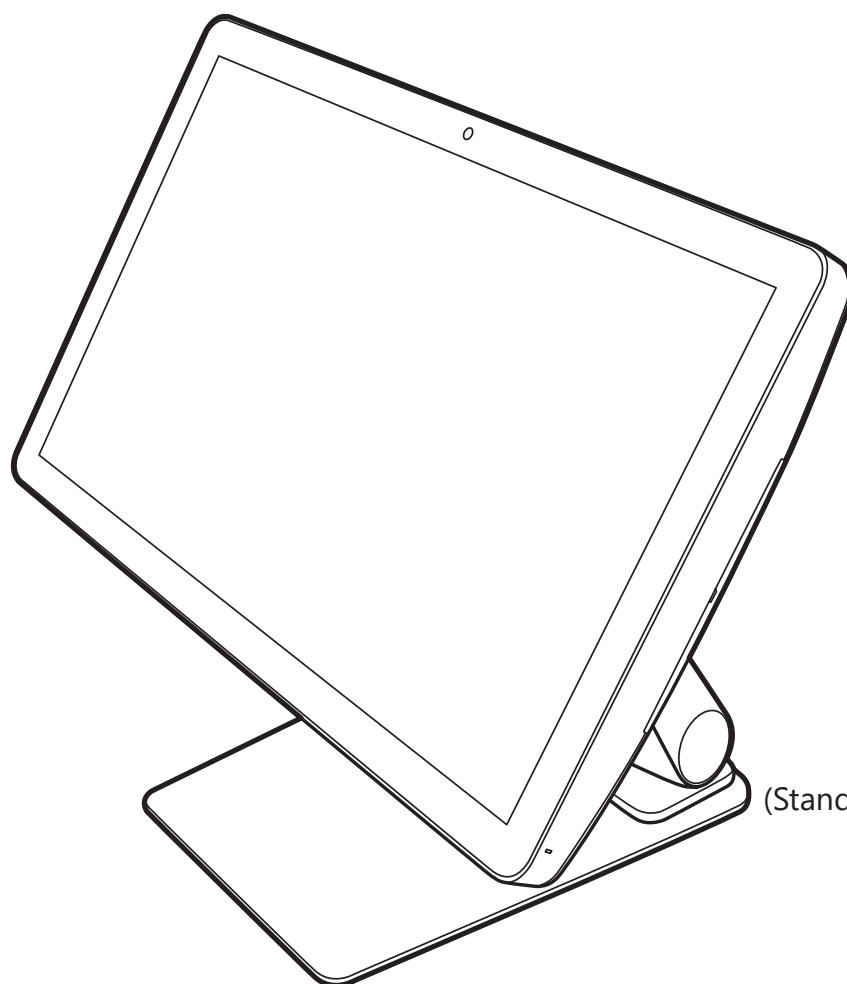


USER MANUAL

Microtouch All-In-One PC

M1-215IC-AB2



(Stand is optional)

Introduction

About this document

No part of this publication may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, including, but not limited to, electronic, magnetic, optical, chemical, manual, or otherwise without prior written permission of Microtouch.

The information in this document is subject to change without notice. Microtouch makes no representations or warranties with respect to the contents herein, and specifically disclaims any implied warranties of merchantability or fitness for a particular purpose. Microtouch reserves the right to revise this publication and to make changes from time to time in the content hereof without obligation of Microtouch to notify any person of such revisions or changes. Other brand or product names are trademarks of their respective holders.

Conventions

The following subsections describe graphic conventions are used in this manual to denote certain actions or information for clarification purposes. Keep these points in mind to avoid problems with the device or injuries:

**TIP:**

A TIP highlights helpful shortcuts and guidelines for installation, use, maintenance.

**NOTE:**

A NOTE indicates supplementary information or important text for installation, use, maintenance.

**CAUTION:**

A CAUTION alerts that may cause injuries or malfunctions of the device.

**MISE EN GARDE:**

Une MISE EN GARDE avertit du risque de blessures ou de dysfonctionnement de l'appareil.

**WARNING:**

A WARNING appears when there are potential risks of serious physical harm or death.

**AVERTISSEMENT:**

Un AVERTISSEMENT apparaît lorsqu'il y a des risques potentiels de dommages graves ou de blessures mortelles.

Table of contents

Introduction.....	2
Table of contents.....	3
Safety and regulatory information	6
Safety.....	6
Installation	8
Use	9
Regulatory compliance	10
For FCC (USA)	10
For IC (Canada)	10
For CE (EU)	10
For UL/cUL (USA/Canada).....	10
UL 62368-1 / CSA-C22.2 NO. 62368-1	10
Disposal Information.....	13
Renseignements relatifs à la conformité.....	13
Pour la FCC (États-Unis)	13
Pour Industrie Canada.....	14
Pour la CE (UE).....	14
Informations sur l'élimination	14
General information	15
Package content	15
Unpacking	15
Accessories	15
Product overview	16
Front view.....	16
Rear view	17
Setup and installation.....	19
Replacing the stand	19
Removing the stand	19
Installing the stand	21
Routing the power cable	23
Adjusting the viewing angle.....	25
Wall mounting	26

Preparing for the installation and removal of the optional accessories.....	26
Removing the peripheral compartment cover	27
Installing the peripheral compartment cover	27
Barcode scanner (optional).....	28
Installing the barcode scanner.....	28
Removing the barcode scanner.....	30
Camera module (optional).....	31
Installing the camera module.....	31
Removing the camera module.....	33
Light bar (optional).....	34
Installing the light bar	34
Removing the light bar	35
Magnetic stripe reader (MSR) module (optional).....	36
Installing the MSR module.....	36
Removing the MSR module.....	37
Finger Printer (FPR) module (optional)	38
Installing the FPR module.....	38
Removing the FPR module.....	39
Using the device	40
Getting started with Android	40
Home screen overview.....	41
Lock screen overview.....	43
Status bar	44
Accessing apps.....	45
Customizing the Home screen	45
Configuring system settings	47
Settings menu	47
Network & internet	48
Sound & vibration	49
Display	50
Security.....	51
System settings.....	52
About the device.....	53
Using the apps.....	55
Camera app.....	55

Files app.....	56
Downloading apps.....	58
Appendix.....	59
Device specification.....	59
Peripherals specification.....	62
MSR module	62
Camera module	63
Barcode scanner	63
Light bar.....	64
Finger Printer	65
Dimensions	66
M1-215IC-AB2.....	66
Troubleshooting	67
Maintenance	68
Cleaning	68

Safety and regulatory information

Safety

**WARNING:**

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

**AVERTISSEMENT:**

Pour éviter tout risque d'électrocution, cet équipement ne doit être connecté qu'à un réseau d'alimentation doté d'une fonction de mise à la terre.

**WARNING:**

To prevent the risk of fire or shock hazards, and do not expose the product to moisture.

**AVERTISSEMENT:**

Pour réduire le risque d'incendie ou d'électrocution, faites attention à ne pas exposer l'appareil à l'humidité.

**NOTE:**

For your safety, connect this device to a properly grounded electrical outlet only.

**REMARQUE:**

Pour votre sécurité, connectez cet appareil uniquement à une prise électrique correctement mise à la terre.

**CAUTION: Lithium-Ion Battery caution**

Danger of explosion if battery is incorrectly replaced.

*Replace only with the same or equivalent type recommended by the manufacturer.
Dispose of used batteries according to the manufacturer's instruction.*

**MISE EN GARDE: Avertissement concernant la batterie au lithium-ion**

Danger d'explosion si la pile n'est pas remplacée correctement.

Remplacez uniquement par le même type ou un type équivalent recommandé par le fabricant. Jetez les piles usagées conformément aux instructions du fabricant.

