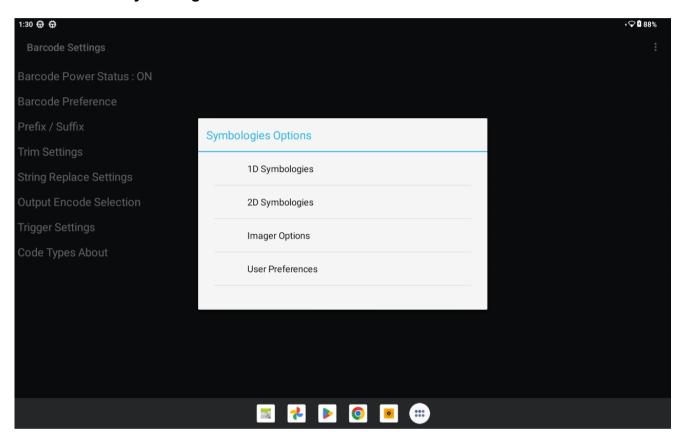


3. Once the user entered the WDC application, the device will automatically turn on the Barcode Reader. And the user can turn off the Barcode Reader by tapping Barcode Power Status: ON.



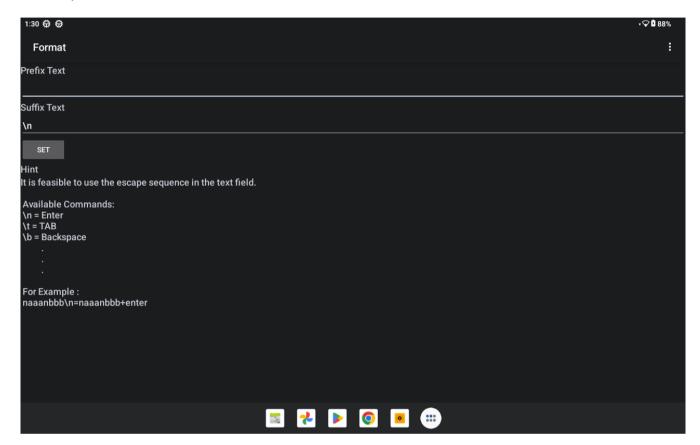
8.1.5 How to Change the Symbologies of Barcode

- Open Data Capture (WDC) application.
- > Tap Barcode Settings .
- > Tap Barcode Preference.
- Choose from symbologies options:
- 1. Code Type Symbologies
- 2. Scanning Settings
- 3. Disable all symbologies



8.1.6 How to Add Command to the Barcode Output

- 1. Open **Data Capture (WDC)** application.
- 2. Tap Prefix / Suffix.
- 3. Enter special characters at the beginning (prefix) or end (suffix) of the scanned barcodes.
- 4. Tap **Set** set to add into the data.



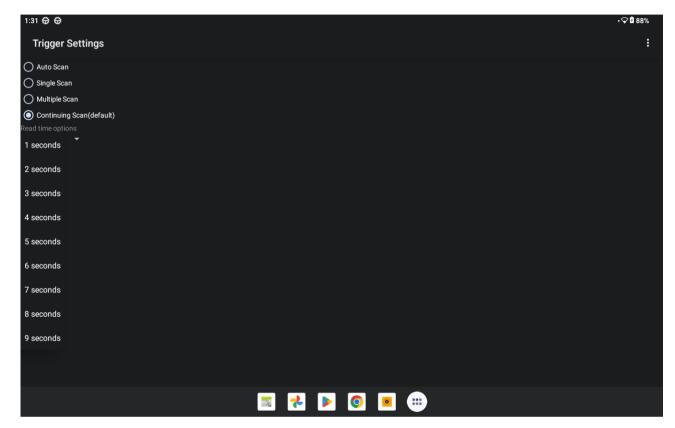
The output will show the command that you entered in the prefix or the suffix.

For example, if user enters "\n" in the prefix text, the output of the barcode reader will appear on the next line of the page. And if the user enters "\n" in the suffix, the output of the barcode reader will show the barcode and change to the start of the next line for the user. Same with the command "\t" and "\b".

