User Manual

AIM-78H Series

10” Mobile Computer with Android OS

ADVANTECH

Enabling an Intelligent Planet

Copyright

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Product Warranty (2 years)

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

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

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

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

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

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Declaration of Conformity

CE Conformity Statement CE

This device has been designed and manufactured in accordance with the following technical regulations: Medical Device Regulation (EU)2017/745, Radio Equipment Directive (RED) 2014/53/EU, and RoHS Directive: 2011/65/EU and (EU)2015/863.

Intended Use: AIM-78H is intended to be used as equipment for the general purposes of data collection and display for reference in hospital environments. It should not be used for life-support systems.

EMC:

- EN 55011: 2016 + A1:2017 (Group 1, Class B)
- ETSI EN 301 489-1 V2.2.3 (2019-11); ETSI EN 301 489-3 V2.1.1 (2019-03)
- EN 301 489-17 V3.2.4 (2020-09)
- EN 60601-1-2:2015

Safety:

- EN 60601-1:2006+A11:2011+A1:2013+A12:2014
- EN 62368-1:2014/A11:2017

RED:

- EN 300 328 V2.2.2: (2019-07); ETSI EN 301 893 V2.1.1 (2017-05)
- EN 300 330 V2.1.1 (2017-02)

RoHS:

- EN IEC 63000:2018

Products equipped with a radio transmitter are labeled with a CE Mark and may also carry the CE logo.

FCC

Operation of this device 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 commercial environments. 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 device in a residential area is likely to cause harmful interference. In such cases, users are required to correct the interference at their own expense. Users are advised that any equipment changes or modifications not expressly approved by the party responsible for compliance will void FCC compliance and may, therefore, void the user's authority to operate the equipment.

FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions to ensure RF exposure compliance. This transmitter must not be located or operating in conjunction with any other antennae or transmitters. This portable device is designed to meet the requirements for safe exposure to radio waves established by the Federal Communications Commission (USA). These requirements set an SAR limit of 1.6 W/kg averaged over one gram of tissue. Emissions are maintained within the band of operation under all conditions of normal operation as specified.

IC Warning Statement

This device complies with Industry Canada's license-exempt RSS standards. Operation of this device 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, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This radio transmitter has been approved by Industry Canada to operate with the antenna types listed below. The maximum permissible gain and required antenna impedance are indicated. Antenna types not included in this list, or whose gain is greater than the indicated maximum gain, are strictly prohibited for use with this device: (i) the device is for operation in the band of 5150 ~ 5250 MHz and is only for indoor use to reduce the potential for harmful interference with co-channel mobile satellite systems. (For devices installed in vehicles, point i. is not relevant.) Users should also be advised that high-power radars are allocated as primary users (i.e., priority users) of the bands 5250 ~ 5350 MHz and 5650 ~ 5850 MHz and that these radars can cause interference and/or damage to LE-LAN devices.
Le present emetteur radio a ete approuve par Industrie Canada pour fonctionner avec les types d'antenne enumeres ci-dessous et ayant un gain admissible maximal et l'impedance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est superieur au gain maximal indique, sont strictement interdits pour l'exploitation de l'emetteur: (i) l'appareil pour fonctionner dans la bande 5150 ~ 5250 MHz est réservé à une utilisation en intérieur afin de réduire les risques d'interférences nuisibles à la co-canal systèmes mobiles par satellite; Devraient également être informés les utilisateurs que les radars à haute puissance sont désignés comme utilisateurs principaux (c.-à-utilisateurs prioritaires) des bandes 5250 ~ 5350 MHz et 5650 ~ 5850 MHz et que ces radars pourraient provoquer des interférences et/ou endommager les appareils LE-LAN.

IC Radiation Exposure Statement

This EUT is in compliance with SAR for general population/uncontrolled exposure limits in IC RSS-102. This equipment should be installed and operated at a minimum distance of 20 cm between the radiator and your body.
Cet EUT est la conformite avec SAR pour la population generale/les limites d'exposition incontrolees dans IC RSS102. Cet equipement doit etre installe et utilise a une distance minimale de 0 cm entre le radiateur et votre corps.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be located or operated in

conjunction with any other antennae or transmitters. This portable device is designed to meet the requirements for exposure to radio waves established by the ISED. These requirements set an SAR limit of 1.6 W/kg averaged over one gram of tissue.
Cet équipement est conforme aux limites d'exposition aux rayonnements d'ISDE établies pour un environnement non contrôlé. L'utilisateur final doit suivre les instructions d'utilisation spécifiques pour se conformer à l'exposition aux RF. Cet émetteur ne doit pas être colocalisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur. L'appareil portable est conçu pour répondre aux exigences d'exposition aux ondes radio établies par ISDE. Ces exigences fixent une limite DAS de 1,6 W/kg en moyenne sur un gramme de tissu.

ENERGY STAR

ENERGY STAR-qualified devices deliver substantial energy savings over conventional devices. ENERGY STAR is a U.S. Environmental Protection Agency (EPA) voluntary program that helps businesses and individuals save money and protect our climate through superior energy efficiency. The ENERGY STAR program was established by the EPA in 1992, under the authority of the Clean Air Act Section 103(g). Section103 (g) of the Clean Air Act administrators to “conduct a basic engineering research and technology program to develop, evaluate, and demonstrate non–regulatory strategies and technologies for reducing air pollution”. In 2005, Congress enacted the Energy Policy Act. Section 131 of the Act amends Section 324 (42 USC 6294) of the Energy Policy and Conservation Act, and “established at the Department of Energy and the Environmental Protection Agency a voluntary program to identify and promote energy-efficient products and buildings in order to reduce energy consumption, improve energy security, and reduce pollution through voluntary labeling of or other forms of communication about products and buildings that meet the highest energy efficiency standards.”

Technical Support and Assistance

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

Any serious incident that has occurred in relation to the device shall be reported to the manufacturer and the competent authority of the member state in which the user and/or the patient is established.

Manufacturer

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Warnings, Cautions and Notes

Warning! *Warnings indicate conditions that if not observed can cause personal injury!*



Caution! *Cautions are included to help prevent hardware damage and data loss. For example,*



"Batteries are at risk of exploding if incorrectly installed. Do not attempt to recharge, force open, or heat the battery. Replace the battery only with the same or equivalent type as recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions."

Note! *Notes provide additional optional information.*



Document Feedback

To assist us in making improvements to this manual, we welcome comments and constructive criticism. Please send all such suggestions in writing to: support@advantech.com

Packing List

Before system installation, check that the items listed below are included and in good condition. If any item does not accord with the list, contact your dealer immediately.

- 1 x AIM-78H mobile computer
- 1 x AIM-78H power adapter
- 1 x AIM-78H power Cord

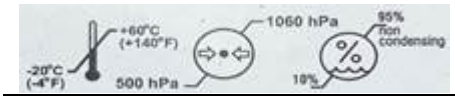
Safety Precautions - Static Electricity

Follow these simple precautions to protect yourself from harm and the products from damage.

- To avoid electrical shock, always disconnect the power from the PC chassis before manual handling. Do not touch any components on the CPU card or other cards while the PC is powered on.
- Disconnect the power before making any configuration changes. A sudden rush of power after connecting a jumper or installing a card may damage sensitive electronic components.

Explanation of Graphical Symbols

	IEC 60878 and ISO 3864-B.3.6: Warning dangerous voltage.
	ISO 7000-0434: Caution, consult accompanying documents.
	ISO 7000-1641: Follow operating instructions or consult instructions for use.
	IEC 60417-5009: Standby.
	IEC 60417-5032: Alternating current.
	IEC 60417-5031: Direct current.
	ISO 7010-M002: Follow instructions for use.
	CE Marking.
	FCC Marking.
	CCC Marking.
	UL Marking.
	A-Tick and C-Tick Mark - EMC Marking (Australia).
	VCCI Marking.
	China RoHS 10 Years Lifetime.
	BSMI Marking.
	Directive 2012/19/EU: WEE Symbol.
	NFC symbol.

	TELEC Marking.
	NCC marking.
	Serial Number Marking.
	Production Identifier: Lot Number Marking.
	GTIN Code Marking.
	Manufacture Date (YYMMDD) Marking.
	European Authorized Representative Marking.
	Swiss Authorized Representative Marking.
	Medical Device Marking.
	Packaging Marking (Temperature, Atmosphere, Pressure, and Humidity).
	RoHS Marking.
	Double insulation symbol.

Safety Instructions

1. Read these safety instructions carefully.
2. Retain this user manual for future reference.
3. This device should only be repaired by trained service personnel.
4. Advantech recommends that a service contract be obtained with Advantech customer service for carrying out all repairs, otherwise the correct functioning of the device may be compromised.

Warning! *Because of the danger of electric shock, never remove the case of a device while it is in operation or connected to a power outlet.*



En raison du risque d'électrocution, ne retirez jamais la boîte d'un appareil lorsqu'il est en fonctionnement ou branché à une prise de courant.

5. If any of the following occurs, have the equipment checked by qualified service personnel:
   - The power cord or plug is damaged.
   - Liquid has penetrated the equipment.
   - The equipment has been exposed to moisture.
   - The equipment is malfunctioning or does not operate according to the user manual.
   - The equipment has been dropped and damaged.
   - The equipment shows obvious signs of breakage.
6. Disconnect the equipment from all power outlets before cleaning. Use only a damp cloth for cleaning. Do not use liquid or spray detergents.
7. Protect the equipment from humidity.

Caution! *To avoid short circuits and damage to the device, do not allow fluids to come into contact with the device. If fluids are accidentally spilled on the equipment, remove the affected unit from service as soon as possible and contact service personnel to verify that patient safety is not compromised.*



Pour éviter les courts-circuits et endommager l'appareil, ne laissez pas les liquides entrer en contact avec l'appareil. Si des liquides sont accidentellement répandus sur l'équipement, retirez l'unité concernée du service dès que possible et contactez le personnel de service pour vérifier que la sécurité du patient n'est pas compromise.

8. For pluggable equipment, the power outlet socket must be located near the equipment and easily accessible.
9. Place the equipment on a reliable surface during installation. Dropping or letting the equipment fall may cause damage.
10. Do not leave this equipment in an uncontrolled environment where the storage temperature is below 0 °C / 32 °F or above 45 °C / 113 °F. This may damage the equipment.
    Ne laissez pas cet équipement dans un environnement non contrôlé où la température de stockage est inférieure à 0 °C / 32 °F ou supérieure à 45 °C / 113 °F. Ceci pourrait endommager l'équipement.
11. Grounding reliability can only be achieved when the equipment is connected to an equivalent receptacle marked “hospital only” or “hospital grade”.
12. Use a power cord that has been approved and complies with the safety standards of your country and that matches the voltage of the power outlet.

13. If the integrity of the protective earth conductor is in doubt, turn off the power to the device.
14. To disconnect this product from the mains supply, disconnect the mains plug from the power outlet socket. The power supply unit is regarded as part of this equipment.
15. When using this device, do not contact SIP/SOPs and a patient at the same time.
16. Do not power on/off the battery system during operation.

Warning! *To avoid risk of electric shock, this equipment must only be connected to a supply mains with protective earthing.*



Pour éviter tout risque d'électrocution, cet équipement doit uniquement être raccordé à une alimentation secteur avec terre de protection.

Warning! *No modification of this equipment is allowed.*



Aucune modification de cet équipement n'est autorisée.

17. The power cord for use on the device shall be no less robust than an ordinary tough rubber sheathed flexible cord (IEC 60245-1:2003, Annex A, designation 53) or ordinary polyvinyl chloride sheathed flexible cord (IEC 60227-1:1993, Annex A, design. 53. For US/CA the requirements of the NEC and Canadian code shall be followed (US and CA national differences).

Warning! *The device battery, equipotential pin, metal wiring on the equipotential pin, wheels, and brake must be replaced/serviced by the manufacturer every two years. If this is not conducted, malfunctions, electric shock, equipment damage, and environmental pollution may occur.*



Le système de batterie, la broche équipotentielle, le câblage métallique sur la broche équipotentielle, les roues et le frein doivent être remplacés/renvoyés par le fabricant tous les deux ans. Si cela n'est pas effectué, des dysfonctionnements, des chocs électriques, des dommages matériels et une pollution de l'environnement peuvent survenir.

18. If the device clock is unable to maintain accurate time, check the battery.

Caution! *If the battery has problems charging, contact a qualified technician or your retailer.*



The computer is provided with a battery-powered real-time clock circuit.

Batteries are at risk of exploding if incorrectly replaced. Replace only with the same or equivalent type as recommended by the manufacturer.

Discard used batteries according to the manufacturer's instructions.

Lorsque la batterie a un problème de charge, veuillez contacter un technicien qualifié ou votre revendeur.

L'ordinateur est équipé d'un circuit d'horloge en temps réel alimenté par batterie.

Il y a un risque d'explosion si la batterie est incorrectement remplacée. Remplacez uniquement par le même type ou un type équivalent recommandé par le fabricant.

Jetez les piles usagées conformément aux instructions du fabricant.

Caution! *When servicing the device, always use replacement parts that meet Advantech standards. Advantech cannot warrant or endorse the safe performance of third-party replacement parts for use with our medical devices.*

Lors de la maintenance de l'appareil, utilisez toujours des pièces de rechange conformes aux normes Advantech. Advantech ne peut pas garantir ou endosser les performances sécuritaires des pièces de rechange tierces à utiliser avec notre dispositif médical.

19. When networking with electrical devices, the operator is responsible for ensuring that the resulting system meets the requirements set forth by the following standards:
    - EN 60601-1 (IEC 60601-1)
      Medical electrical equipment
      Part 1: General requirements for safety
    - EN 60601-1-2 (IEC 60601-1-2)
      Medical electrical equipment
      Part 1-2: General requirements for safety
      Collateral standard: Electromagnetic compatibility; Requirements and tests
20. Follow national, state, or local requirements to dispose of the unit.
21. Maintenance: To properly maintain and clean the surfaces, use only the approved products or clean with a dry applicator.

CLASSIFIED c UL us E349709 4LY4
MEDICAL-GENERAL MEDICAL EQUIPMENT
AS TO ELECTRICAL SHOCK. FIRE AND MECHANICAL
HAZARDS ONLY IN ACCORDANCE WITH
ANSI/AAMI ES 60601-1 (2005) + AMD 1 (2012)
CAN/CSA-C22.2 No.60601-1:14

22. This equipment must not be used as a life support system.
23. Accessory equipment connected to analog and digital interfaces must be in compliance with the respective nationally harmonized IEC standards (i.e., IEC 60950 for data processing equipment, IEC 60065 for video equipment, IEC 61010-1 for laboratory equipment, and IEC 60601-1 for medical equipment.) Furthermore, all configurations shall comply with the IEC 60601-1 ME system standards. Anyone who connects additional equipment to the signal input or output port is configuring a medical system, and therefore, is responsible to ensure that the system complies with the requirements for an IEC 60601-1 ME system. The unit is for exclusive interconnection with IEC 60601-1 certified equipment in the patient environment and IEC 60XXX certified equipment outside of the patient environment. If in doubt, consult Advantech customer service or your local retailer.
24. Position the power cord away from high-traffic areas. Do not place anything over the power cord.
25. The accompanying Delta/MEA-045AA2C adapter (Input: 100 ~ 240 V_{AC}, 50 ~ 60 Hz, 1A; Output: 5 V_{DC}/3A or 9 V_{DC}/3A) forms part of the device.
26. Remove the power cord to fully disconnect all power to the device.
27. In the event of a serious injury involving the device, contact the manufacturer and relevant local authorities immediately.
28. To prevent unauthorized access, Advantech recommends installing suitable anti-virus software and taking care not to connect to unsafe external networks.

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

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Chapter 1

Getting Started

1.1 Getting started

When you first get your tablet, you should charge it and keep it on for at least 6 hours.

1.1.1 Packing List: Standard Model

Color options for tablet: white/black (according to your order)

1. 1 x Tablet PC
2. 1 x Power adapter
3. 1 x Power cord



The peripherals listed below may be included with the product according to your order.