General recommendations

- Read the safety and operating instructions before operating the device.
- Retain safety and operating instructions for future reference.
- Adhere to all warnings on the device and in the operating instructions manual.
- Follow all instructions for operation and use.

Electrical shock or fire hazard

- Do not expose this device to rain or moisture.

Modifications to the unit

- Do not modify this equipment without authorization of the manufacturer.
- If there is any other problem, please consult or return the device to your distributor. Do not try to repair a defective device.

Preventive maintenance

With the device disconnected from mains perform the following periodical check:

- Check the integrity of the adapter and power cord. Inspect the routing, so that it is not under the risk of being punched or cut.
- Check the integrity of the Protective Earth connection.
- Clean the area around the power plug, dust and liquids may result in fire.
- Clean the ventilation slot of the device, dust can obstruct the air flow and cause temperature increase of the electronics.

Additional recommendations:

- Keep the device clean to prolong its operational lifetime.
- Periodically check that it is correctly operating Periodically check the tightness of the VESA mount screws. If not sufficiently tight, the device may detach from the arm, which may result in injury or equipment damage.

Mission critical applications

We strongly recommend there is a replacement device immediately available in mission critical applications.

Transient over-voltage

To fully disengage the power to the device, please disconnect the adapter from the AC inlet.

Liquids and moisture

- Never expose the device to liquids or moisture.
- Never use the device near water - e.g. near a bathtub, washbasin, swimming pool, kitchen sink, laundry tub or in a wet basement.
- Front panels of all models are IP65 compliant.
- The glass surface is fully cleanable.

Moisture condensation

- Do not use the device under rapid temperature and humidity change condition or avoid cold air from air- conditioning outlet directly.
- Moisture may condense on the surface or inside of the unit, or create a mist residue inside the protection plate, this is not a malfunction of the product itself, although it may cause damage to the device.
- If condensation happens, let the device stand unplugged until there is no condensation.

Ventilation

Do not cover or block any ventilation openings in the cover of the set. When installing the device in a cupboard or another enclosed location, keep the necessary space between the set and the sides of the cupboard.

Installation

- Place the device on a flat, solid and stable surface that can support the weight of at least 3 devices. If you use an unstable cart or stand, the device may fall, causing serious injury to a child or adult, and serious damage to the device.
- All device and complete setup must be tested and validated before taking into operation.
- At end user application level it is necessary to foresee a backup unit in case the video falls away.
- Do not install in a high-temperature or high-humidity environment and should not exceed:
 - Operating temperature: 0°C to 40°C (0°F to 104°F) ; Humidity: 20% ~ 80% RH.
 - Transport / Storage temperature: -20°C to 60°C (-4°F to 140°F); Humidity: 10% ~ 90% RH.

Use

General:

- The enclosure has to be checked upon collision damage, refer to qualified service personnel.
- The protective screen (if present) is made of tested high-resistance glass. Nonetheless there is the possibility that it may crack if subject to strong impacts. Evaluate and prevent the risk of possible breakages of the protective screen by correctly handling and positioning the device.
- The device is intended for indoor use.

Malfunctions:

- Disconnect the equipment's power cord from the AC inlet and refer servicing to qualified service technicians under the following conditions:
 - If the power cord, plug, or adapter is damaged or frayed.
 - If liquid has been spilled into the equipment.
 - If the equipment has been exposed to rain or water.
 - If the equipment does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
 - If the equipment has been dropped or the cabinet has been damaged.
 - If the product exhibits a distinct change in performance, indicating a need for service.

Regulatory compliance

For FCC (USA)

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

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

For IC (Canada)

CAN ICES-003(A)/NMB-003(A)

For CE (EU)

The device complies with the EMC Directive 2014/30/EU and Low Voltage Directive 2014/35/EU



WARNING:

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.



WARNING:

Il s'agit d'un produit de classe A. Dans un environnement domestique, cet appareil peut générer des interférences radio contre lesquelles l'utilisateur devra prendre les mesures adéquates.

For UL/cUL (USA/Canada)

UL 62368-1 / CSA-C22.2 NO. 62368-1

FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.

IC Caution:

This device complies with Innovation, Science and Economic Development Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) This device may not cause interference, and

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

To maintain compliance with RSS-102 RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.

5.2G WIFI use indoor only.

Cet appareil est conforme aux normes RSS exemptées de licence d'innovation, sciences et développement économique Canada.

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.

Pour être conforme aux lignes directrices d'exposition RF RSS-102, cet équipement doit être installé et exploité à une distance minimale de 20cm entre le radiateur et votre corps: n'utilisez que l'antenne fournie.

Wi-Fi 5.2 GHz : usage intérieur uniquement.

Disposal Information

Waste Electrical and Electronic Equipment



This symbol on the product indicates that, under the European Directive 2012/19/EU governing waste from electrical and electronic equipment, this product must not be disposed of with other municipal waste. Please dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

For more information about recycling of this product, please contact your local city office or your municipal waste disposal service.

Renseignements relatifs à la conformité

Pour la FCC (États-Unis)

Ce matériel a fait l'objet d'essais qui ont déterminé qu'il respectait les limites d'un appareil de classe B selon la partie 15 des règlements de la FCC. Ces limites sont établies pour assurer une protection raisonnable contre les parasites nuisant à une installation résidentielle. Ce matériel génère, utilise et peut émettre des ondes radio électriques, et lorsqu'il n'est pas installé et utilisé selon les instructions, peut causer des parasites nuisant aux communications radio. Il n'y a toutefois aucune garantie qu'il n'y aura pas de parasites dans une installation en particulier. Si ce matériel cause des parasites à la réception d'ondes radio ou de télévision, ce qui peut être déterminé en l'éteignant et en l'allumant, l'utilisateur est invité à essayer de corriger le problème des parasites par l'une ou l'autre des mesures suivantes:

- Réorienter ou déplacer l'antenne de réception.
- Augmenter la distance entre le matériel et la réception.
- Brancher le matériel dans une prise sur un autre circuit que celui où le récepteur est branché.
- Consulter le distributeur ou un technicien radio ou TV expérimenté pour des conseils.

L'appareil respecte la partie 15 des règlements de la FCC. Le fonctionnement doit respecter les deux conditions suivantes:

- 1) cet appareil ne doit pas causer de parasites et
- (2) cet appareil doit accepter tous les parasites reçus, notamment ceux pouvant causer un fonctionnement non voulu.

Pour Industrie Canada

Norme canadienne NMB-003(B)

Pour la CE (UE)

L'appareil respecte la directive 2014/30/UE relative à la compatibilité électromagnétique et la directive 2014/35/EU sur les limites de basse tension

Informations sur l'élimination

Déchets d'équipements électriques et électroniques



Ce symbole sur le produit indique que, conformément à la directive européenne 2012/19/UE régissant les déchets d'équipements électriques et électroniques, ce produit ne doit pas être jeté avec les autres déchets municipaux. Veuillez éliminer vos déchets d'équipement en les remettant à un point de collecte désigné pour le recyclage des déchets d'équipements électriques et électroniques. Pour éviter d'éventuels dommages à l'environnement ou à la santé humaine dus à une élimination incontrôlée des déchets, veuillez séparer ces articles des autres types de déchets et les recycler de manière responsable afin de promouvoir la réutilisation durable des ressources matérielles. Pour plus d'informations sur le recyclage de ce produit, veuillez contacter votre mairie ou votre service municipal d'élimination des déchets.

General information

In this section, you will find information on the package content and device's features.