8.1.7 How to Change the Scan Type of the Barcode Reader

- 1. Open **Data Capture (WDC)** application.
- 2. Open Barcode Settings III, tap Trigger Settings.
- 3. Select the **Scan Type** or select read time of the Barcode Reader.

To start scanning the barcode user has to leave the WDC application.

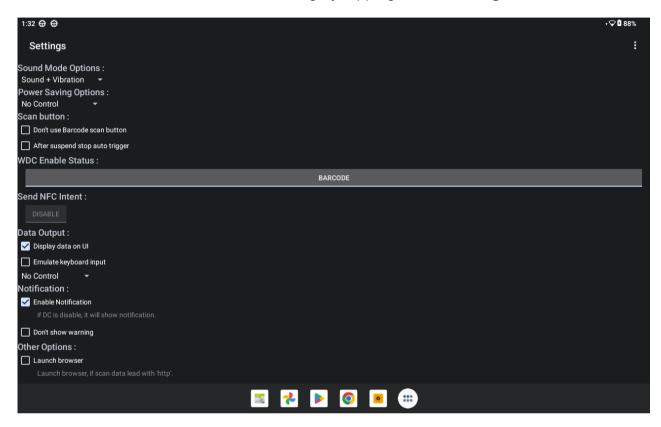


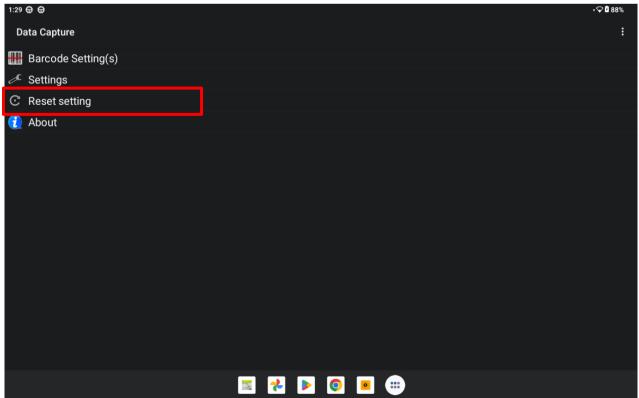
- 1. Auto Scan Barcode Reader starts auto-scanning once the user leaves the WDC application.
- 2. **Multiple Scan** After pressing the trigger button Barcode Reader starts continuously scanning and reading multiple codes within the time duration specified in Read time option.
- 3. Auto Detect Scan Barcode Reader keeps auto-scanning while the device is being moved.
- 4. Continuing Scan or Single Scan (Default) After pressing the trigger button Barcode Reader can only read a single code within time duration selected in Read time option.

Note: The options showed will be different depending on the version of Barcode Reader or Android.

8.1.8 How to Change WDC Settings or Reset to Default

- Open **Data Capture (WDC)** application.
- Tap **Settings**.
- Users can select the options to change the setting of the application.
- Users can reset to the default setting by tapping Reset setting.

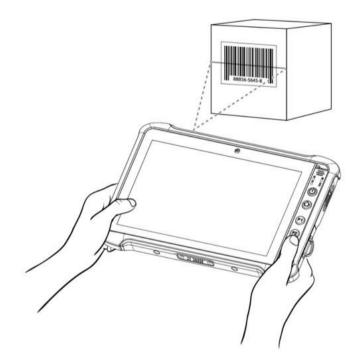




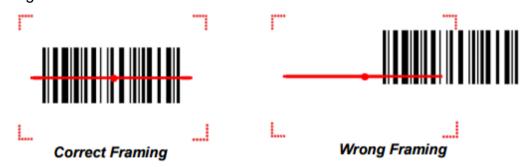
8.1.9 Scanning Barcodes

How to scan a barcode:

- 1. Press the function button to trigger the barcode.
- 2. Aim the barcode.