1.1.1.1 Extension Modules

- Barcode scanner (20°)
- Barcode scanner (70°)

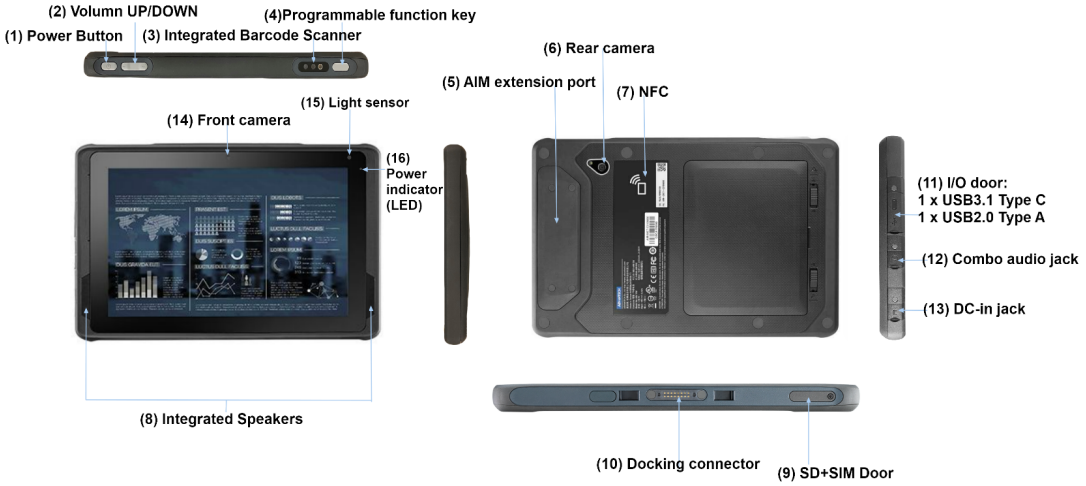
1.1.1.2 Optional Accessories

- Hand strap
- Shoulder strap
- Battery pack
- Stylus pen
- Rotatable hand strap

1.1.1.3 Optional Dock/Charging Stations

- Multi-tablet charging station
- Multi-battery charging station
- Desk Docking Station
- VESA Docking Station
- Vehicle Docking Station

1.1.2 Device Layout



No	Item	Description
1	Power Button	Power on/off the device.
2	Volume UP/DOWN	Controls the volume.
3	Integrated Barcode Scanner	Scans barcodes and sends the data to a smart device running a software application for data processing.
4	Programmable function key	Used to set the functions of extension modules.
5	AIM extension port	Can be integrated with optional peripherals, including a 1D/2D barcode scanner or other peripherals
6	Rear Camera	13.0-megapixel aufo-focus camera with LED flash
7	NFC	Provides wireless connectivity for data transfer.
8	Integrated Speaker	Emits sound.
9	SD+SIM Door	SIM card reader port for Micro SIM cards. Memory card reader port for Micro SD cards
10	Docking connector	For connecting docking solutions, such as a vehicle dock, to supply power and an external antenna
11	I/O Door	1 x USB 3.1 Type-C 1 x USB 2.0 Type-A
12	Combo Audio Jack	Can be transformed into two separate ports: 1 x mic-in and 1 x power jack
13	DC-in jack	A DC power jack for power input
14	Front Camera	8.0-megapixel fixed-focus camera
15	Light sensor	Adjusts the visual experience and lighting to ensure comfortable use
16	Power indicator (LED)	Shows the current status of the device for battery and AC power X = Don't Care

	Power On		Power Off
	Charging	No-charging	X
AC only	Green	Green	Green Flash
Battery 95 ~ 100%	Blue	Green	x
Battery 10 ~ 94%	Blue	Off	x
Battery 0 ~ 9%	Blue	Orange	x
Battery 100 ~ 94%	x	x	Green
Battert 93% ~ 0%	x	x	Orange
Abnormal	Orange Flash		

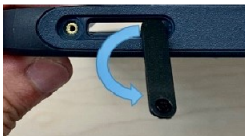
Chapter 2

Device Setup

2.1 Micro SD/SIM Card Installation

1. Open the protective I/O cover using a screwdriver.
   Caution: The SD/SIM card door is opened by rotating, please DO NOT PULL it.





2. Pull out the micro SD/SIM card tray using a pin.
3. Place the micro SD or SIM card onto the tray and insert the tray back into the card slot.

2.2 Battery Warning

Caution! *Batteries are at risk of exploding if incorrectly replaced. Replace only with the same type as recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.*

Danger d'explosion si la batterie est inexactement remplacée. Remplacez seulement avec la même chose ou le type recommandé par le fabricant, jettent les batteries utilisées instructions de s selon fabricant des'.

Discontinue using the device immediately if you notice the battery is swelling, puffy, or misshapen. Do not attempt to disassemble the computer or its accessories. The battery should only be replaced by qualified repair personnel.

Do not dispose of old batteries by throwing them in a fire. Follow local regulations for safe battery disposal.

This device should only be powered by a Getac AIM-BAT-8, 4900 mAH polymer lithium-ion battery. Use of any another battery may cause risk of fire or explosion.

2.2.1 Battery Charging Notice

It is important to consider the environment temperature when charging a lithium-ion battery. Charging is more efficient in slightly cooler ambient or room temperatures.

For this device, we recommend charging the battery within the specified operating temperature range between 0 °C / 32 °F and 45 °C / 113 °F. Charging batteries in temperatures outside of this range may damage or shorten the battery life cycle.

2.2.2 Storage and Safety Notice

Although charged lithium-ion batteries can be left unused for several months, their capacity may be depleted due to a buildup of internal resistance. If this happens, they will require recharging prior to use.

Lithium-ion batteries may be stored at temperatures of between -20 °C / -4 °F and 60 °C / 140 °F. However, at the upper end of this range, they may deplete more rapidly.

We recommend storing batteries within the standard ambient room temperature range.

2.3 Battery Installation/Replacement

2.3.1 Battery Removal

1. Turn off the device and disconnect the AC power adapter.
2. Place the device on a reliable surface, with the back facing upwards.
3. On the bottom of the battery cover there is a small notch and two small door locks beside it. Unlock the door locks first and then open the battery cover by lifting this notch up and away from the device.



4. Lift the battery out by pulling the ribbon attached to the underside of the battery.



2.3.2 Battery Installation

1. To insert the battery, start by placing the upper edge inside the battery compartment and then lowering the battery into place.
2. Press the bottom and sides of the battery to ensure it is fully inserted.



3. Press the battery cover starting with the top edge. Press along the edge of the battery cover until it clicks into place to ensure secure installation. Lastly, lock the door locks.



2.4 Power Supply Installation

AIM-78H operates on either external AC power or internal battery power. We recommend using AC power when starting up the device for the first time.

Warning! *Use only the AC adapter provided by Advantech to power the device. The use of other AC adapters may damage the device and battery. For users wanting to start up the device for the first time using internal battery power, ensure that the battery is fully charged before use.*

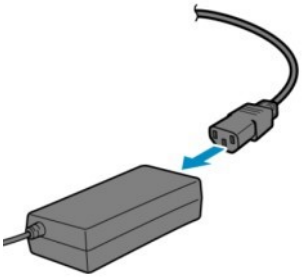
Utilisez uniquement l'adaptateur secteur fourni avec votre ordinateur tablette. L'utilisation d'autres adaptateurs secteur peut endommager la tablette et la batterie. Pour les utilisateurs qui démarrent l'ordinateur tablette pour la première fois avec une alimentation par batterie interne, veuillez vous assurer que la batterie est complètement chargée avant de l'utiliser.

Follow the instructions below to connect the device to the AC power adapter.

1. The power input port is located on the bottom right side of the device. Remove the protective I/O cover by pulling on the tab.



2. Plug the power cable into the AC adapter inlet.



3. Plug the AC adapter cable into the power input port.



When the AC adapter is connected, if there is a battery installed, it will begin charging. The charging status of the battery will be shown via the LED indicator. Refer to Section 1.2 (Device Layout) for information regarding the different status indications of the LED indicator.

Replaceable Battery: 10.8 V, 2400 mAh, 26 WHr	
Operating time Charging time	Approximately 6 hr (depending on the usage scenario) < 3 hours

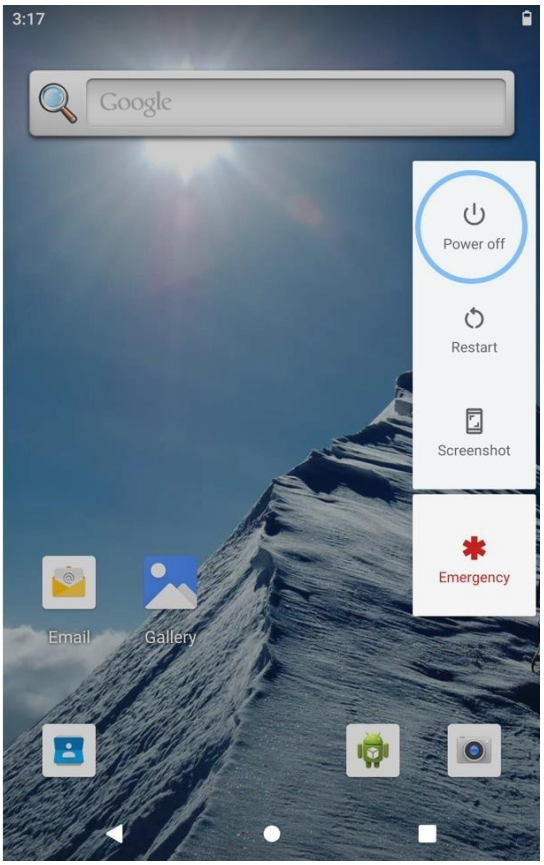
2.5 Device On/Off/Wake Up

2.5.1 Power On

The power button is located on the upper left side of the device. Press and hold the power button for 3 seconds to power on the device.

2.5.2 Power Off

1. To turn off the device, press and hold the power button until the options menu appears. Then tap the **power off** icon . (Users can also reboot the device or make an emergency call via the options menu.)



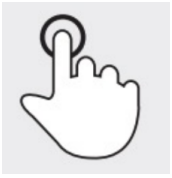
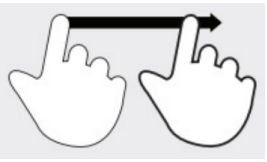
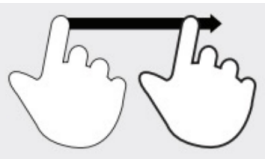
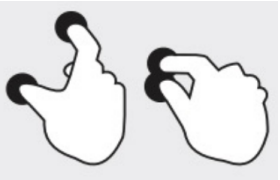
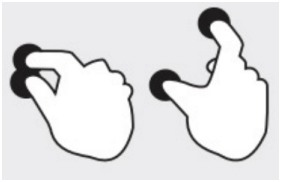
2.5.3 Wake Up

To reduce unnecessary power consumption, the device will automatically go into sleep mode after 1 minute of inactivity. Users can wake up the device by simply pressing the power button and the screen should light up.

2.6 Touchscreen Display

The AIM-78H touchscreen supports Android gestures as explained below.

Caution! *The touchscreen is designed to be touched gently with fingers. Do not press the touchscreen too hard or push into it with a pointed object such as a fingernail, pen, or pin.*

Gesture	Action	Description
Tap		Brief touch with a fingertip
Press		Touch with a fingertip for an extended period of time
Drag		Move a fingertip over the touchscreen surface without losing contact
Flick		Quick brush across the touchscreen surface with a fingertip
Pinch		Place two fingers on the touchscreen surface and move them toward each other
Spread		Place two fingers on the touchscreen surface and move them away from each other
Double-tap		Two quick touches with a fingertip

2.6.1 Cleaning and Sanitation

AIM-78H should be cleaned and disinfected regularly to ensure compliance with hygiene and sanitation regulations for healthcare facilities.

Instructions

1. Power off the device and unplug the power cable.
2. Wipe the screen and exterior of the device using only a soft cloth moistened with water. Do not use liquid or aerosol cleaners on the screen as they can ruin the finish and damage the screen.
3. To disinfect the device after use, wipe the LCD screen using only a soft cloth dampened with 60% (or higher) isopropyl alcohol or ethyl alcohol. (Do not spray any cleaning agents on the chassis.)

Caution! *Do not use cleaning agents or disinfectants that contain phenol.*



Do not autoclave or clean the device or peripherals using strong aromatic, chlorinated, ketone, ether, or ether solvents, sharp tools or abrasives.

Caution! *Never immerse the device or peripherals in liquid. If the device is accidentally exposed to liquid, immediately disconnect it from the power source. Contact your IT department regarding the continued safety of the device before placing it back in operation.*



2.6.2 Screen Locking

1. On the home screen, swipe up to access the options menu. Tap the **Settings** icon , and then select the **Security** option.
2. On the Security option menu, select **screen lock** and configure the lock settings according to your preference.

2.7 User Interface

AIM-78H is equipped with an Android interface for ease of operation.

2.7.1 Home Screen

The Home screen is the starting point of navigating the device. Customize your Home screen by adding application shortcuts, widgets, folders, and wallpapers.

2.7.2 Notification Panel

Notifications appear as icons on the status bar along the top of the Home screen. Icons for notifications appear on the left and icons for status appear on the right. Swiping down on the status bar will open the full-screen notification panel.



Figure 2.1 Status bar for notification icons

On the notification panel, users can swipe down on any notification for an expanded view with additional details and action options (if applicable).

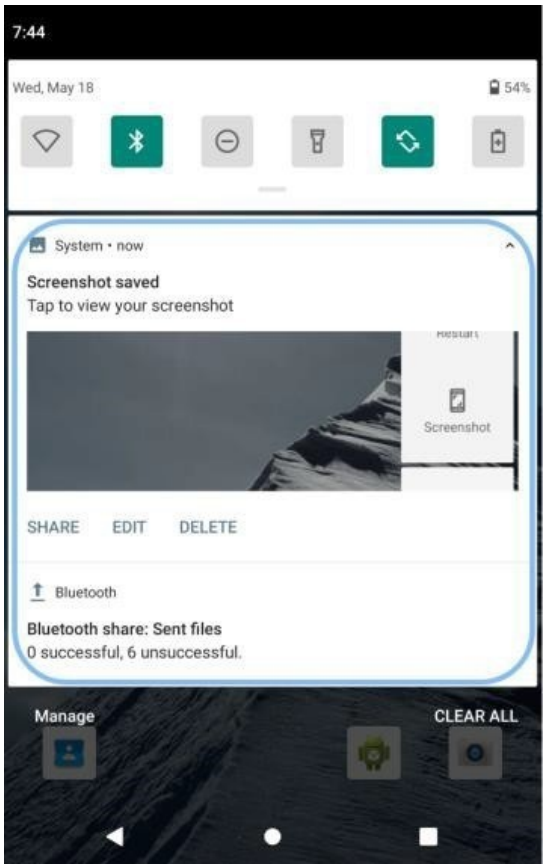


Figure 2.2 Notification panel with expanded notification

2.7.3 Navigation Bar

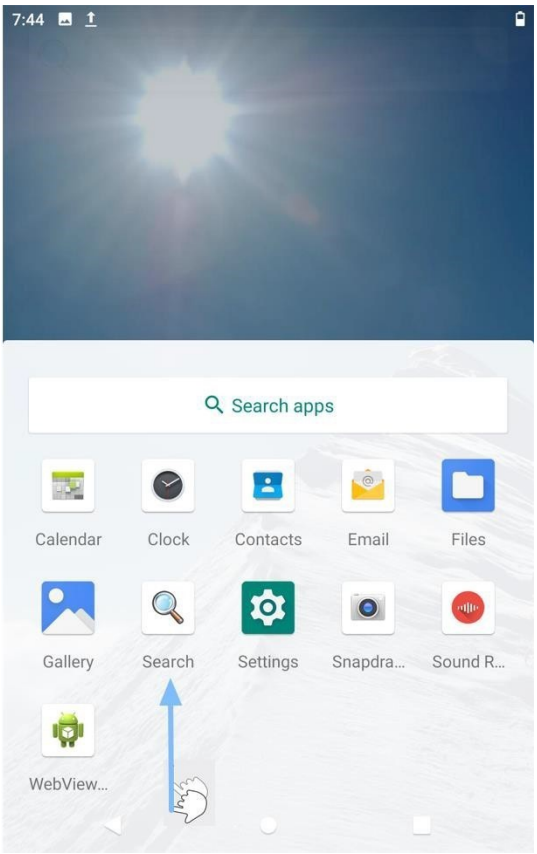


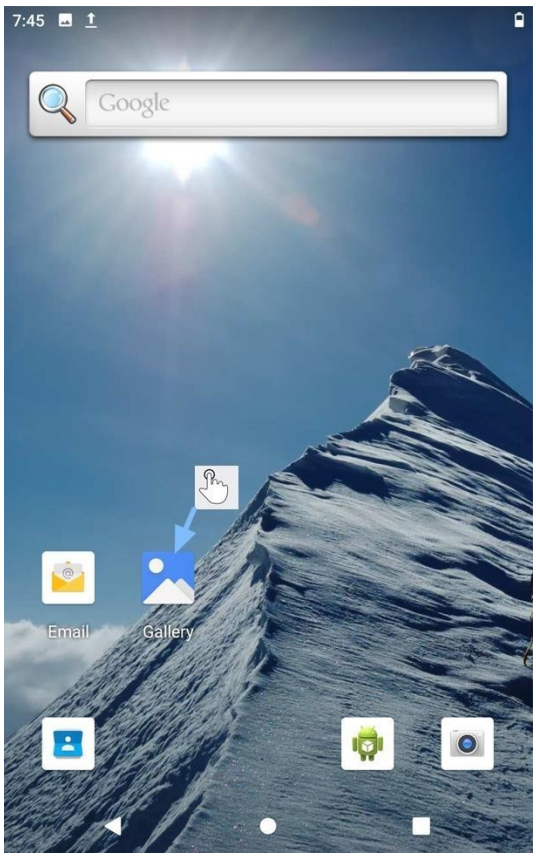
The navigation bar is located along the bottom of the home screen and features three soft keys.