Package content

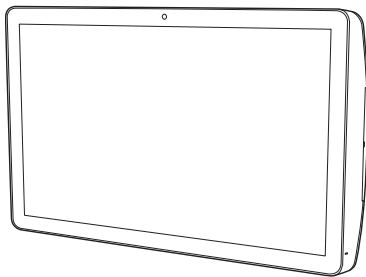
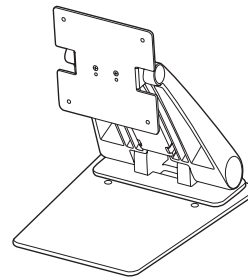
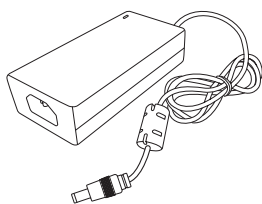
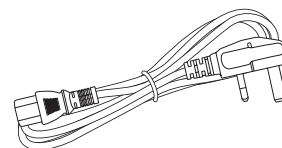
Unpacking

- Before unpacking your device, find a location near a wall outlet and be easily accessible.
- Set the device box in an upright position and open from the top of the box before removing the top cushions.
 - Step 1: Remove the package
 - Step 2: Take out the accessory box then remove the bottom cushions.
- We recommend to keep the box and packaging in storage for use in the future if need to transport the device.
- Carefully unpack and check you have all the items shown in the "Accessories" section.

**TIP:**

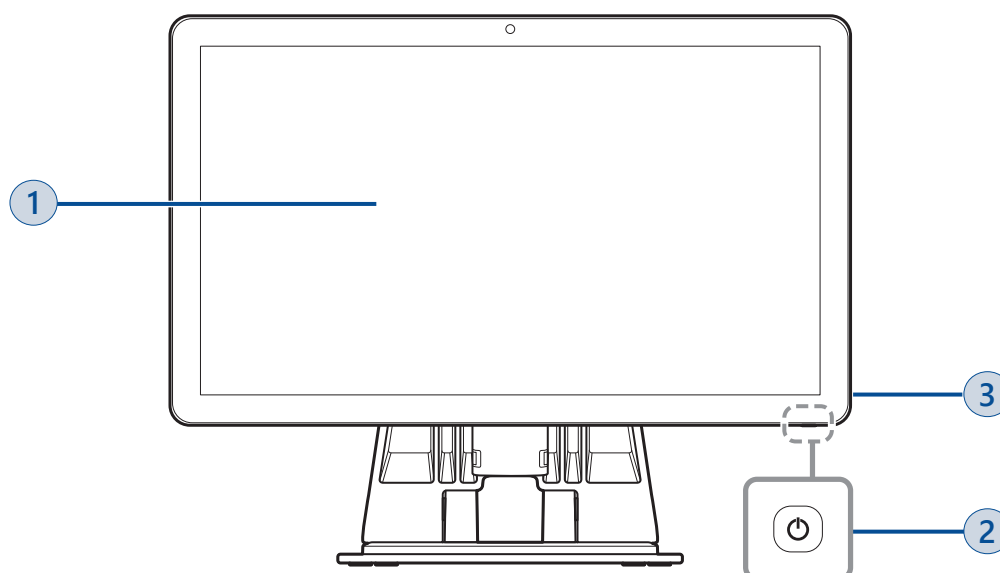
If any of the accessories is missing or damaged, please contact your distributor for more information.

Accessories

**AIO PC****Stand (optional)****Adapter****Regional specific power cables**

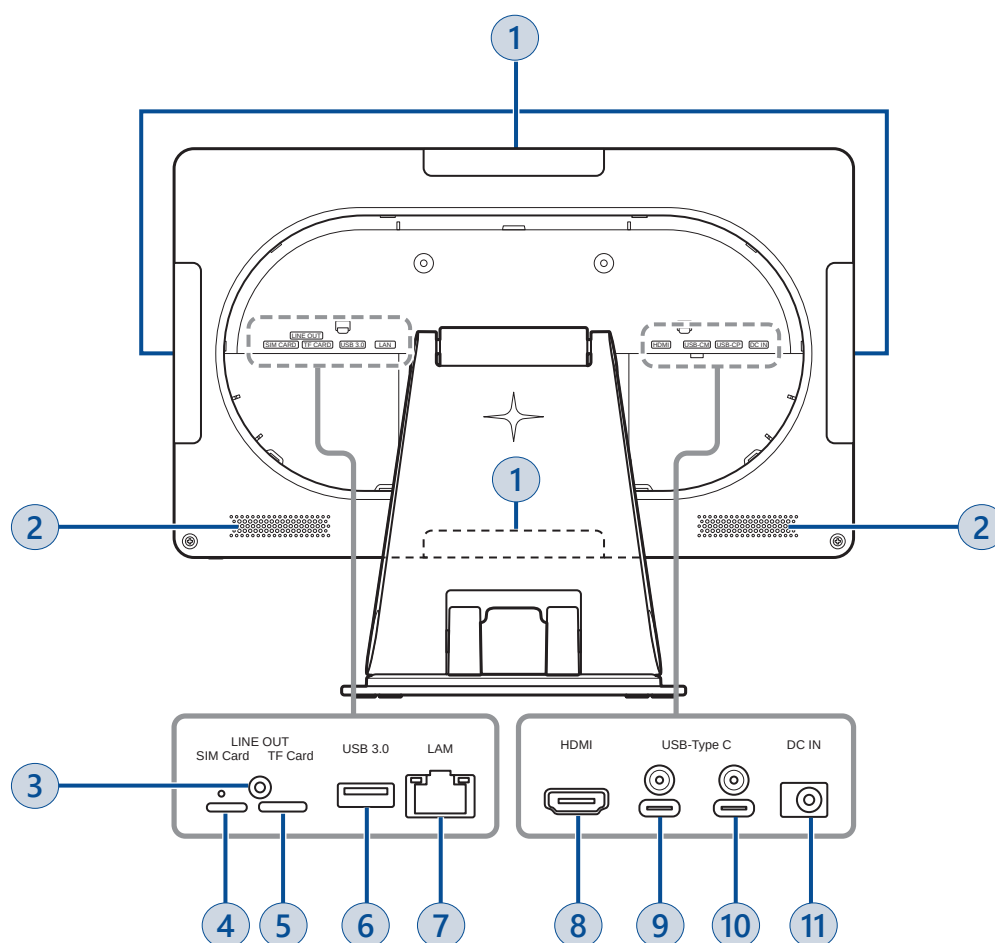
Product overview

Front view



#	Function	Description
①	Display screen	Display screen with multi-touch functionality.  NOTE: <i>This device supports finger/glove touch method.</i>
②	Power button	Press to power on/off the device.
③	Power LED	Device status indicator. • Solid green: Device is powered on. • Flashing green: Device is idle. Press the Power button to power on/off the device. • Off: Device is powered off.

Rear view



#	Function	Description
①	Compartments x4	Remove the peripheral compartment cover and install the optional accessory. For more information, refer to the "Setup and installation" chapter.
②	Speakers x2	Audio output (2W / dual-channel at 4Ω).
③	LINE OUT connector	Connect with audio line-out devices.
④	SIM card slot	Insert the SIM card to this slot.
⑤	TF card slot	Insert the TransFlash (TF) card to this slot.
⑥	USB 3.0 connectors	Connect with USB 3.0 compatible devices.
⑦	LAN connector	Connect the device to the Internet via RJ45 cable.
⑧	HDMI connector	Connect with HDMI compatible devices.
⑨	USB-CM connector	1 x USB3.0 Type-C (support USB2.0 OTG, 4lane DP-alt mode up to 4K@60Hz, PD 5V/12V@3A output).

#	Function	Description
10	USB-CP connector (Caution/Mise en garde*)	1 x USB3.0 Type-C (support USB3.0 HOST, PD 12V@5A input and 5V@2A output).
11	DC IN	Connect with the supplied power adapter.



NOTE:

Video output connectors: HDMI and USB-C DP, cannot be used at the same time, you need to restart the device after switching from one to the other.



CAUTION: (*)

To prevent any damage, use only power sources rated 12V/5A to charge your Notebook PC with the USB Power Delivery combo port.