3. Ensure the entire barcode is within the rectangular area formed by the brackets in the laser framing.



4. Release the trigger.

8.1.10 Scanning Tips and Considerations

Distance

Scanning device will decode perfectly over a certain working range, there are minimum and maximum distance from the barcode. To specify the appropriate working range per barcode type is through a table as follows.

Symbology	Density	Min Distance	Max Distance
Code 39	0.100 mm	9.5 cm	11.5 cm
	0.125 mm	8.0 cm	14.5 cm
	0.500 mm	6.5 cm	50 cm
	1.000 mm	9.5 cm	75 cm
EAN / UPS 100%	0.33 mm	6 cm	34 cm
DataMatrix	0.18 mm	7.5 cm	16.5 cm
	0.25 mm	6.0 cm	23.0 cm
	0.38 mm	5.5 cm	34.5 cm
PDF417	0.25 mm	5.5 cm	26 cm
	0.38 mm	6.5 cm	37 cm

Angle

Scanning angle is important for promoting quick decodes.

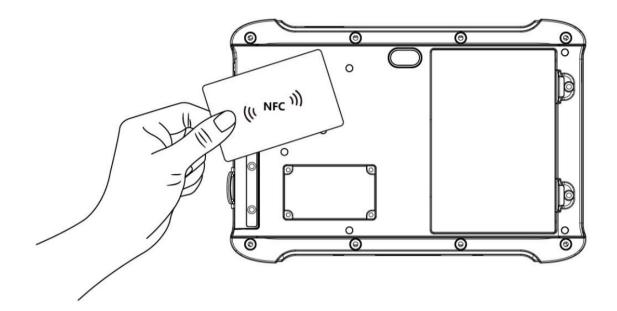
Scanning Angle	Horizontal 34.4°	34.4°
	Vertical	22.2°
Framing Angle	Horizontal	30°
	Vertical	20°

Chapter 9: Using NFC Reader

This chapter explains how to use NFC Reader on a M900MGN Series Rugged Tablet.

9.1 Using NFC Reader

The M900MGN Series Rugged Tablet has an optional NFC Reader. The NFC reader is located on the back side of the device. Place the NFC card to scan.

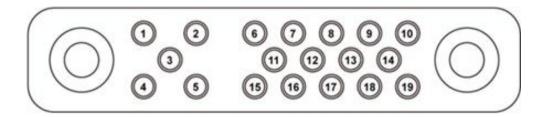


Chapter 10: Frequently Used Settings

This chapter explains the frequently used settings such as changing resolution and scaling, using recovery wizard, and docking connector. It also contains basic troubleshooting guide.

10.1 Docking Connector Pin Definition

The M900MGN Series Tablet Computer supports one 19-pin docking connector at the bottom side. The pin definition is listed as the following table.



19-Pin Docking Connector			
Pin No.	Description	Pin No.	Description
1	RF_GND	11	NC
2	DOCK_DET#	12	NC
3	GPS ANT	13	GND
4	RF_GND	14	Power
5	RF_GND	15	USB+
6	NC	16	USB-
7	NC	17	GND
8	DETECT+	18	GND
9	Power	19	DETECT-
10	Power		



Caution Do not open when the expansion port is not used.

Attention Ne pas ouvrir lorsque le port d'extension n'est pas utilize.