Left key: Back
Middle key: Home
Right key: Overview

2.7.4 Application Shortcuts

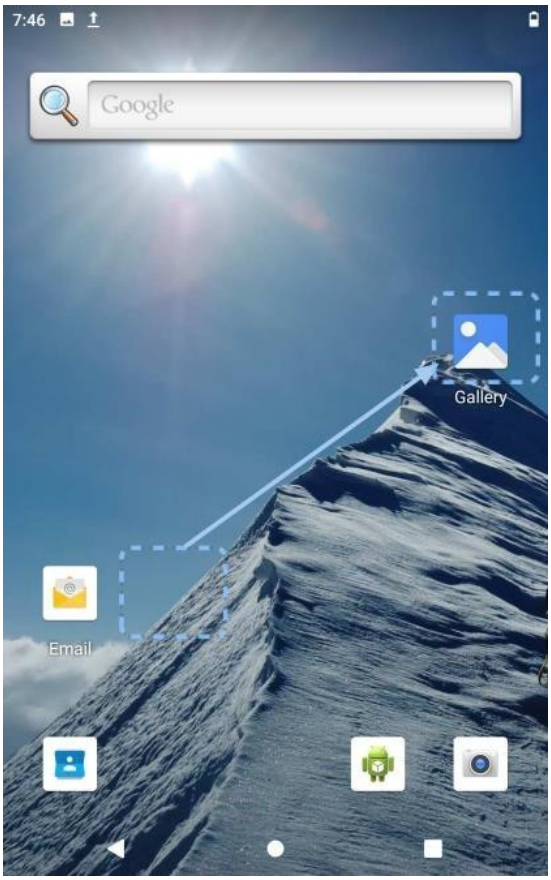
App shortcuts appear as icons on the Home screen and can be used to quickly launch any application. To access the Home screen, simply swipe up from the bottom edge of the screen.





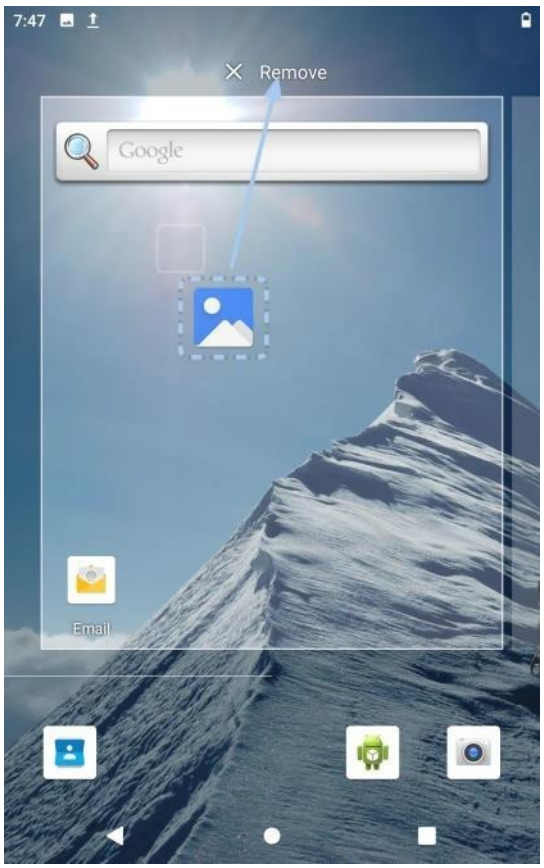
2.7.4.1 Add App Shortcuts to the Home Screen

Touch and hold an app shortcut, then drag it to the home screen and release it.



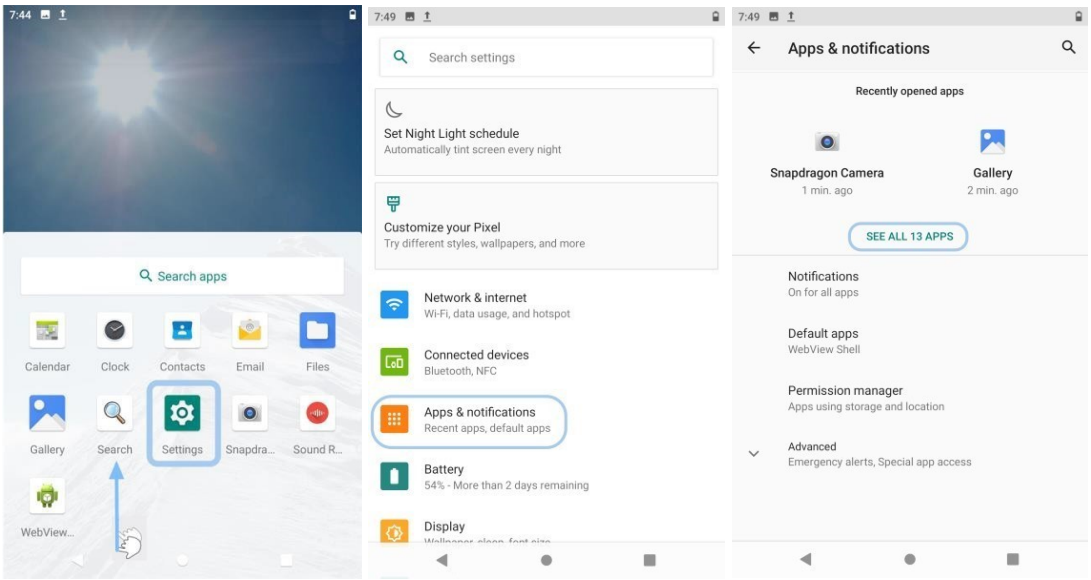
2.7.4.2 Remove App Shortcuts from the Home Screen

1. Tap and hold the icon of the app shortcut you want to remove. The app launcher will show the Remove option at the top of the screen.
2. Drag the app icon to the Remove option. When the icon turns gray, release it.



2.7.4.3 View All Apps

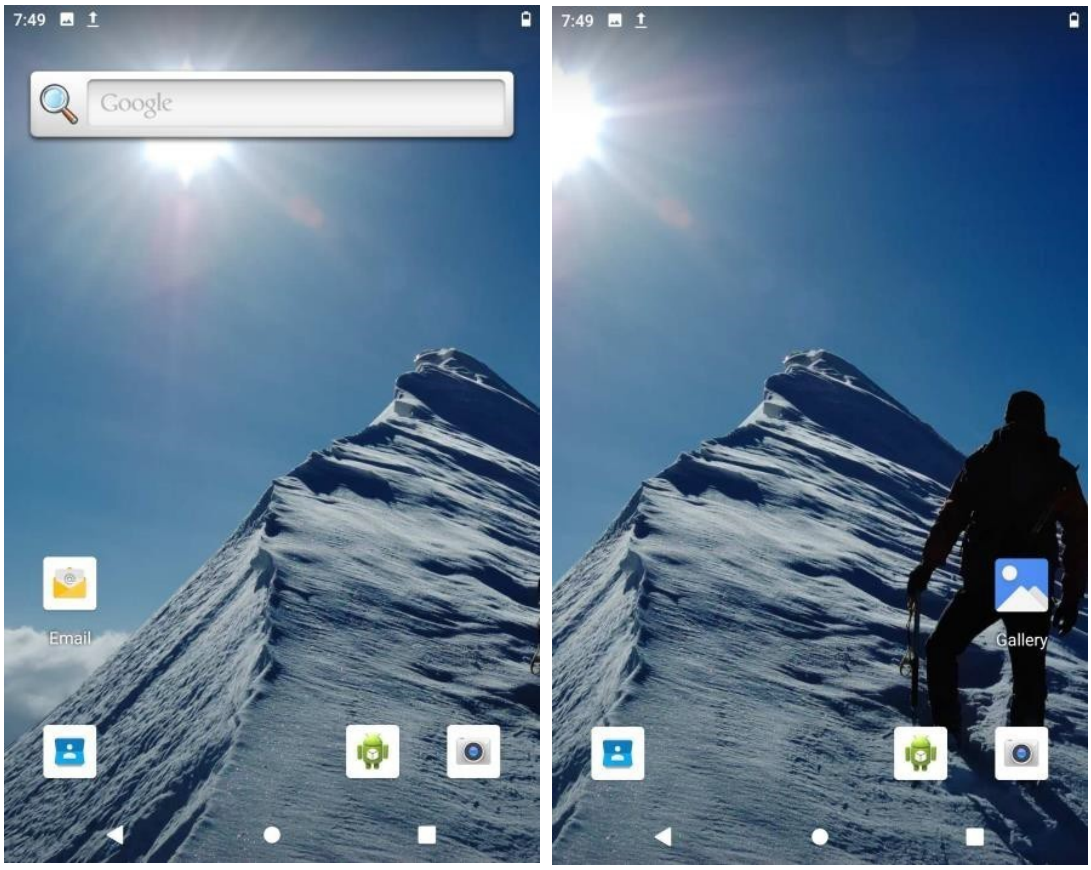
1. Swipe up from the bottom of the Home screen. Tap the **Settings** icon .
2. Select the **Apps and Notifications** option , then click **SEE ALL APPS**.



2.7.5 Manage Home Screens

The interface supports multiple Home screen pages by default. Users can add and rearrange additional Home pages, app shortcuts, and widgets as required.

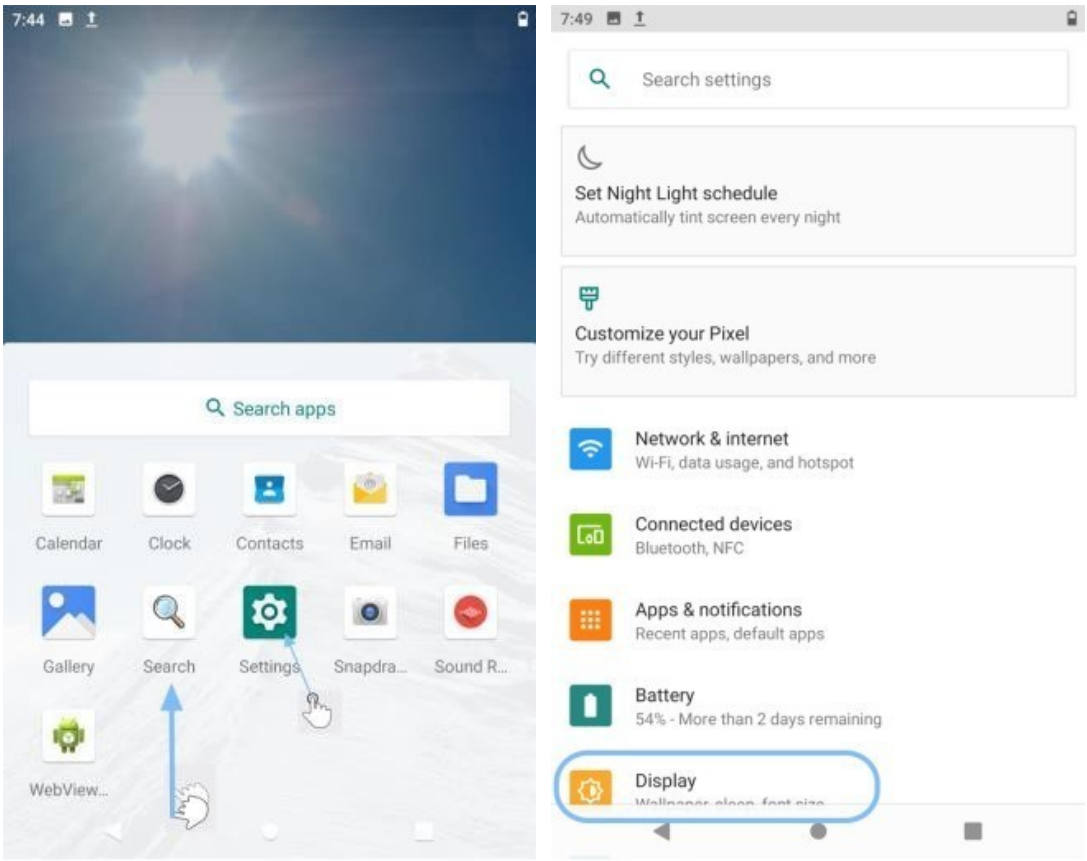
To access other Home screen pages, simply slide your finger left/right across the Home screen.



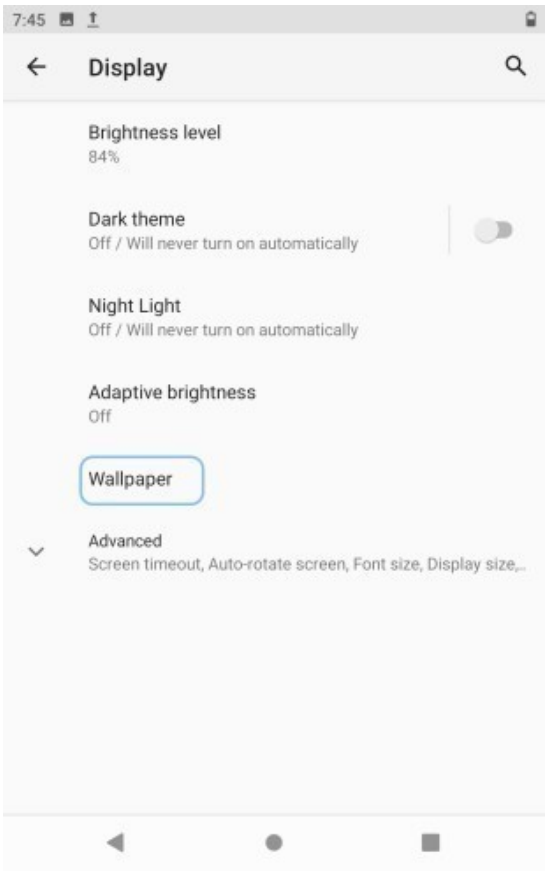
2.7.5.1 Change the Wallpaper

Users can customize the appearance of the Home and Lock screens by changing the wallpaper.

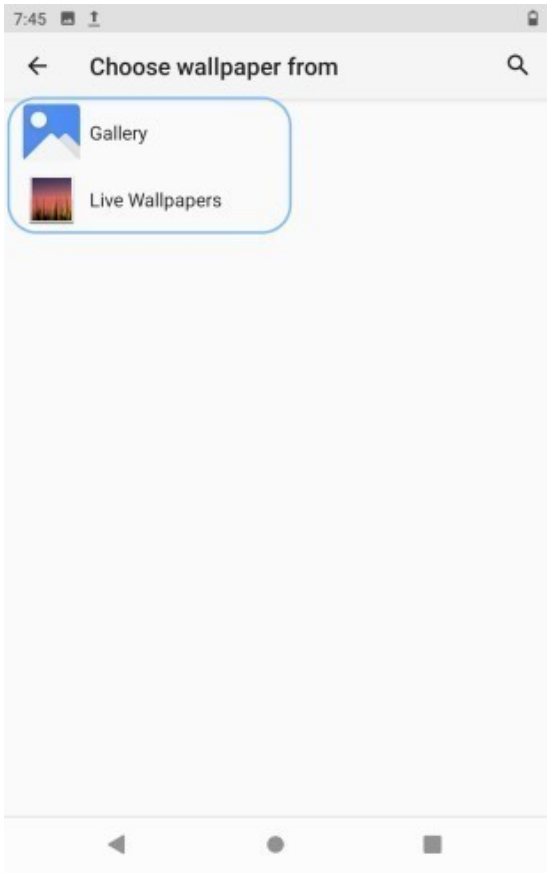
1. Swipe up from the bottom of the Home screen.
2. Tap the **Settings** icon and then select the **Display** option .