DO NOT use power adapters or batteries from other devices to reduce the risk of injury to persons due to fire or explosion. Use only UL certified power adapters or batteries supplied by the manufacturer or authorized retailers.



MISE EN GARDE: (*)

Pour éviter tout dommage, utilisez uniquement des sources d'alimentation de 12 V/5 A pour charger votre ordinateur portable avec le port combo USB Power Delivery.

N'utilisez PAS d'adaptateurs secteur ou de piles provenant d'autres appareils pour réduire le risque de blessures corporelles dues à un incendie ou à une explosion. Utilisez uniquement des adaptateurs secteur ou des batteries certifiés UL fournis par le fabricant ou des détaillants agréés.

Setup and installation

In this section, you will find information on how to remove and install the stand, adjust the viewing angle, wall mount the device, and more.

Replacing the stand

**NOTE:**

The stand is pre-installed to the device.

Removing the stand

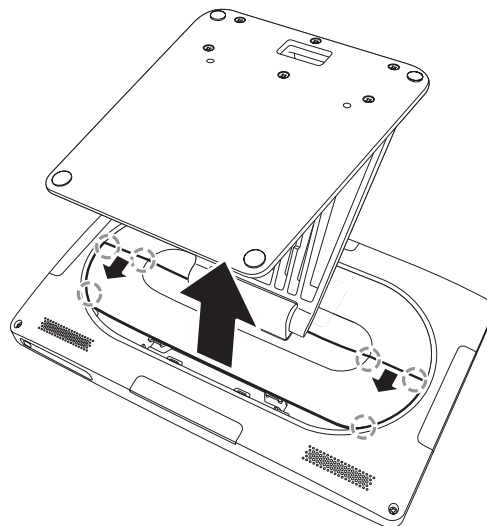
To remove the stand, do the following:

1. Place the device on a flat surface, with the screen facing down.

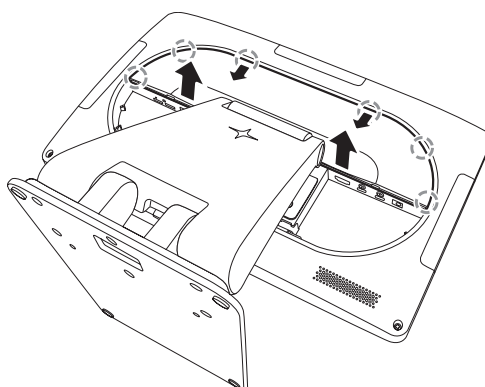
**NOTE:**

We recommend to cover the surface with soft cloth to prevent damage to the monitor.

2. Pry to release the lower cable cover latches (marked with gray circles) and then remove the cover from the device.



3. Pry to release the upper cable cover latches (marked with gray circles).

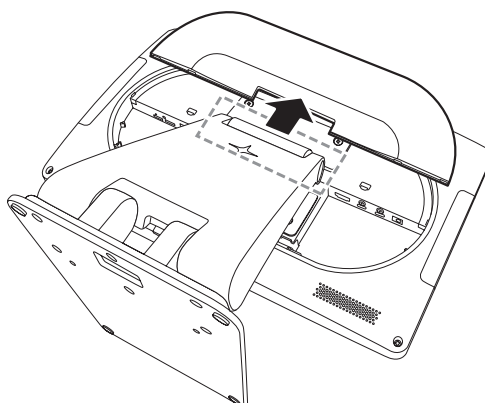


4. Remove the upper cable cover from the device.



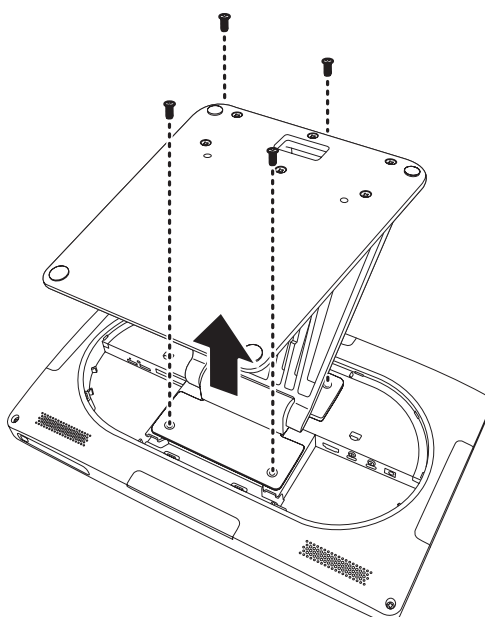
NOTE:

Adjust the stand angle if necessary to ease the removal of the upper cable cover.



5. Remove the four (4) screws securing the stand to the device.

6. Remove the stand.



Installing the stand

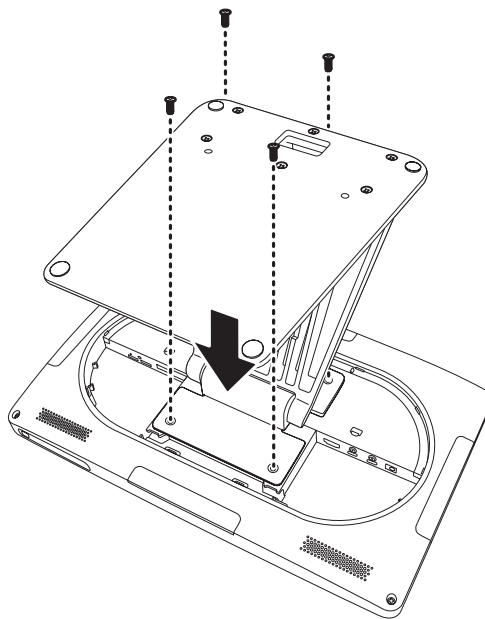
To install the stand, do the following:

1. Place the device on a flat surface, with the screen facing down.

**NOTE:**

We recommend to cover the surface with soft cloth to prevent damage to the monitor.

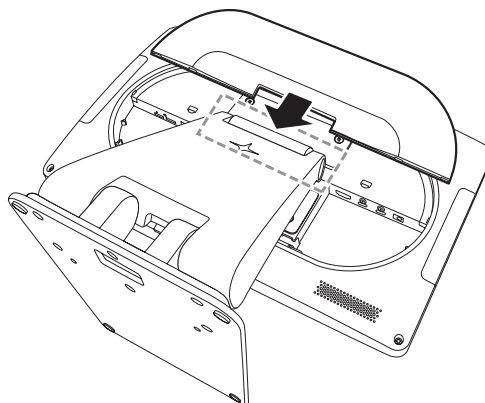
2. Align and install the stand to the device. Then secure the stand to the device with the four (4) screws.



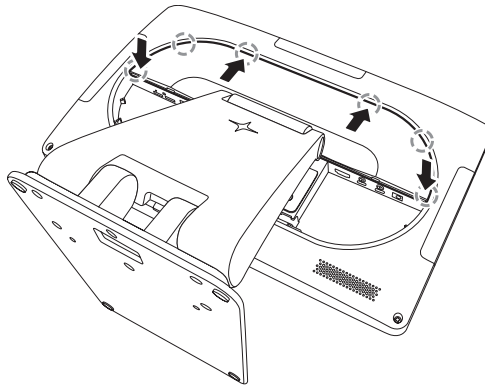
3. Install the upper cable cover to the device.