10.2 Basic Troubleshooting

Problem	Solution
The removable battery is not charging.	Make sure the AC adapter is properly connected, and that the removable battery is properly inserted.
Nothing appears on the screen.	 The tablet computer may be in sleep mode. Press the power button to wake up the display. The brightness level may be too low. Increase brightness.
The screen suddenly turns blank and the power indicator goes off.	 Make sure the AC adapter is properly connected. If running on battery power, the battery may be depleted, charge the battery. Make sure that LED Indicator shows red.
Wireless LAN signal quality is poor.	 The tablet computer may be out of range. Move the tablet computer closer to the access point or another wireless LAN device associated with it. Check if your surroundings have interferences, such as microwave ovens, cordless phones. Move the tablet computer away from objects causing interference.
I cannot connect to another wireless LAN device.	 Make sure that wireless LAN feature is powered on. Make sure that the SSID setting is the same for every wireless LAN device in the network. Restart the tablet computer. Make sure the IP address or subnet mask setting is correct.
I cannot connect to another device with Bluetooth.	 13. Make sure that both devices have Bluetooth powered on (For the Tablet Computer, check Settings to check if Bluetooth is powered on). 14. Make sure that the distance between the two devices is within 10 meters and there are no walls or large obstructions between the devices. 15. Make sure the both devices are powered on and configured to be discoverable. 16. Make sure that both devices are compatible.
The GPS application cannot find my location.	 17. Make sure that GPS is turned on in Settings. 18. Make sure that GPS receiver and the location sensor are enabled in Control Panel. 19. The tablet computer may be out of coverage area. Move your tablet computer outdoors or closer to a window. 20. Check if your surroundings have interferences, such as microwave ovens, cordless phones. Move the tablet computer away from objects causing interference.

Problem	Solution
No sound is produced.	21. Adjust volume of the tablet computer by pressing on the volume rocker.22. If using an external audio device, make sure that the cable is properly connected.
I cannot project the tablet computer display to another monitor.	23. Make sure the VGA driver is installed.24. Make sure the output setting selected is correct.
Barcode scanner does not emit laser beam and does not seem to work.	 25. Make sure the Barcode scanner device is detected, please open WDC application and check Data Capture "About". 26. If the device is not detected in WDC application under Data Capture "About", please press Reset Setting in Data Capture.
Barcode Scanner emits laser beam but does not read barcode presented to it.	27. Adjust the distance between barcode scanner of the device and the barcode being scanned.28. Make sure the barcode code type is enabled in the tablet. To enable/disable a specific barcode code type, go through the "Barcode Scanner Configuration" section.
Battery leaking or swollen	29. The lithium battery used in this tablet may swell after being charged/ discharged many times, but there is no problem regarding safety.30. Continued use in such a state may result in the battery getting jammed, so please stop using the battery, and purchase a new one.

Chapter 11: Accessories

This chapter lists available accessories and describes how to install the accessories to M900MGN Series Tablet Computer.

11.1 Accessories Introduction

The accessories of M900MGN Series Tablet Computer provide a variety of product support capabilities. Table below lists the accessories available.

Accessory	Part Number	Description		
Standard				
Adapter and Power Cord	922D065W19V6	Provides power 100-240VAC to 19VDC@3.42A		
Standard Battery Pack	98KA00000002	7.6V, typ. 4200 mAh Li Polymer Battery (2S2P)		
Capacitive Stylus	9B0000000415	Better precision and data input with fine-tip point		
Hand strap	98KA0000003	Use to make holding and using a tablet more secure.		
Optional	Optional			
Desk Dock*	98DA0000001	Use to mount tablet on the desk.		
Vehicle Cradle VC900	98DA00000002	Use to mount a tablet on the vehicle.		
Battery Charger	98JA0000001	Charges the battery.		
Vehicle Docking VD-M900P-E	98DT00A0001U	Use to mount a tablet on the vehicle, provides I/O extension and charges the battery.		
Vehicle Docking VD-M900P	98DT00A0001O	Use to mount a tablet on the vehicle, provides I/O extension and charges the battery.		

11.2 Installing Vehicle Cradle

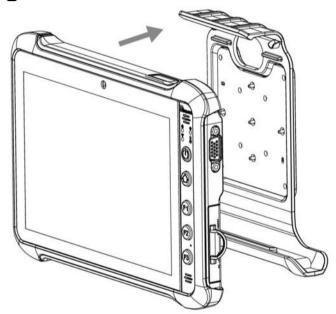
Use a vehicle cradle VC900 to mount a tablet on the vehicle. Follow the instructions below to install the M900MGN Series Tablet Computer on the vehicle cradle.