3. Tap the **Wallpaper** option.



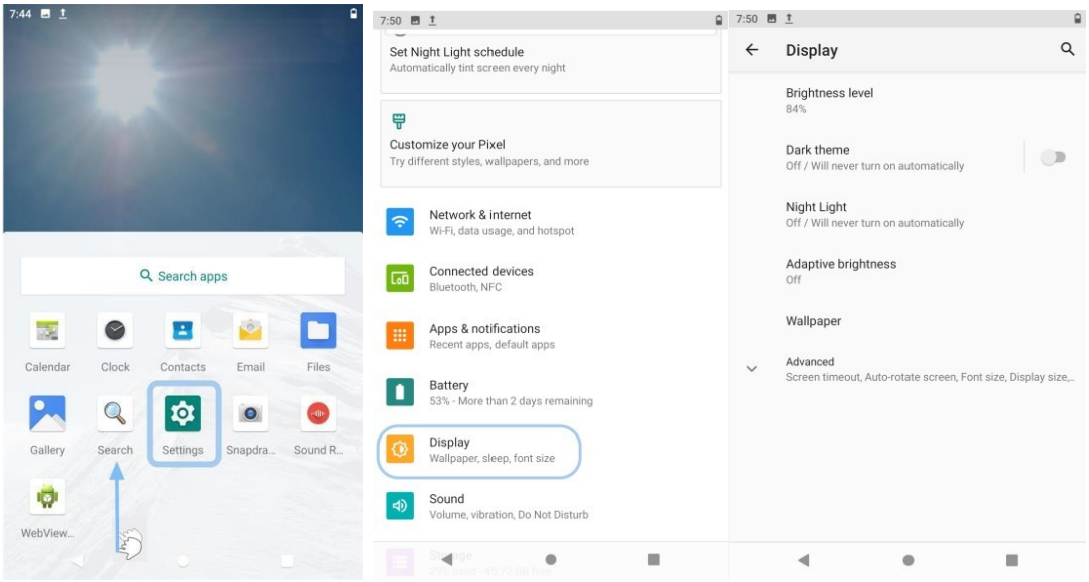
4. Select the image to set as the wallpaper.



2.7.6 Display Settings

Users can adjust the display settings to suit the usage environment or to conserve battery power.

1. To access the display settings, swipe up from the bottom of the Home screen.
2. Tap the **Settings** icon and then select the **Display** option .

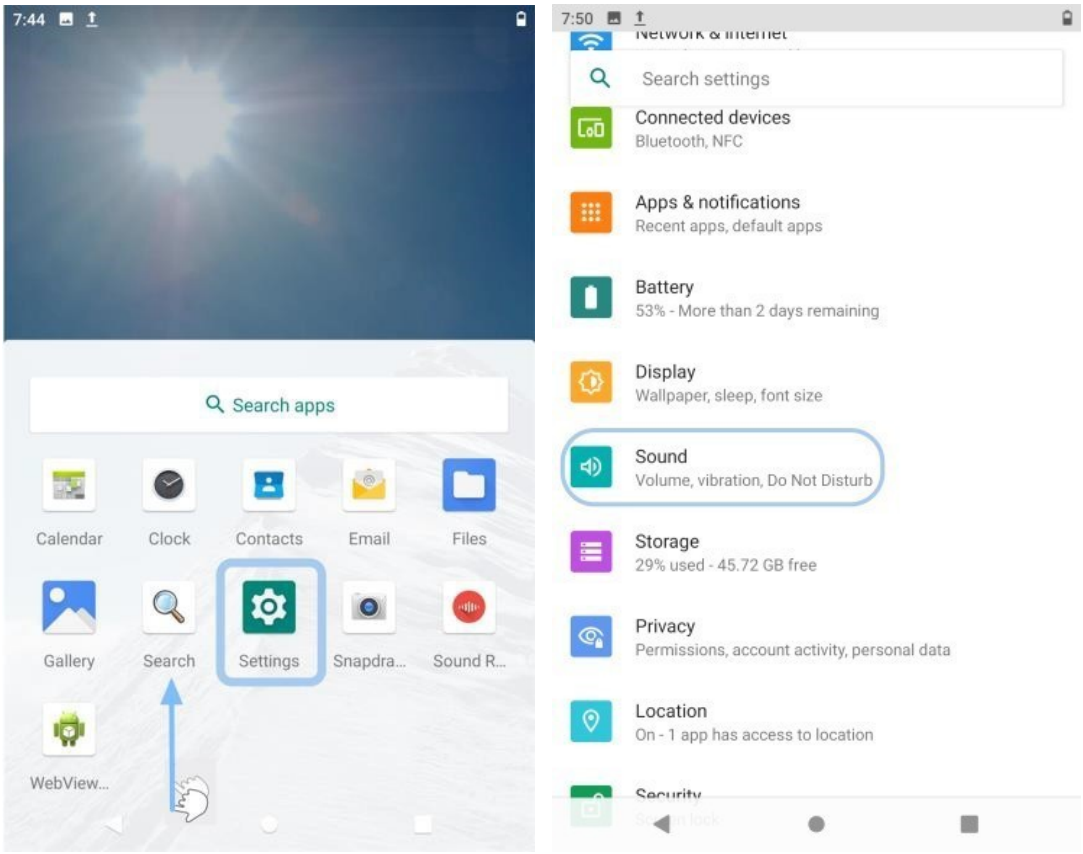


- Brightness level: Adjust the screen brightness.
- Dark theme: Switch to the dark theme to reduce power consumption and improve usability in low-light environments. Applies to both the Android system UI and apps running on the device.
- Night light: Reduce the amount of blue light emitted by the display to better match the natural light of the user's time of day and location.
- Adaptive brightness: Enable the device to automatically change the screen brightness to match the surrounding lighting conditions.
- Wallpaper: Set or change the wallpaper for the Home and Lock screens.
- Screen timeout: Set the screen to lock automatically after a period of time.
- Auto-rotate screen: Enable the device to switch the screen orientation between portrait and landscape automatically when the device is rotated.
- Font size: Make the text on screen smaller or larger.
- Display size: Make the items/icons on the screen smaller or larger. This may change the position of some app shortcuts on the Home screen.
- Screen saver: Set the device to initiate a screen saver after a period of inactivity. It can be either a blank screen or moving images/patterns.

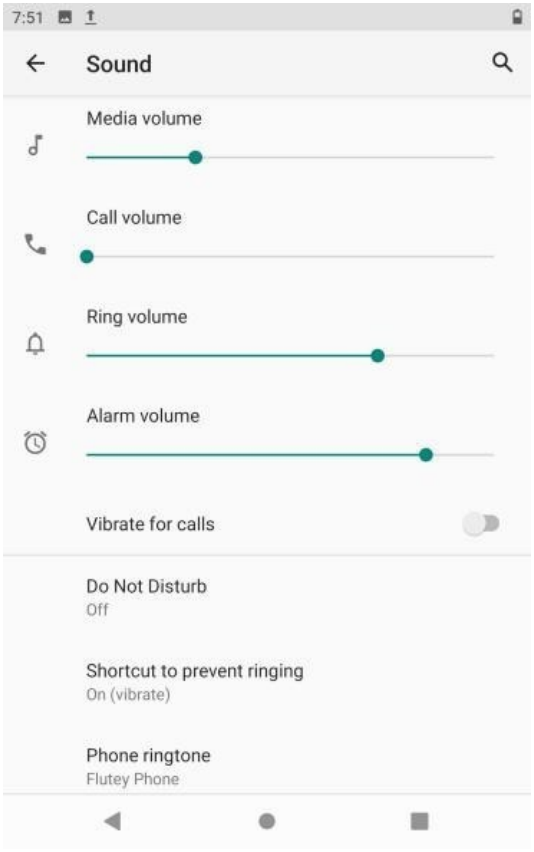
2.7.7 Sound Settings

Users can configure the sounds for notifications and calls, adjust the volume, set vibration alerts, and switch between sound modes to ensure an optimal usage experience.

1. Swipe up from the bottom of the Home screen.
2. Tap the **Settings** icon and then select the **Sound** option .



3. The **Sound** menu allows users to adjust the media volume, call volume, ring volume, and alarm volume, as well as other sound settings.



2.7.7.1 Adjust Volume

Increase/decrease volume

In the **Sound** menu, use the slider controls to adjust the volume level settings.

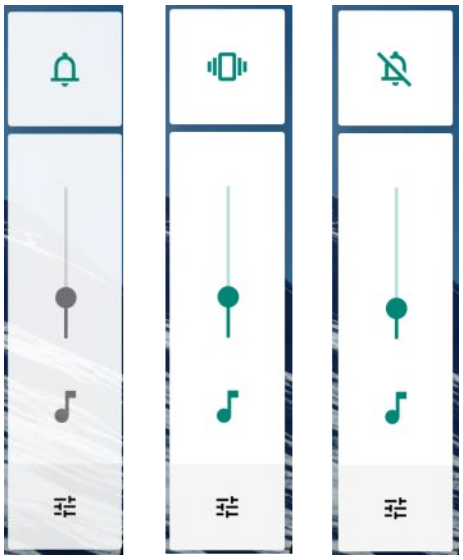
- Media volume: Music, videos, games, other media
- Call volume: In-call volume during calls
- Ring volume: Calls, notifications
- Alarm volume

Alternatively, press the physical volume buttons located on the side of the device.

Turn on vibrate or mute

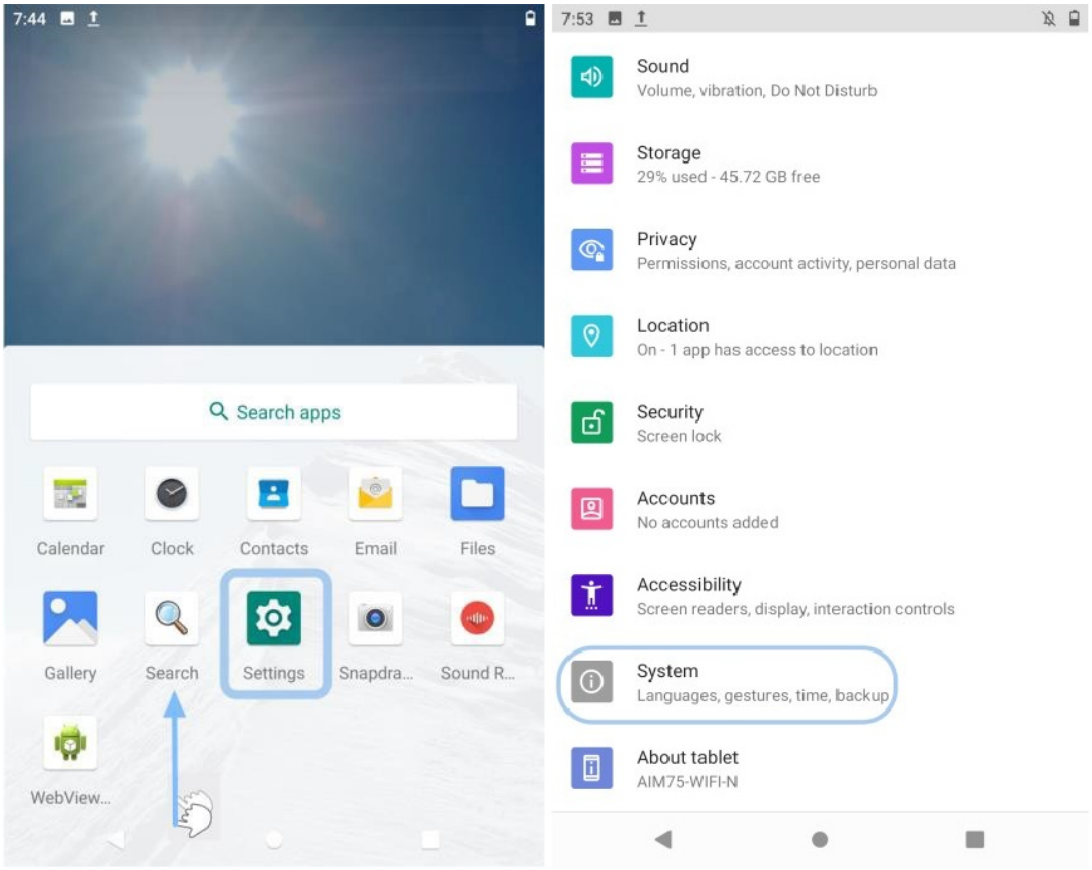
1. Press a physical volume button located on the side of the device.
2. On the right, above the slider, tap the **Ring** icon .

- To turn on vibrate, tap Vibrate .
- To turn on mute, tap Mute .

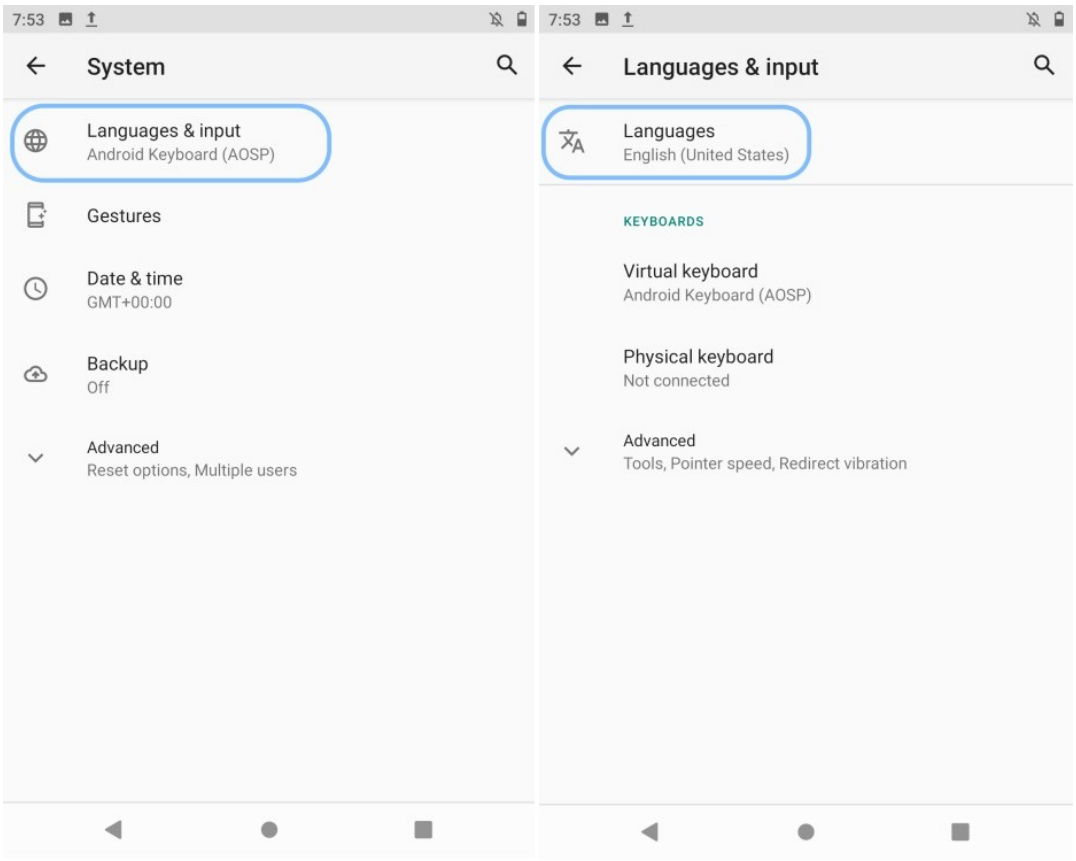


2.7.8 Language Settings

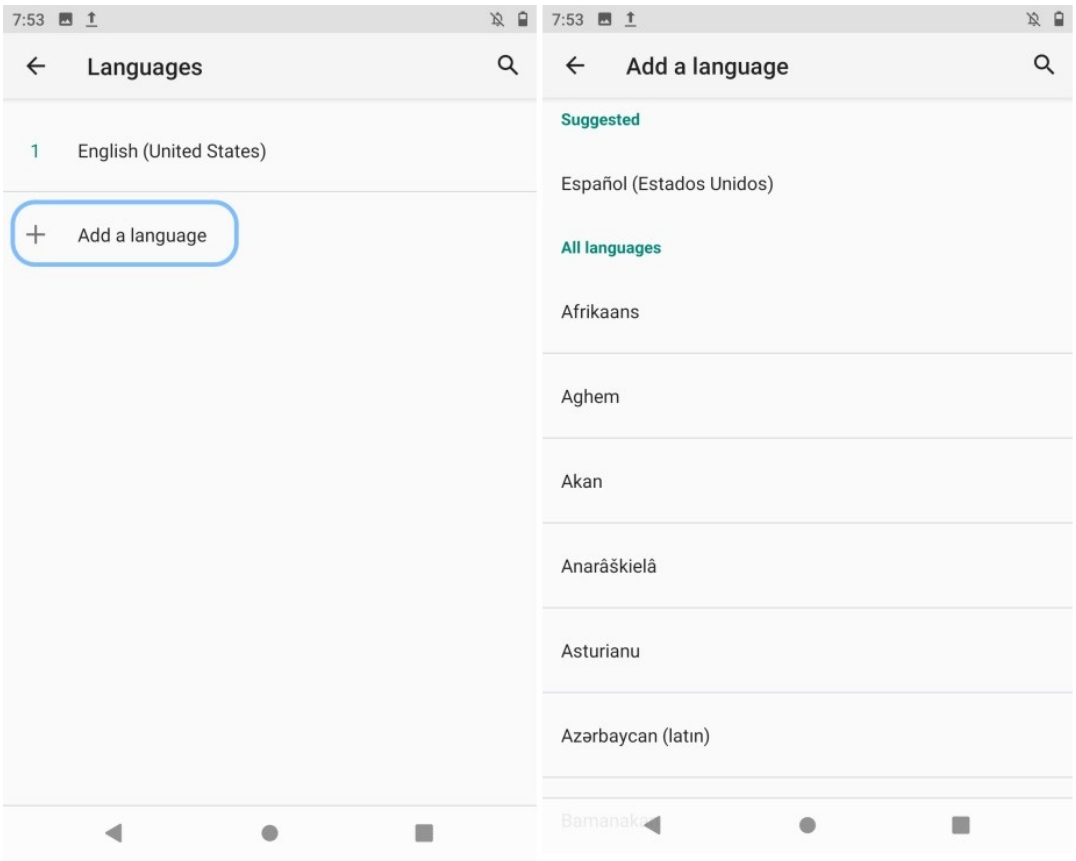
1. Swipe up from the bottom of the Home screen.
2. Tap the **Settings** icon then select the **System** option .