**NOTE:**

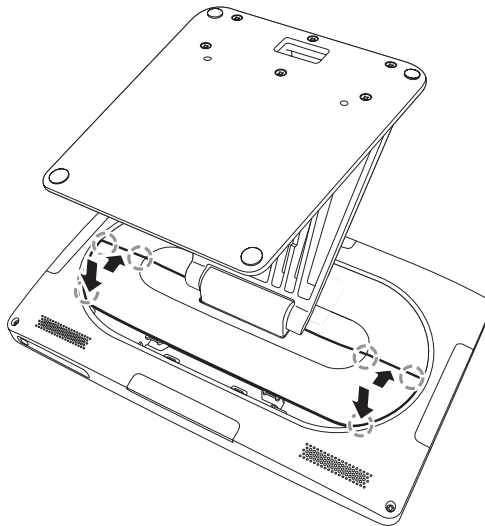
Adjust the stand angle if necessary to ease the installation of the upper cable cover.



4. Press firmly on the upper cable cover to secure the latches (marked with gray circles).



5. Install the lower cable cover to the monitor and press on it firmly to secure the latches (marked with gray circles).



Routing the power cable

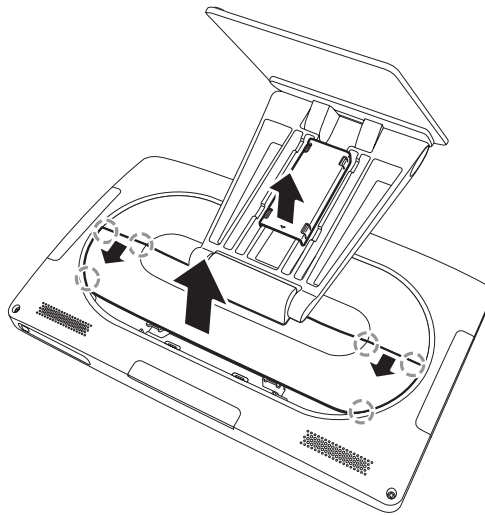
To route the power cable, do the following:

1. Place the device on a flat surface, with the screen facing down.

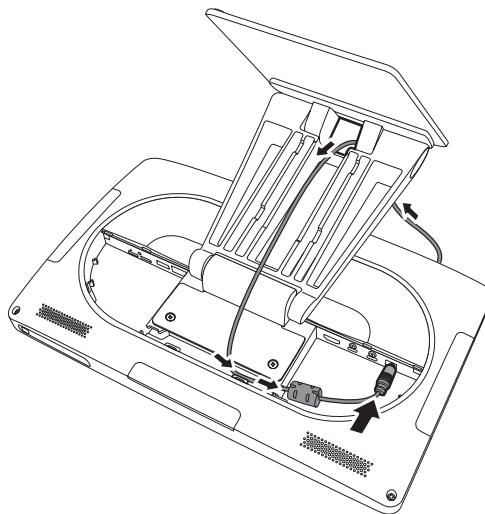
**NOTE:**

We recommend to cover the surface with soft cloth to prevent damage to the monitor.

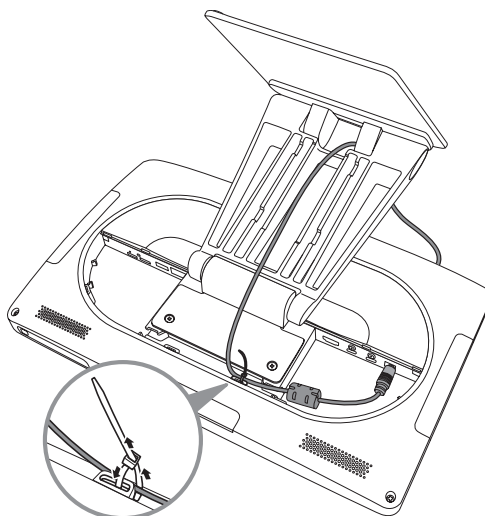
2. Pry to release the upper cable cover latches (marked with gray circles). Then remove the upper cable cover from the device.
3. Remove the cable cover from the stand.



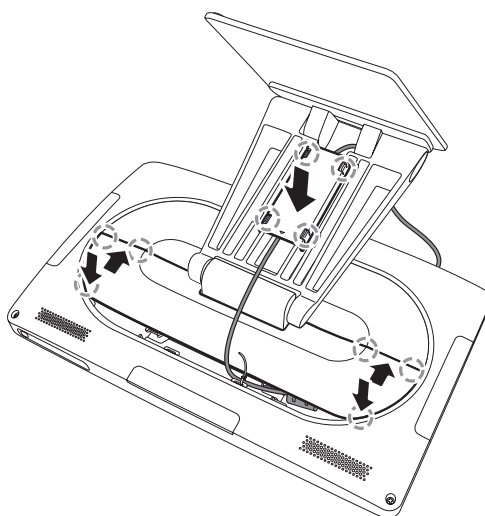
4. Route the power cable through the opening on the bottom of the stand. Continue routing it through the cable clips on top of the stand.
5. Connect the power cable to the DC IN connector on the device.



6. Secure the power cable to the cable clip with the cable tie.



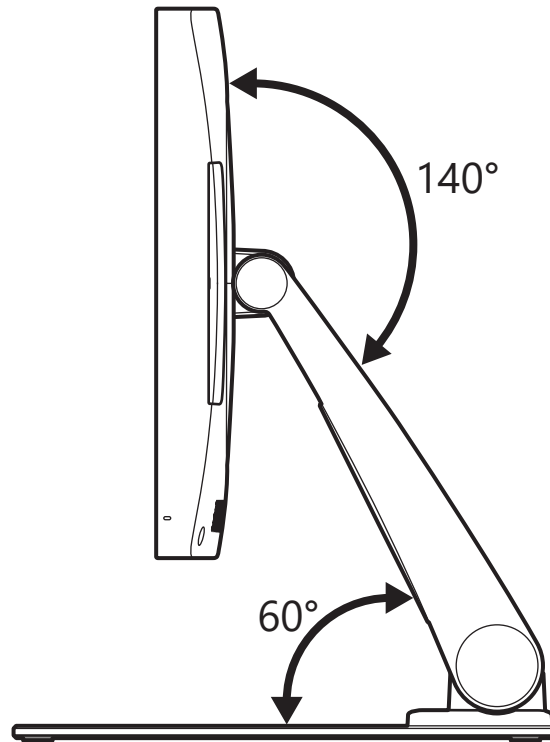
7. Install the cable cover to the stand and press on it firmly to secure the latches (marked with gray circles).
8. Install the upper cable cover to the device and press on it firmly to secure the latches (marked with gray circles).



Adjusting the viewing angle

To adjust the viewing angle, do the following:

1. Place the monitor in an upright position on a flat, stable surface.
2. Adjust the angle of the screen. The angle of the screen can be adjusted forwards and backwards up to 140° and the stand can be tilted up to 60° for a comfortable viewing experience.

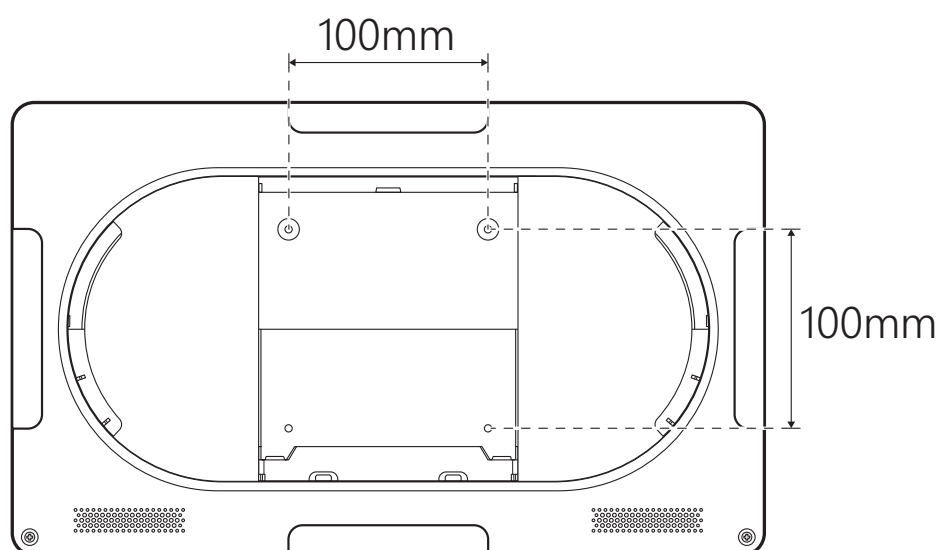


Wall mounting

This device supports VESA standard mount with 100mm x 100mm pattern located at the rear of the device.