Highlights:

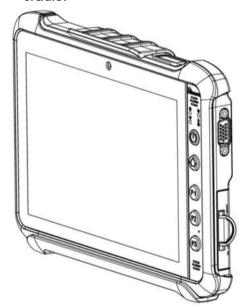
- Keeps the tablet securely fastened on a moving vehicle
- Anti-theft design with key lockable cradle
- Wide power voltage input (9~36V DC)
- VESA standard for various mounting fixtures

Installation Instructions:

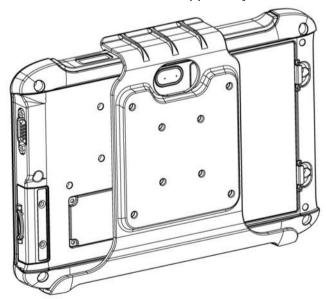
Place a tablet on the vehicle cradle.



2 Make sure the tablet is firmly inserted into the cradle.



3 Use RAM mount to install the vehicle mount on the windshield or other flat car surface. Notice that RAM mount kit is not supplied by Winmate.



Reverse the procedure to detach a tablet from the vehicle cradle.

Appendix

This chapter provides additional information about the M900MGN Series Tablet Computer.

Appendix A: Product Specifications

		Model Name
		M900MGN
	Size	8-inch
	Resolution	1280 x 800
	Brightness	800 nits
	Contrast Ratio	1500:1
Display Specification	Viewing Angle	80/80/80/80
	Touch	10-point multi-touch projected capacitive
	Technology	Anti-glare technology
		•Automatic screen rotation
	Sensor	Light Sensor / G-Sensor / Gyroscope / E-Compass
	Processor	ARM Genio 510 2 x A78 2.0GHz + 4 x A55 2.0GHz
System Specification	System Memory	4 GB
System Specification	Storage	64 GB
	OS	Android 13.0
	Docking Connector	1 x 19-pin docking connector
	USB	1 x USB3.0 (Type-A), 1 x USB2.0 (Type-C)
Interface	Audio	1 x Audio Combo connector (Mic in or Line Out)
	LAN MicroSD Slot	1 x LAN 1 x Micro SD Slot
	Power Input	1 x Power Jack
	Microphone	Built-in Digital Mic
Audio	•	
	Speaker	1 x 1 Watt speaker
Camera	Front Camera	8 MP Webcam
Camera	Rear Camera	13 MP Rear Camera with Autofocus and LED Light
Data Capture	Barcode	1D/ 2D Barcode Scanner (Optional)
•	NFC	NFC Reader (Optional)
Security	Security Function	Kensington Lock On-screen QWERTY Keyboard
Keyboard and Input	Buttons	Buttons: 1 x Power, 1 x Home, 3 x Function key
nto y boar a ana mpat	LED Indicators	Power, Charging Indicator
	WLAN	802.11 a/b/n/ac/ax
Wireless	WWAN	4G/ LTE (Optional)
Communications	BT	BT
	GNSS	GPS, GLONASS
	Power Input	19V DC, 3.42A
	Battery	7.6V, typ. 4200 mAh Li-ion Battery (2S2P)
Power Management	Battery Operating	10 hours
	Time	
	AC Adapter	100-240V, 50~60Hz
Mechanical	Dimensions	226.6 x 147.8 x 21.5 mm
Specification	Weight Operating Temp.	0.9 kg with battery -20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)
	Storage Temp.	-30°C to 70°C (-22°F to 158°F)
Environment	Humidity	10% to 90% RH, non-condensing
	•	
	Shock	MIL-STD-810H Method 516.8 Procedure I
	Vibration	MIL-STD-810H Method 514.8 Procedure I
	Drop	MIL-STD-810H Method 516.8, 5 ft.
	IP Rating	IP65 certified, dustproof and waterproof
Certificates	Certification	CE, FCC

Appendix B: Order Information

M900MGN Series Rugged Tablet available for order in the following configurations:

Order Information			
Product Series	Model Name	4G/ LTE	1D/2D Barcode Reader
M900MGN	M900MGN	N/A	N/A
	M900MGN-LA	Default	N/A
	M900MGN-LABH	Default	Default
	M900MGN-BH	N/A	Default

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