3. Select **Languages & input** and click **Languages**.



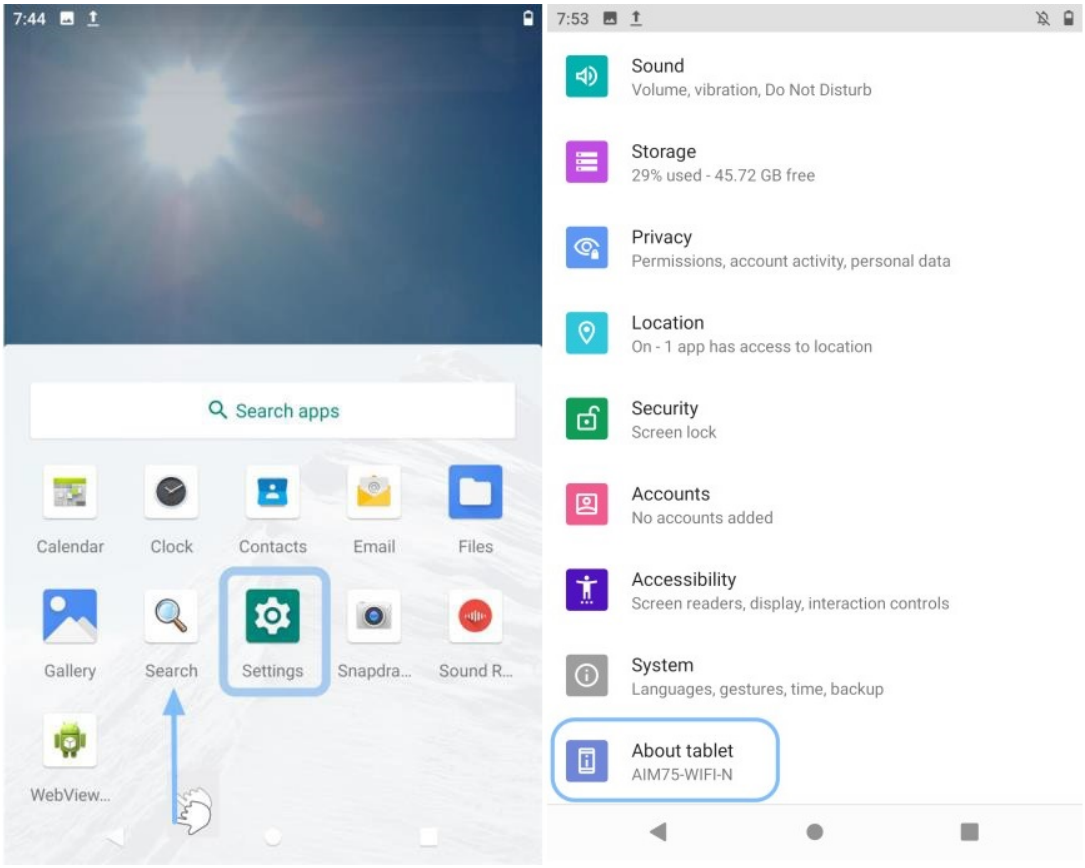
4. Click **Add a language** and set your desired language.



2.7.9 About Tablet

Information about the device, including the device name, model, serial number, hardware specifications, and software version can be found in **About tablet**.

1. Swipe up from the bottom of the Home screen.
2. Tap the **Settings** icon and then click **About tablet** .



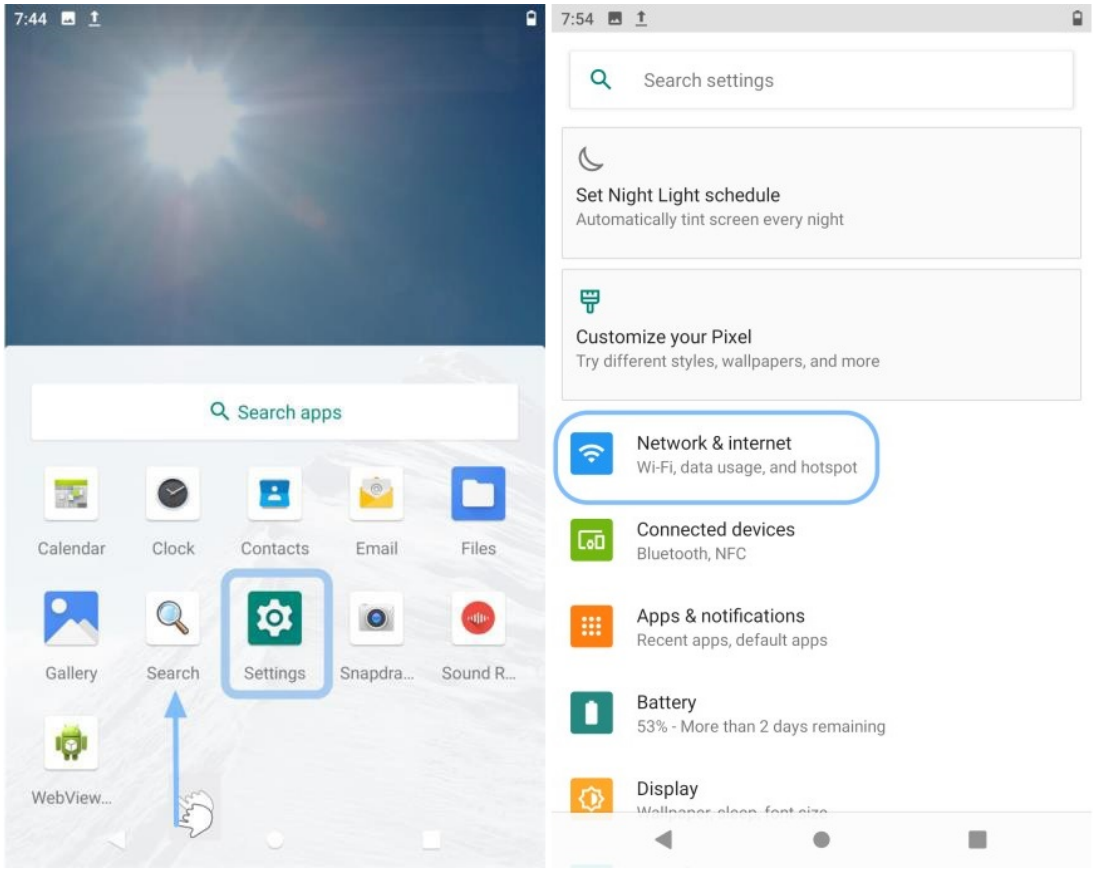
- Device name: View and configure the device name
- Emergency information: Enter and edit information and contact details for use in the event of an emergency
- Legal information: Enter information relevant for support teams
- Model and hardware: View the device model, serial number, and hardware specifications
- Build number: View the software version that is currently running on the device

Chapter 3

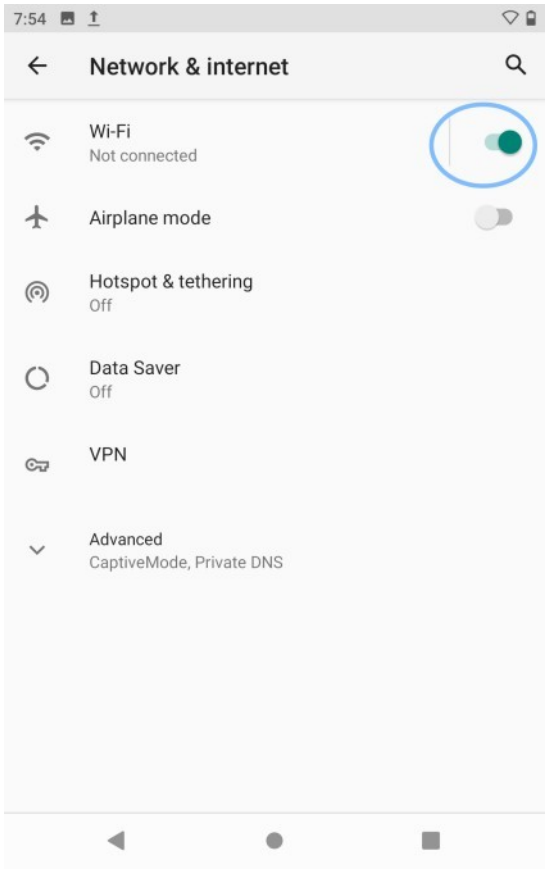
Network Connectivity

3.1 Connect to Wi-Fi

1. Swipe up from the bottom of the Home screen.
2. Tap the **Settings** icon and select the Network & Internet option .



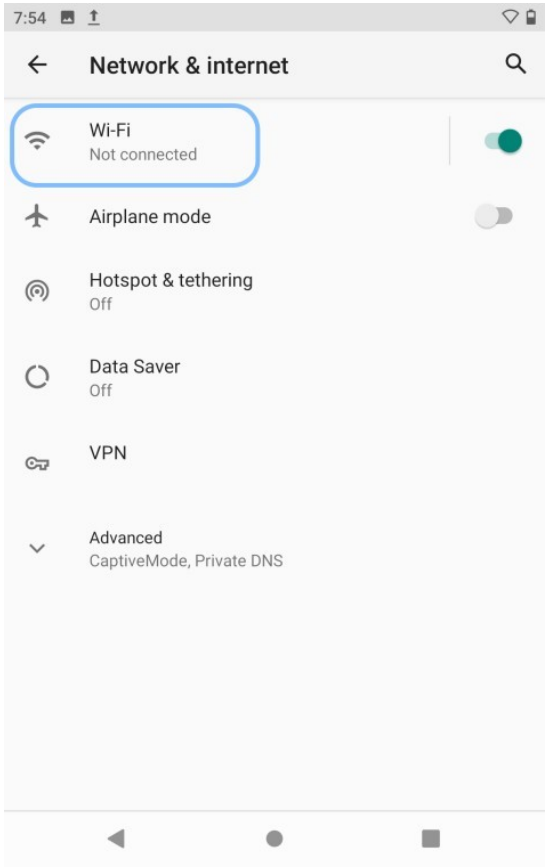
3. Toggle the on/off switch to turn Wi-Fi on.



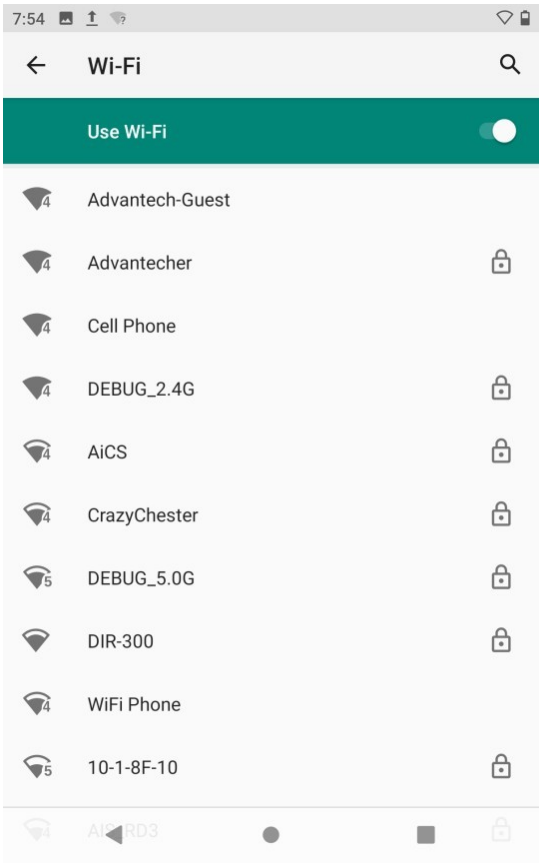
When Wi-Fi is first turned on, your device will automatically scan for available networks and display them in a list.

Secured networks are indicated with a lock icon.

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



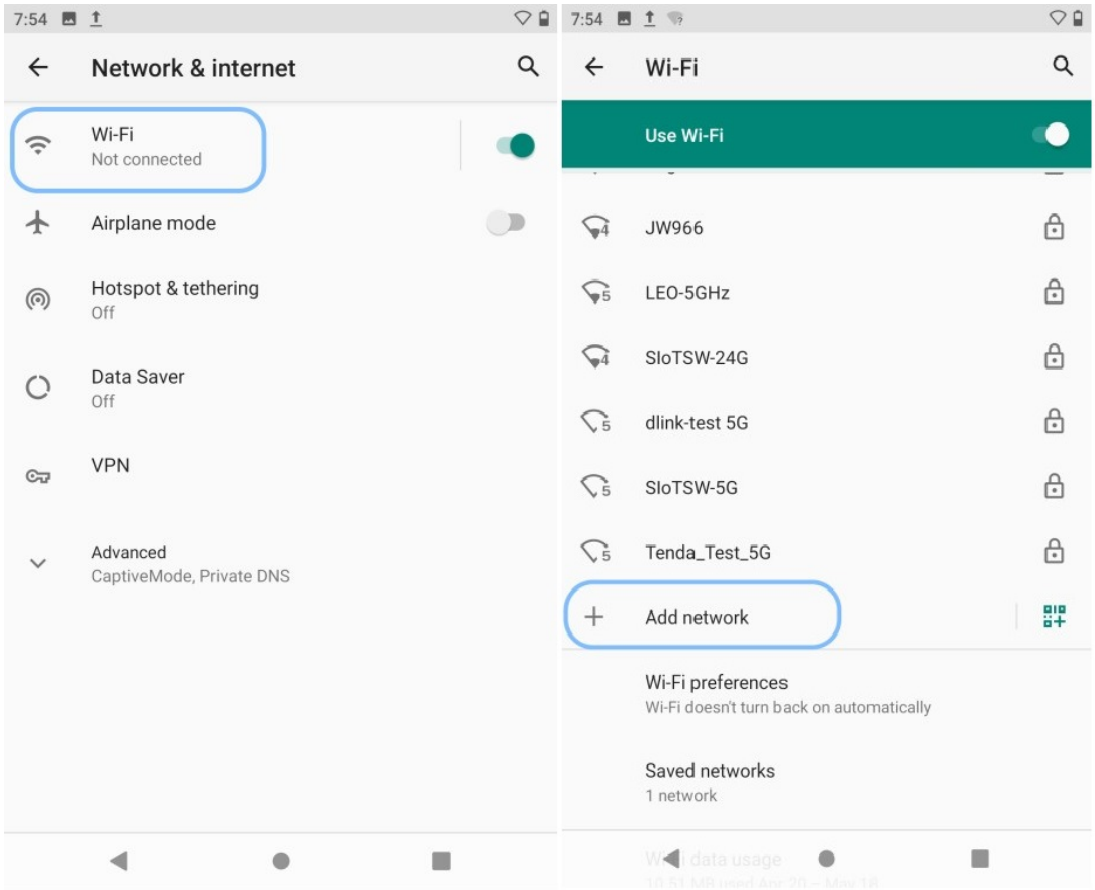
4. Select the network you want to connect to.
   If the network is open, simply click on it to connect your device.
   If the network is secure, you will be prompted to enter a password or other credentials to connect.