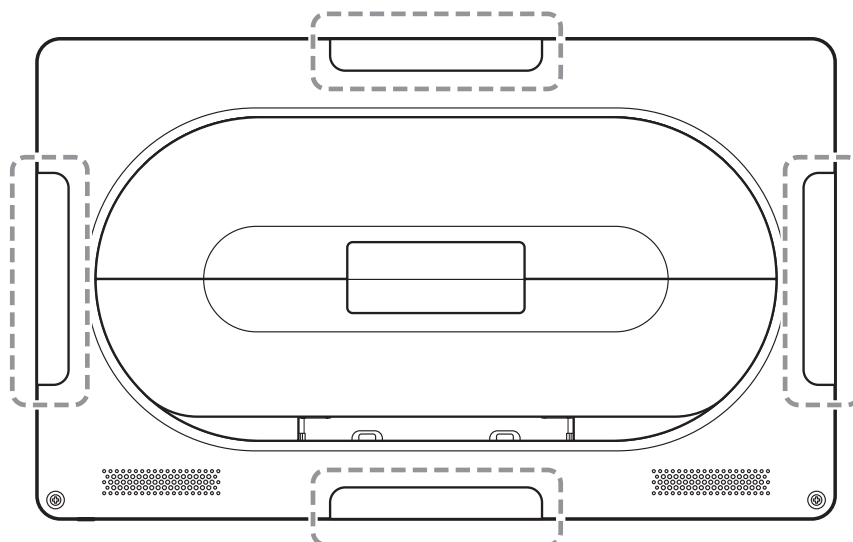
**NOTE:**

- Before mounting the device on the wall, remove the stand (refer to "Removing the stand" on page 19).
- Use M4 screws with the maximum depth of 8mm.



Preparing for the installation and removal of the optional accessories

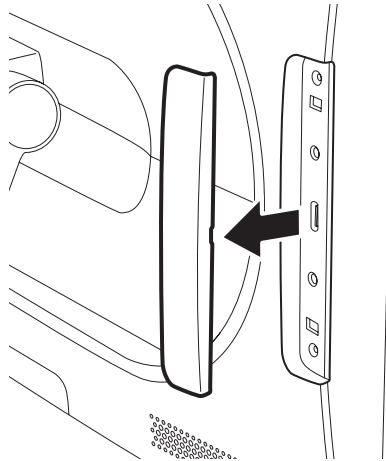
Optional accessories can be installed to any of the four locations on the rear of the device as shown in the illustration below:



Before installing the optional accessory, remove the selected compartment's cover.
After removing the optional accessory, replace the compartment cover.

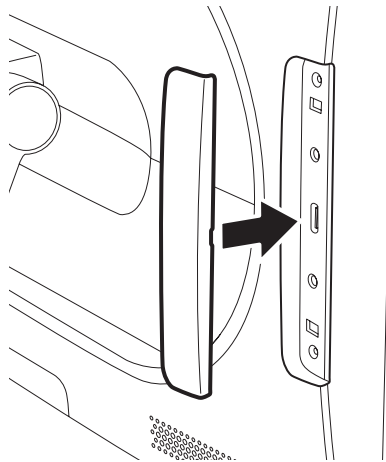
Removing the peripheral compartment cover

Before installing the optional accessory, remove the selected peripheral compartment cover.
For example, the compartment cover on the right side:



Installing the peripheral compartment cover

After removing the optional accessory, replace the peripheral compartment cover.
For example, the compartment cover on the right side:

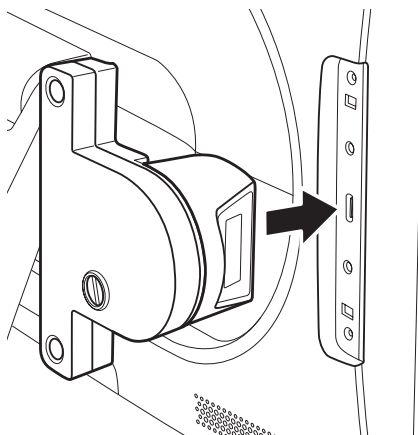


Barcode scanner (optional)

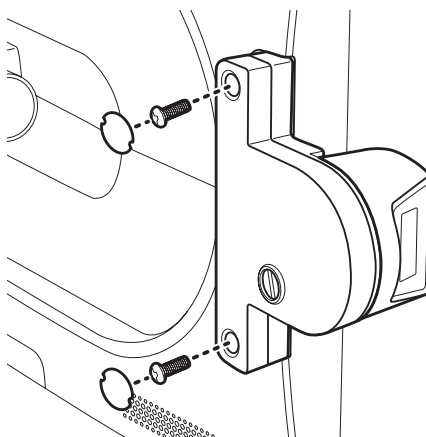
Installing the barcode scanner

To install the barcode scanner, do the following:

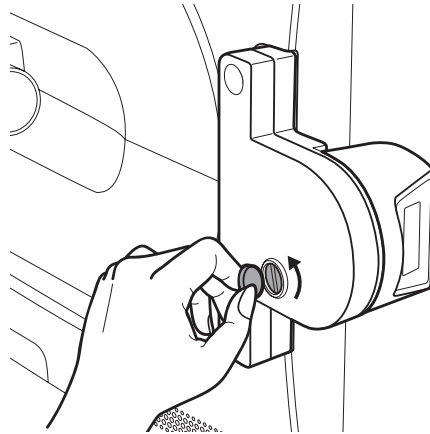
1. Remove the peripheral compartment cover. Refer to page 27.
2. Align and connect the barcode scanner to the device.