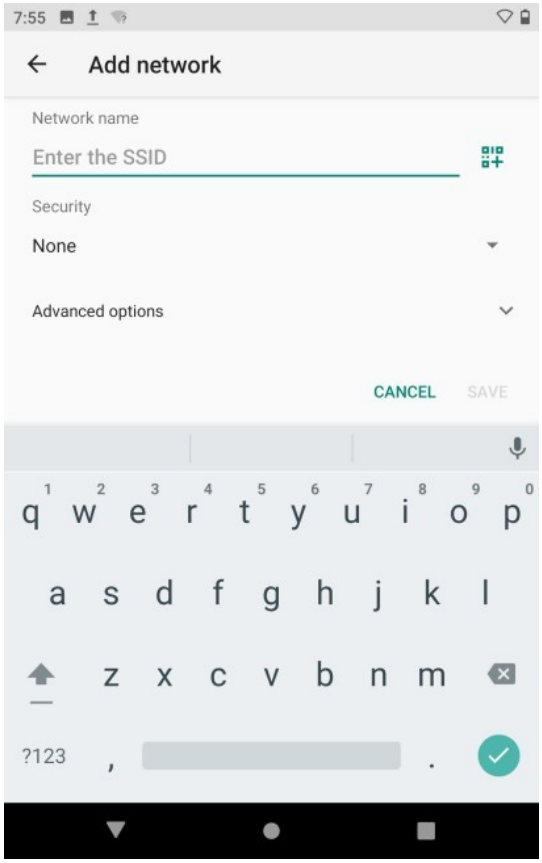
3.2 Add Wi-Fi Network

Users can also manually add a Wi-Fi network.

1. Toggle the on/off switch to turn Wi-Fi on.
2. Tap the Add network option at the bottom of the list of detected networks.



3. Input the SSID (name) of the network.
   If the network is secured, click the Security option and select the type of security deployed on the network.

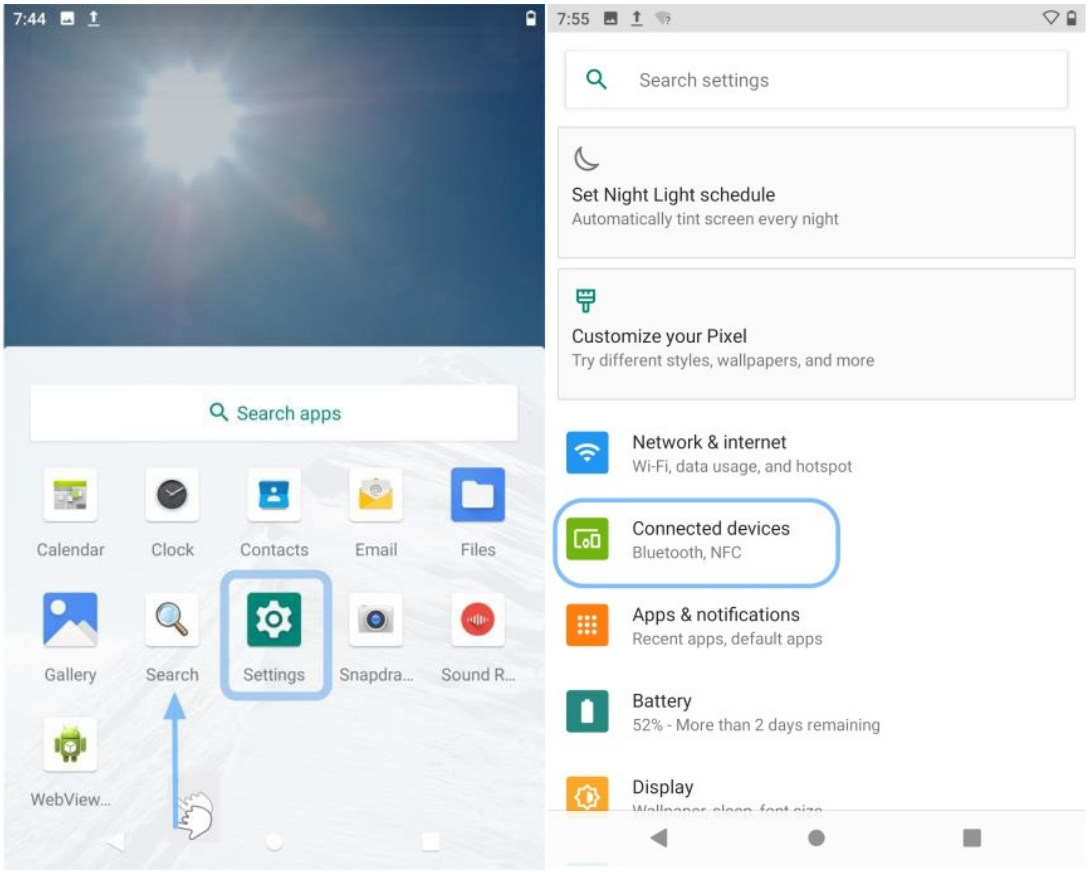


4. Enter any required security credentials and click SAVE.

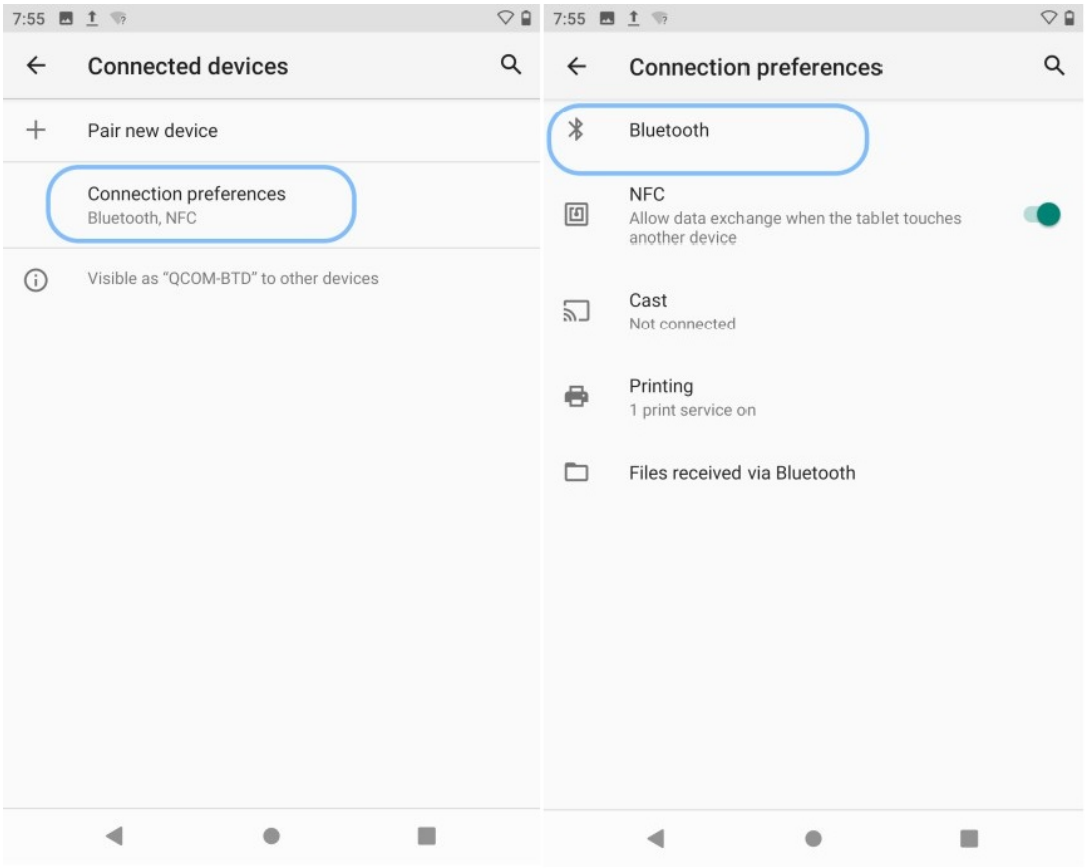
3.3 Bluetooth

3.3.1 Enable/Disable Bluetooth

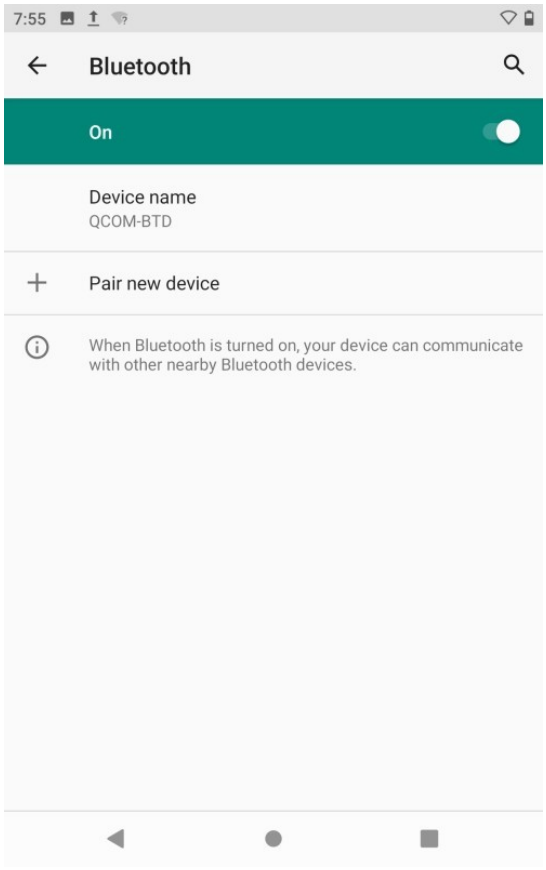
1. Swipe up from the bottom of the Home screen.
2. Tap the **Settings** icon and click on the **Connected devices** option .



3. Click on **Connection preferences** and tap **Bluetooth**.

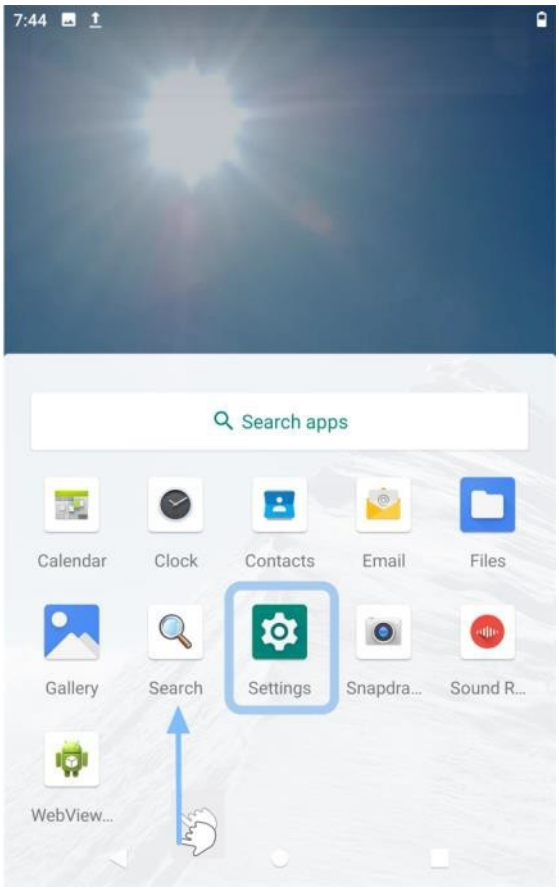


4. Toggle the on/off switch to turn Bluetooth on.

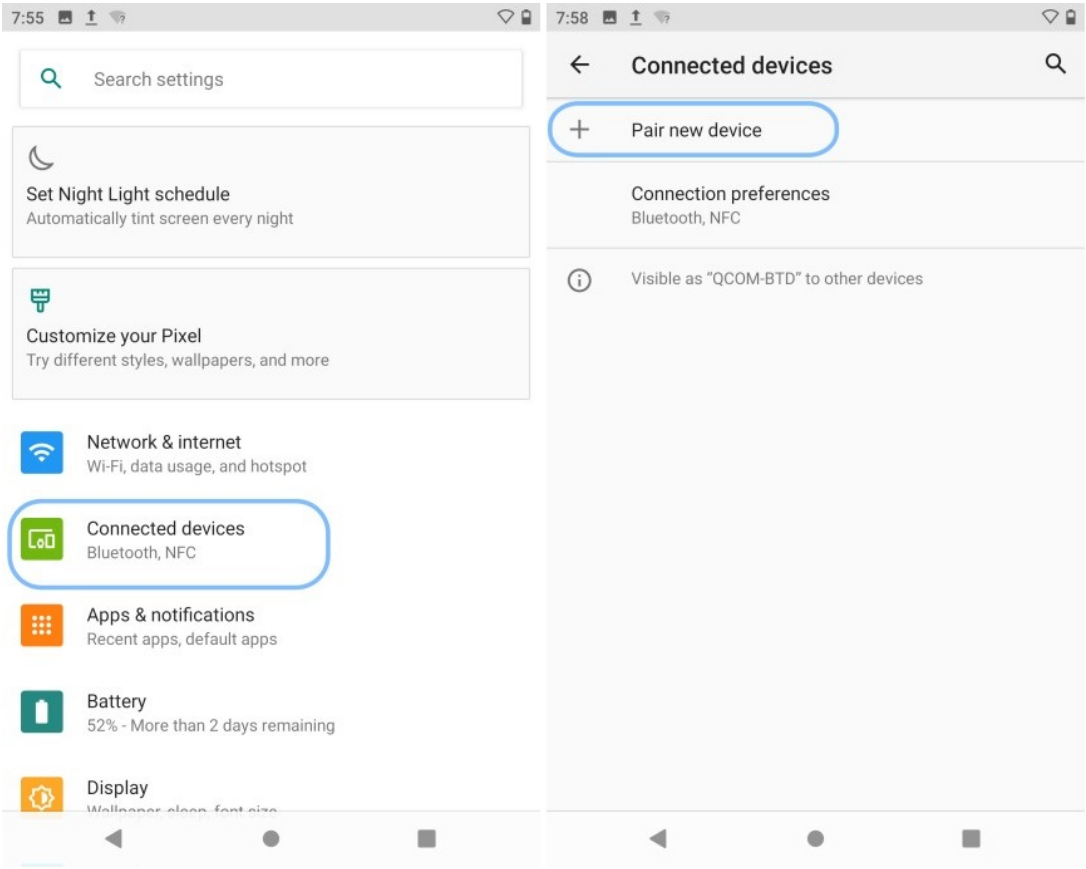


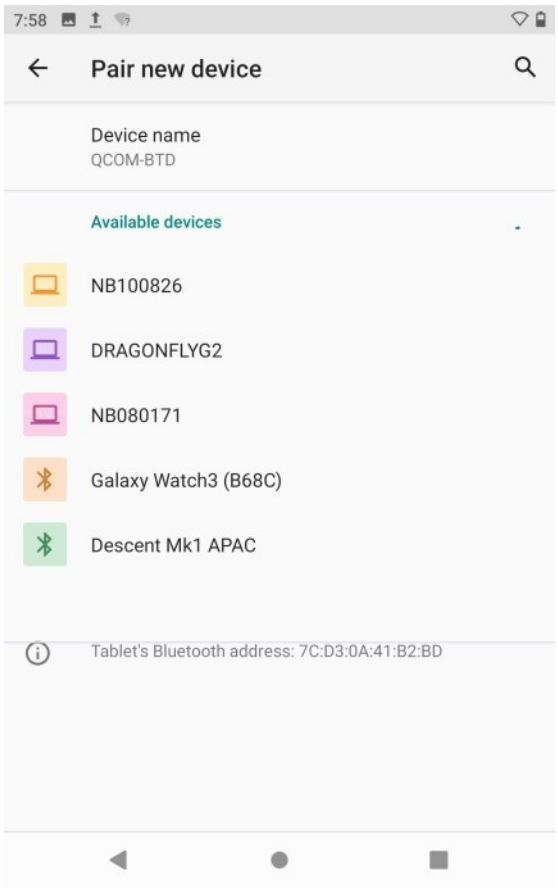
3.3.2 Pair a Bluetooth Device

1. Swipe up from the bottom of the Home screen and tap the **Settings** icon .



2. Click on **Connection preferences** and tap **Pair new device**. The system will automatically scan and display all available Bluetooth devices in range.

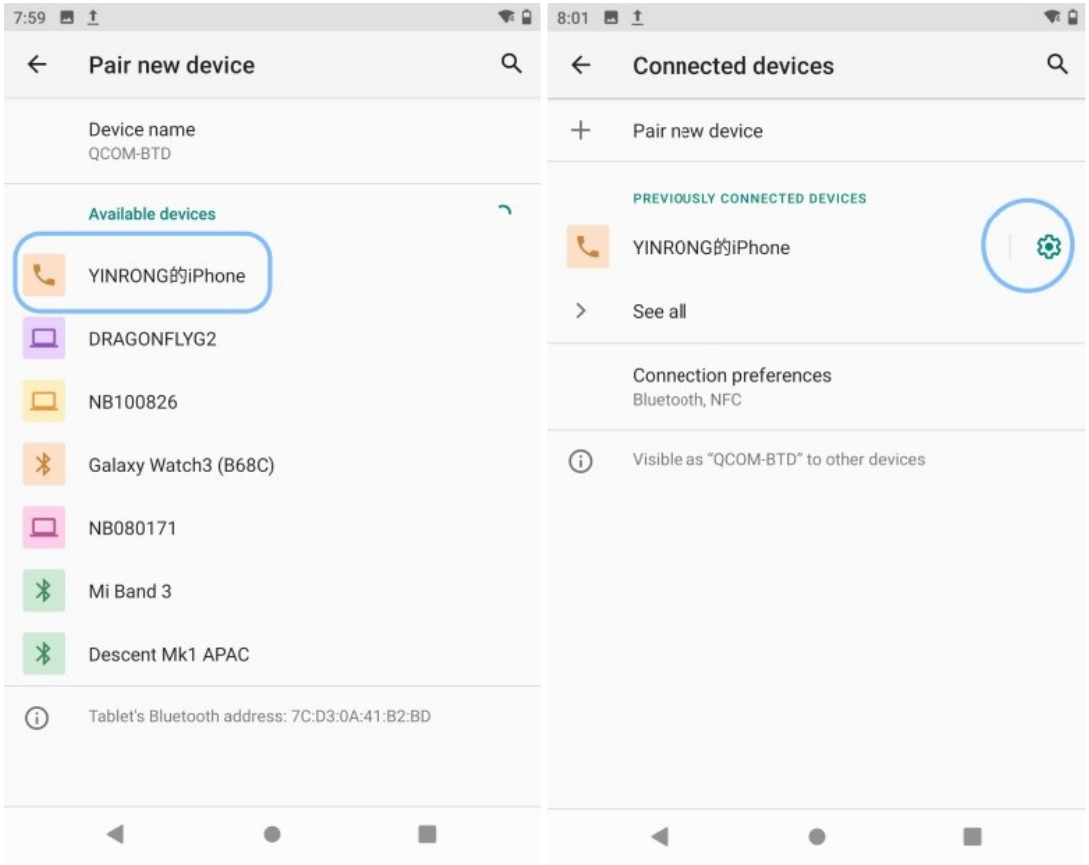




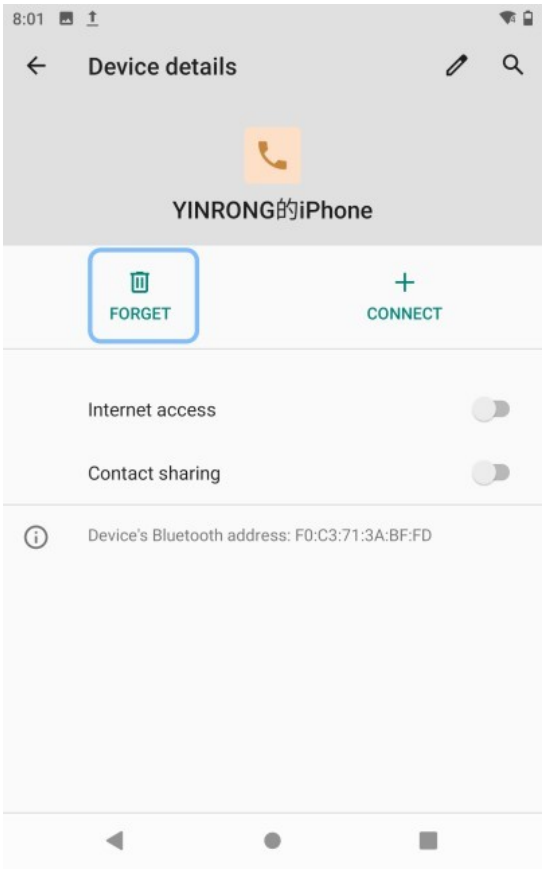
3.3.3 Disconnect a Paired Device

1. In the list of available Bluetooth devices in range, select the paired device to be disconnected.

2. Tap the **Settings** icon at the right.



3. Select the device to be paired.



3.4 Location Services

Certain apps, such as Google Maps, may require GPS location services to be enabled for full functionality.

1. Swipe up from the bottom of the Home screen.
2. Tap the **Settings** icon and click **Location**.
3. To enable the **Use location** setting, toggle the on/off switch to turn on GPS.

Note: Ensure that your location is in a GPS satellite coverage area and that there are no obstructions by moving the device outdoors or closer to a window. Additionally, check your surroundings for any devices that may cause interference, such as mobile phones and microwaves, and position yourself away from these devices.

3.5 Wireless Transmission

AIM-78H is designed and manufactured in accordance with the Radio Equipment Directive 2014/53/EU. The device contains an IEEE 802.11 a/b/g/n/ac/k/v/r wireless LAN transmitter that operates on the 2.412 ~ 2.484 GHz & 5.18 ~ 5.825 GHz band. Further transmitter power information is provided below.

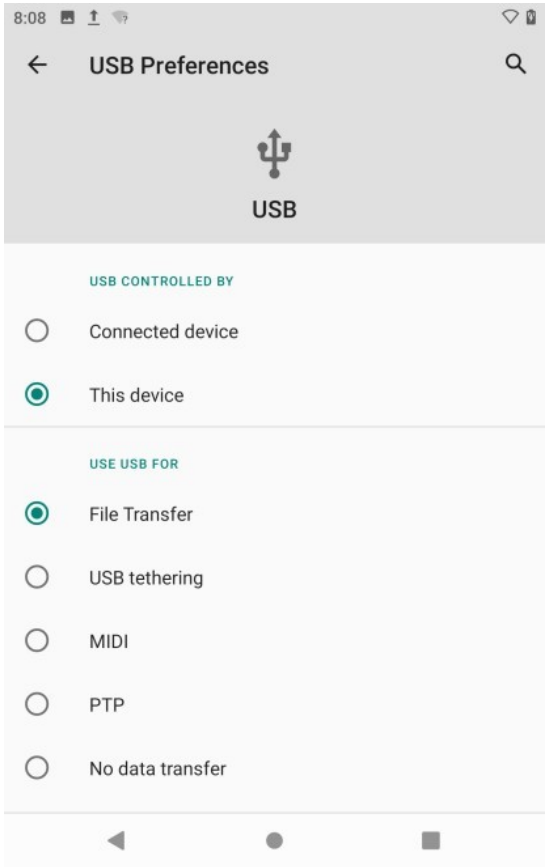
Chapter 4

USB Connections

Caution! *When integrating your tablet with a computer or external storage device, follow the instructions for connecting and disconnecting via USB to avoid file corruption and data loss.*

4.1 Connect External Devices

1. Swipe down from the status bar at the top of the Home screen to access the notification panel.
2. Tap "**USB debugging connected**" at the bottom of the notification panel.
3. Then input **USB Preferences** in the search block.
4. In the **USB Preferences** menu, configure the USB connection.
   - File transfer: Transfer files between your device and external devices
   - USB tethering: Share Wi-Fi from your device with external devices via a USB cable
   - MIDI: Set USB to function as MIDI input for musical applications
   - PTP: Set USB to use the Picture Transfer Protocol (PTP) to transfer media files if Media Transfer Protocol (MTP) is not supported
   - No data transfer: Disable data transfers

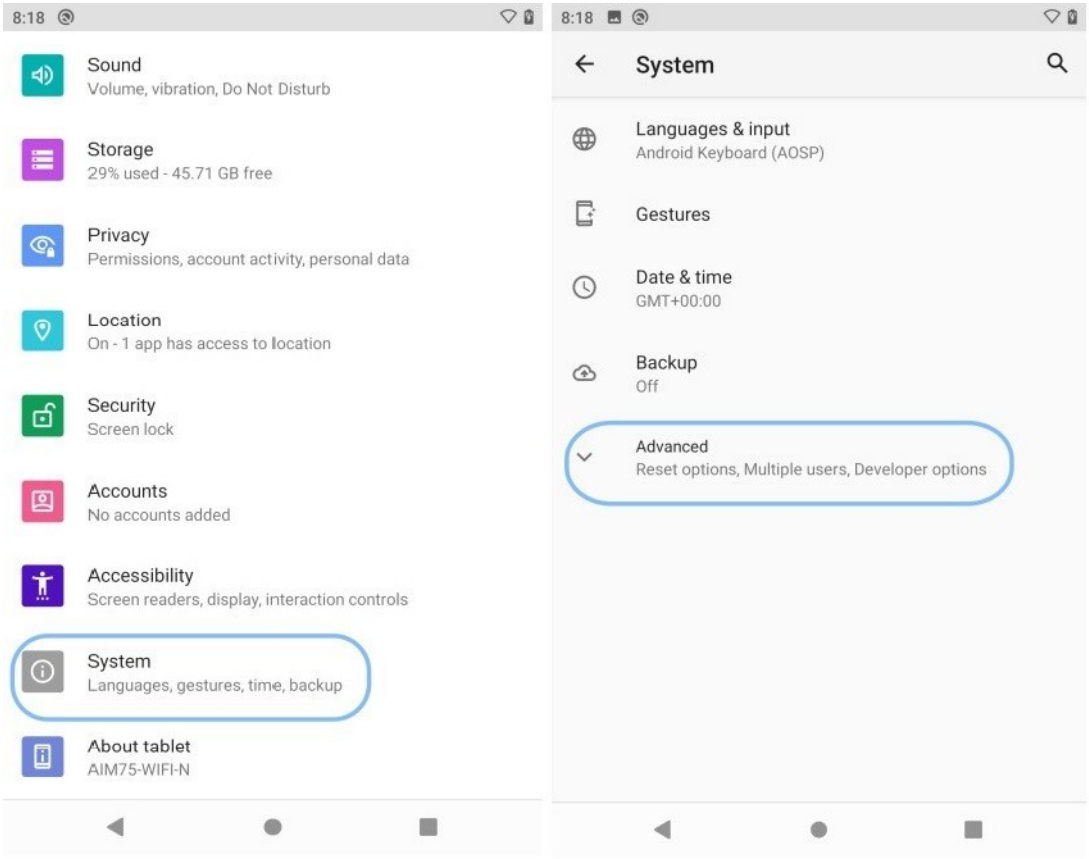


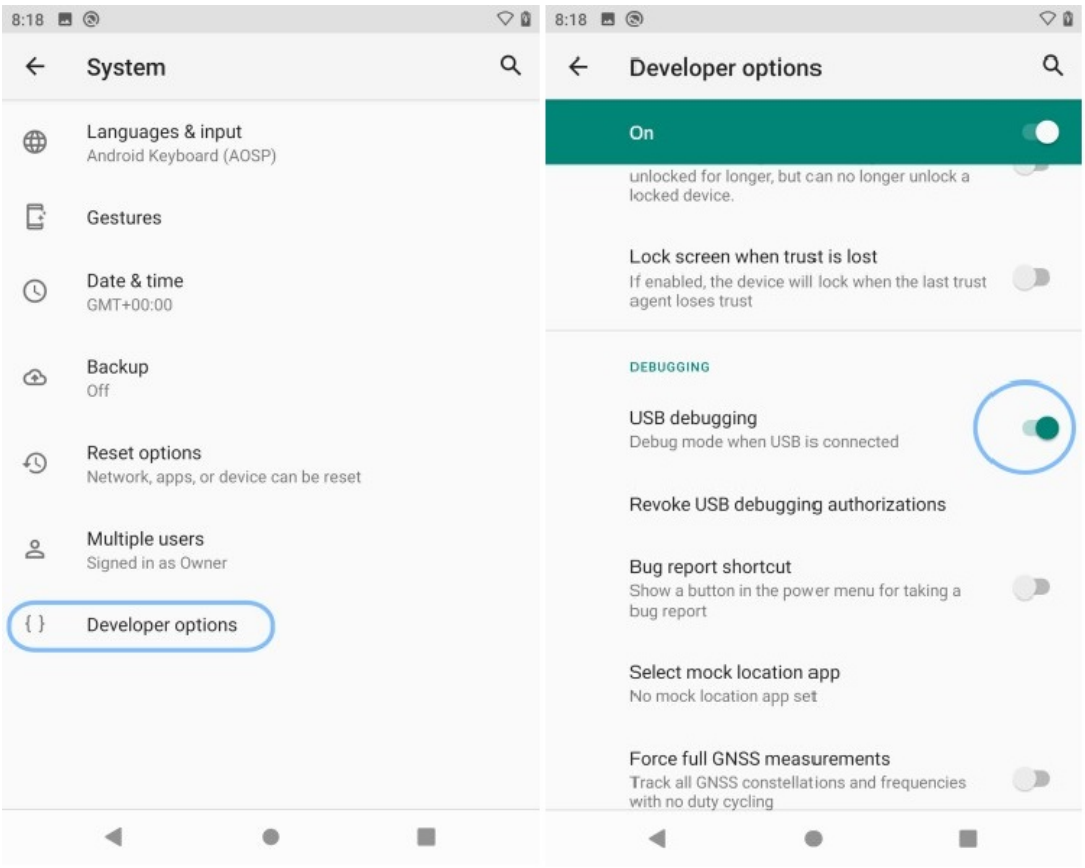
4.2 USB Debugging

USB debugging allows an Android device to communicate with a computer that is running the Android SDK in order to use advanced operations. When a device is in USB debugging mode, the connected computer can read all data, run commands, and install or remove apps.

4.2.1 Enable USB Debugging

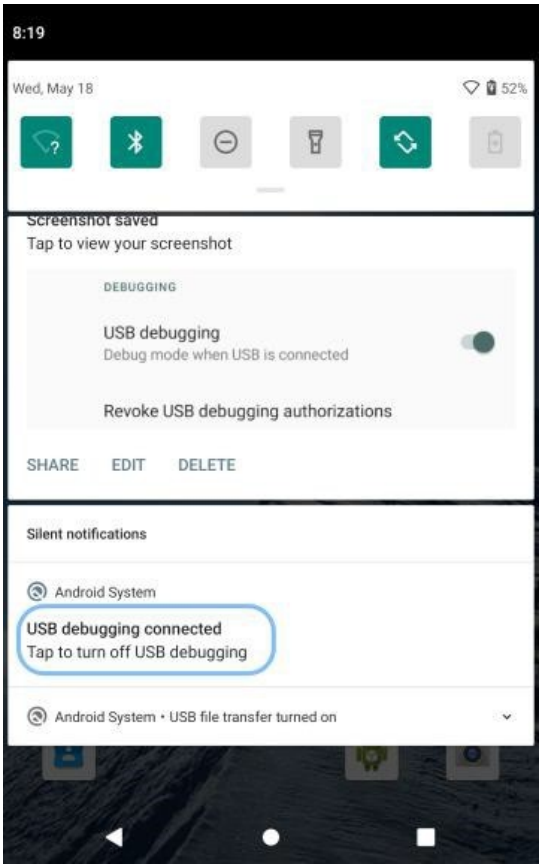
1. Connect your device to a computer via a USB cable.
2. Swipe up from the bottom of the Home screen.
3. Tap the **Settings** icon and click **About phone**.
4. Enable developer options by tapping the **Build number** option 7 times.
5. Return to the main Settings page and click on **System**.
6. Tap **Advanced** and click on **Developer options.**
7. To enable the **USB debugging** option, toggle the on/off switch.




8:18
System
Languages & input
Android Keyboard (AOSP)
Gestures
Date & time
GMT+00:00
Backup
Off
Reset options
Network, apps, or device can be reset
Multiple users
Signed in as Owner
Developer options
8:18
Developer options
On
unlocked for longer, but can no longer unlock a locked device.
Lock screen when trust is lost
If enabled, the device will lock when the last trust agent loses trust
DEBUGGING
USB debugging
Debug mode when USB is connected
Revoke USB debugging authorizations
Bug report shortcut
Show a button in the power menu for taking a bug report
Select mock location app
No mock location app set
Force full GNSS measurements
Track all GNSS constellations and frequencies with no duty cycling

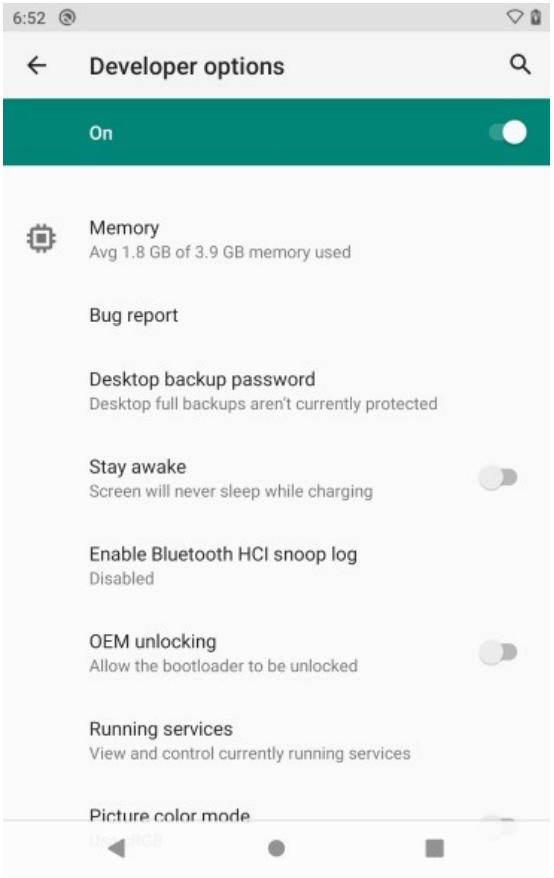
4.2.2 Turn Off USB Debugging

1. Swipe down from the status bar at the top of the Home screen to access the notification panel.
2. On the “USB debugging connected” notification, tap to turn off USB debugging.