3. Attach the mylar pad on each screw.
4. Secure the barcode scanner to the device with the two (2) screws.

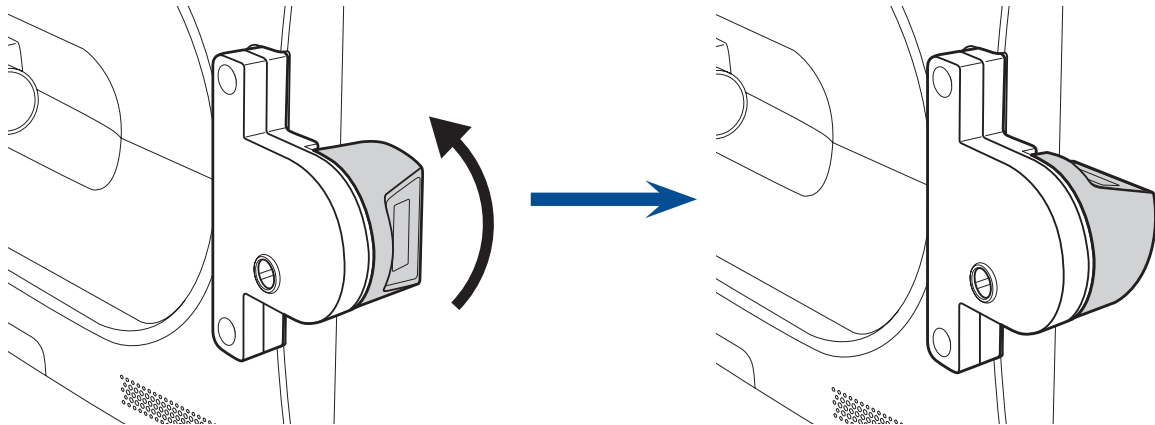


5. Turn the lock counterclockwise to adjust the barcode scanner.

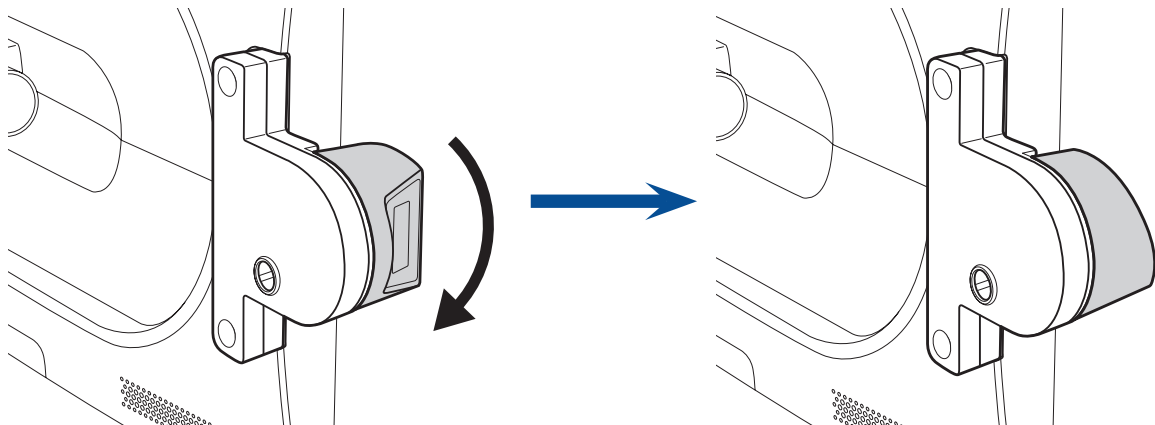


6. Adjust the laser beam position, either upwards or downwards.

- Laser beam is pointing upwards:



- Laser beam is pointing downwards:

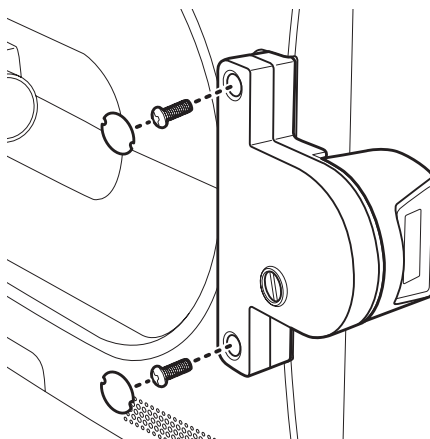


7. Turn the lock on the barcode reader clockwise to secure the laser beam position.

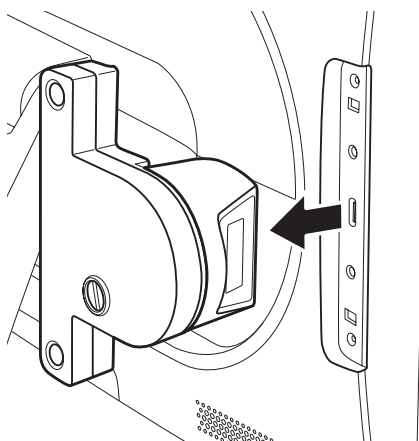
Removing the barcode scanner

To remove the barcode scanner, do the following:

1. Detach the mylar pads from the two (2) screws.
2. Remove the two (2) screws securing the barcode scanner to the device.



3. Disconnect the barcode scanner from the device.



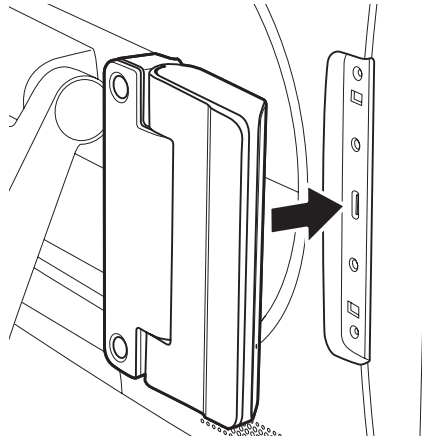
4. Replace the peripheral compartment cover. Refer to page 27.

Camera module (optional)

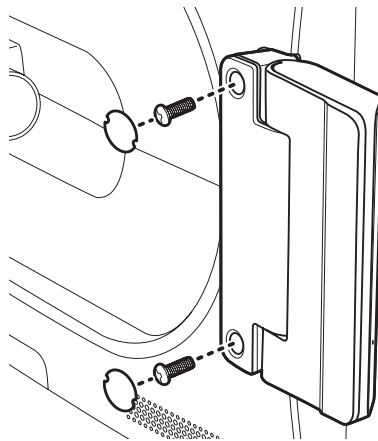
Installing the camera module

To install the camera module, do the following:

1. Remove the peripheral compartment cover. Refer to page 27.
2. Align and connect the camera module to the device.



3. Secure the camera module to the device with the two (2) screws.
4. Attach the mylar pad on each screw.

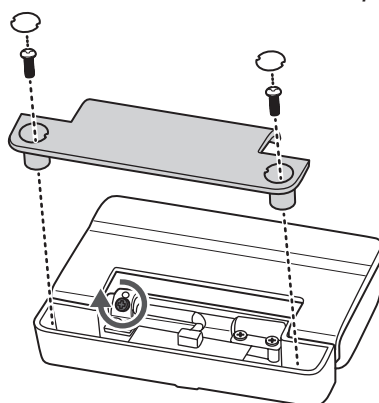




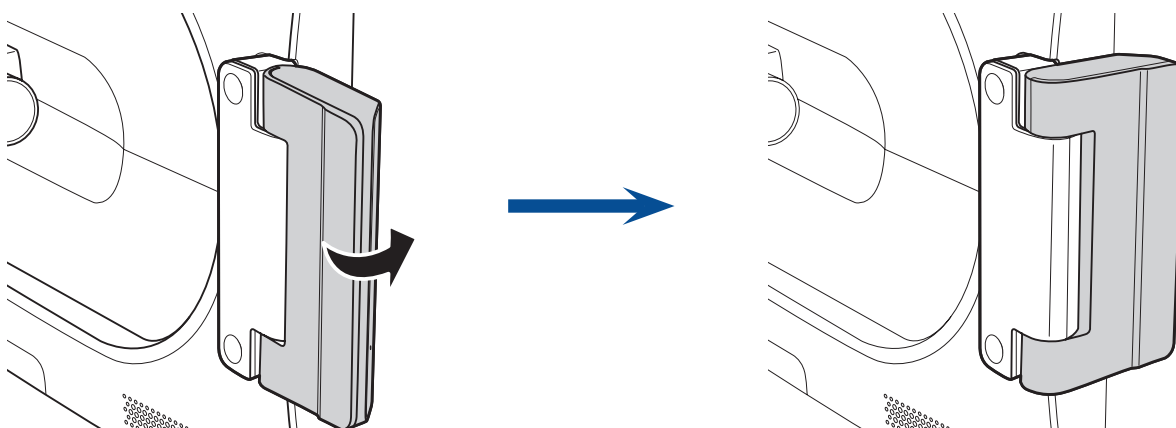
NOTE:

To adjust the camera module angle, do the following:

- a) Detach the mylar pads from the two (2) screws.
- b) Remove the two (2) screws from the camera compartment cover.
- c) Loosen the inner screw, then adjust the camera module angle.
- d) Fix the camera module angle by securing the inner screw.
- e) Reverse the steps "a" to "b" to secure the camera compartment cover in place.