4.3 Developer Options

The **Developer options** menu features a variety of advanced functions. Users can enable/disable these functions by toggling the on/off switches.



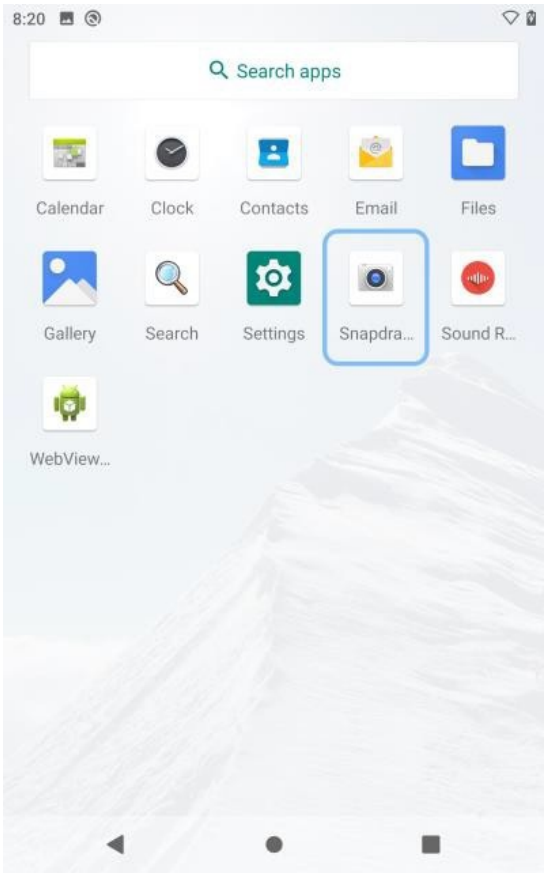
Chapter 5

Camera Functions

5.1 Access Camera

The built-in camera can be used to take photos and record videos.

1. Swipe up from the bottom of the Home screen.
2. Tap the **Camera** icon . The camera opens in portrait mode by default.



5.2 Take Photos

1. Tap the on-screen **Camera** icon .

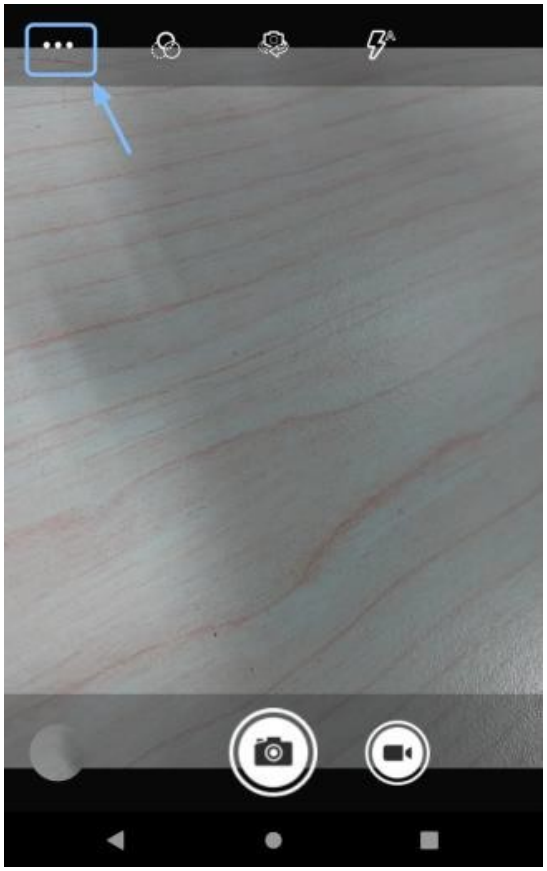


2. The camera automatically brings the image into focus. When the image is in focus, the focus indicators will turn green.

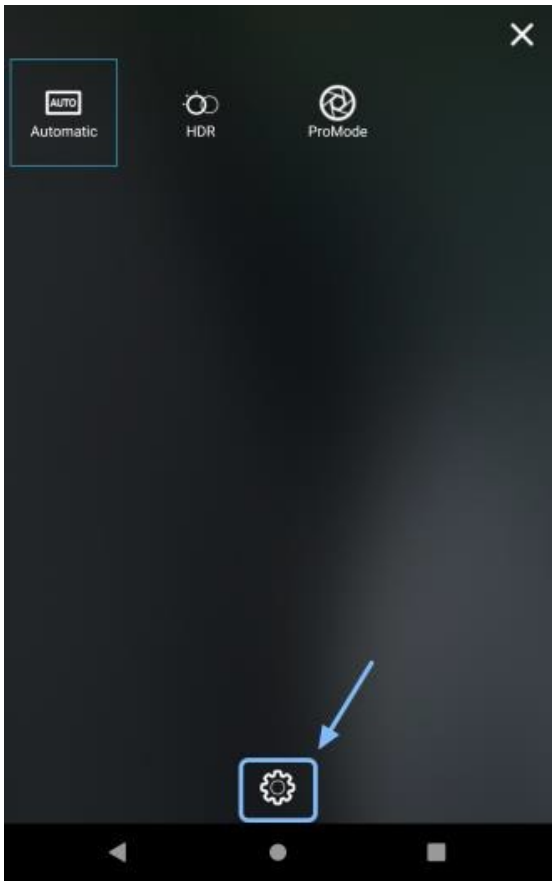


5.3 Adjust Camera Settings

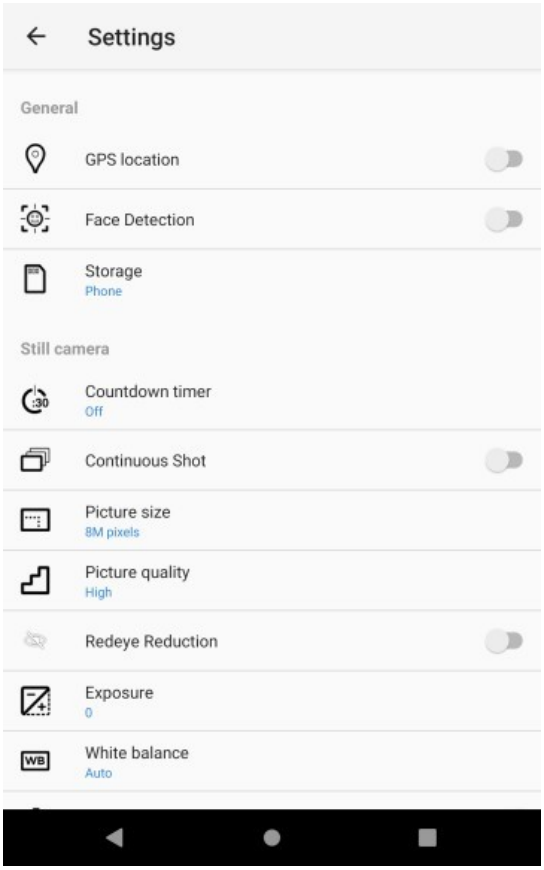
1. Tap the on-screen **Menu** icon .



2. Then tap the on-screen Settings icon .



3. Adjust the exposure, flash, and other settings by toggling the on/off switches and setting specific values.



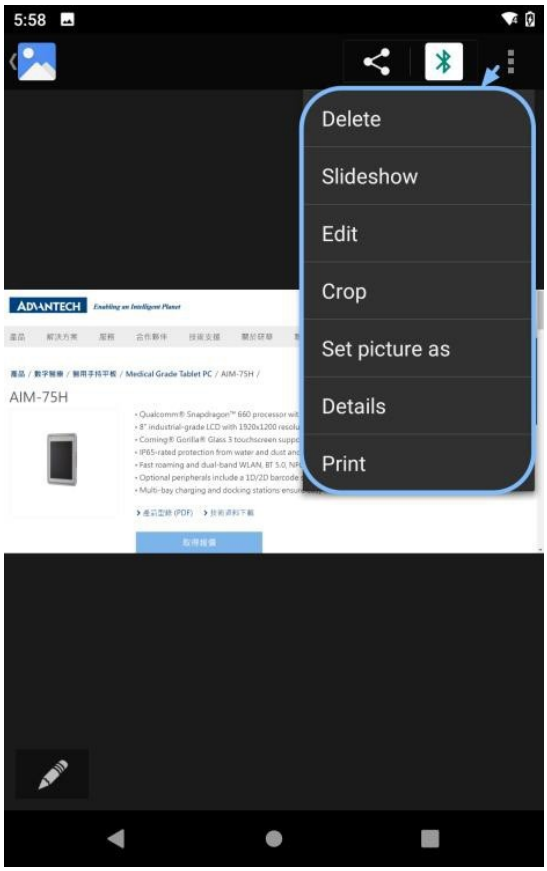
5.4 View Photos

1. After a photo is captured, a thumbnail preview is shown on the left corner of the capture screen. Tap the thumbnail to view the photo.



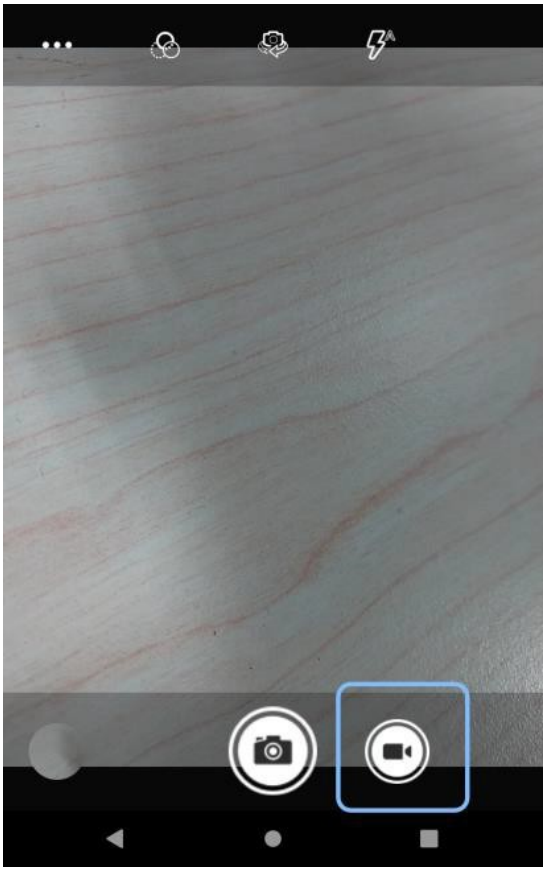
5.5 Share Photos

1. Tap the on-screen **Share** icons and then tap for Bluetooth.
2. In the **Bluetooth** menu, select the device you want to share the photo with.
3. Tap the on-screen **Menu** icon for more camera options.



5.6 Capture Videos

1. Swipe up from the bottom of the Home screen.
2. Tap the Camera icon .
3. Tap the **Video** icon at the bottom right of the capture screen to record video.



4. Tap the icon to stop recording.

5.7 Gallery

Access the gallery to view, edit, and manage photos and videos.

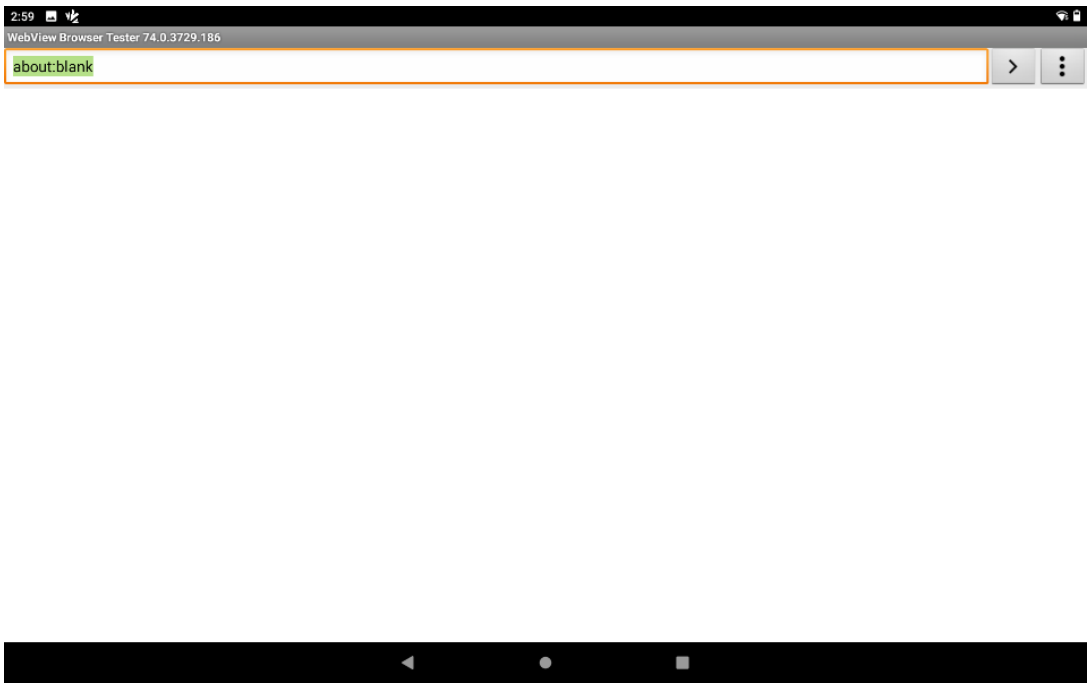
1. Swipe up from the bottom of the Home screen.
2. Click on the Gallery icon.
3. Select a folder to view photos or videos in full-screen mode.
4. Use a finger to swipe left and right across the screen to scroll through photos and videos.

Chapter 6

Integrated Barcode / QR Code Scanner

6.1 How to Scan Barcodes / QR Codes with an Android Tablet

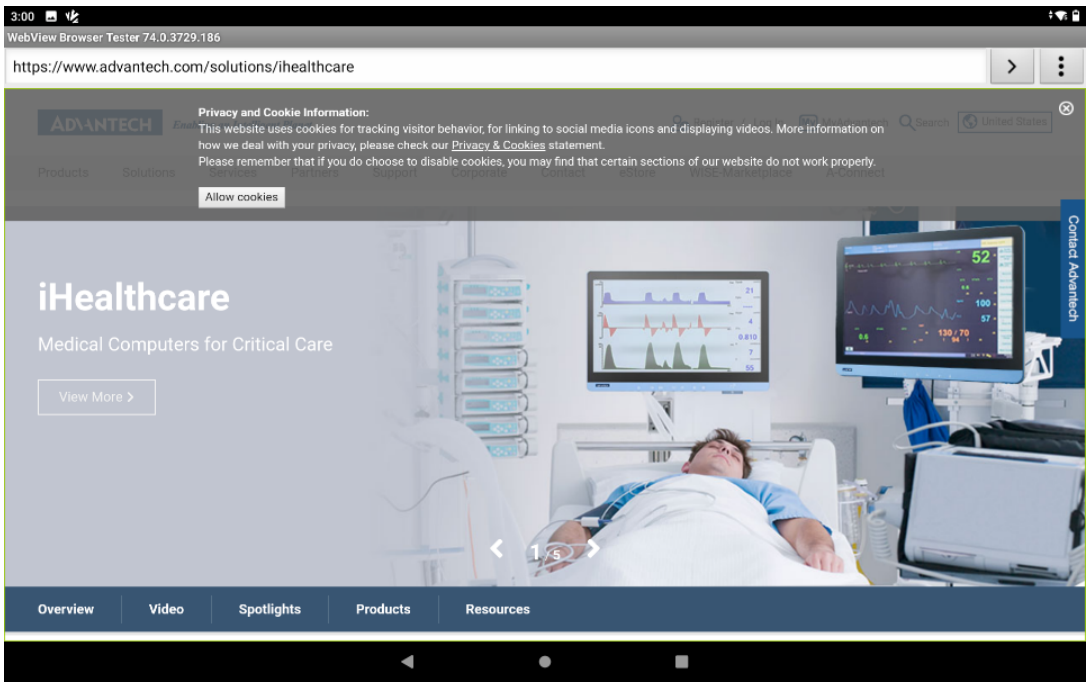
1. Open Webview Browser Tester first.



2. Press the programmable function key and then point your tablet at a barcode / QR code to scan it.



3. This will immediately send you to a website, open an app, or perform another action.



Note! *The barcode / QR code scanner may be embedded in the product according to your request.*

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