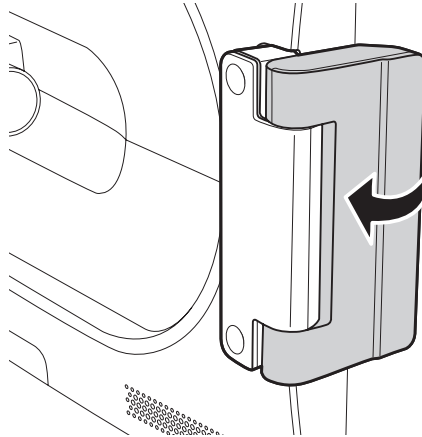
5. Push the camera module forward to face the front of the device.



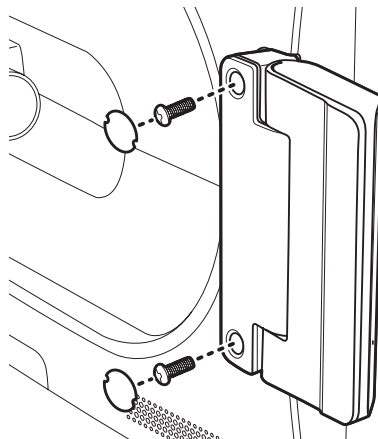
Removing the camera module

To remove the camera module, do the following:

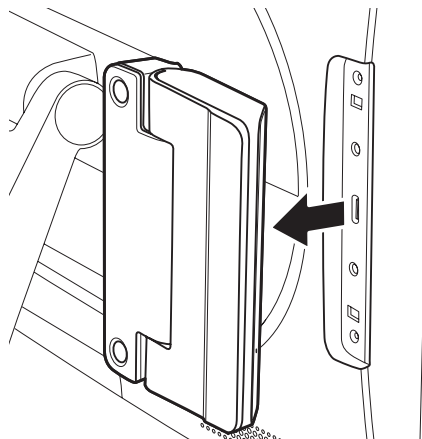
1. Push the camera module backwards until it is flush with its holder.



2. Detach the mylar pads from the two (2) screws.
3. Remove the two (2) screws securing the camera module to the device.



4. Disconnect the camera module from the device.



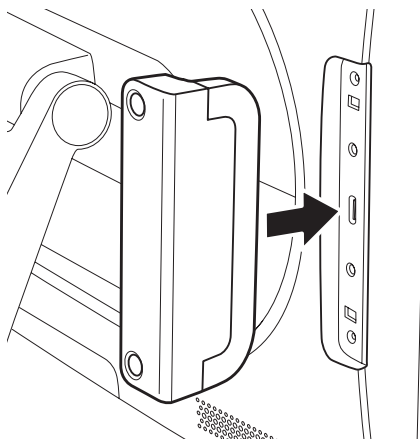
5. Replace the peripheral compartment cover. Refer to page 27.

Light bar (optional)

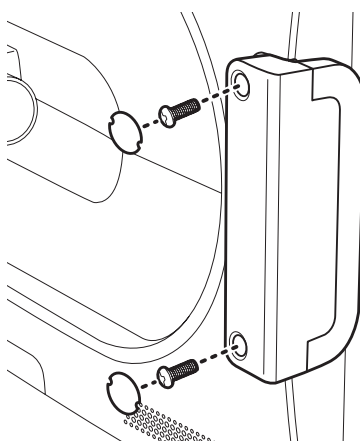
Installing the light bar

To install the light bar, do the following:

1. Remove the peripheral compartment cover. Refer to page 27.
2. Align and connect the light bar to the device.



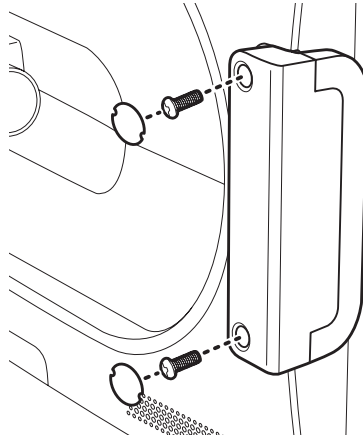
3. Secure the light bar to the device with the two (2) screws.
4. Attach the mylar pad on each screw.



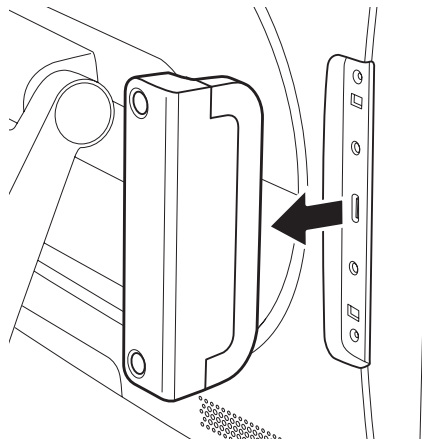
Removing the light bar

To remove the light bar, do the following:

1. Detach the mylar pads from the two (2) screws.
2. Remove the two (2) screw securing the light bar to the device.



3. Disconnect the light bar from the device.



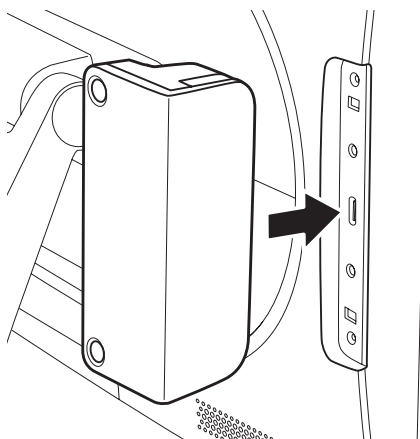
4. Replace the peripheral compartment cover. Refer to page 27.

Magnetic stripe reader (MSR) module (optional)

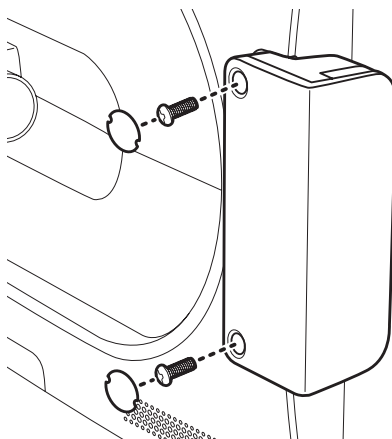
Installing the MSR module

To install the MSR module, do the following:

1. Remove the peripheral compartment cover. Refer to page 27.
2. Align and connect the MSR module to the device.



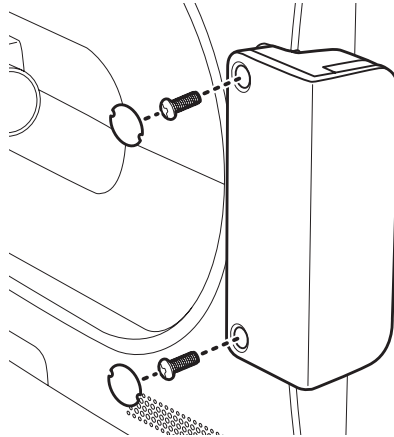
3. Secure the MSR module to the device with the two (2) screws.
4. Attach the mylar pad on each screw.



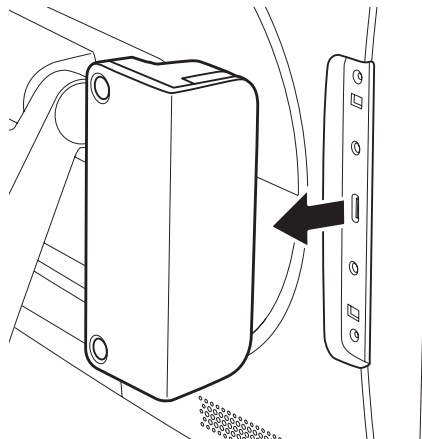
Removing the MSR module

To remove the MSR module, do the following:

1. Detach the mylar pads from the two (2) screws.
2. Remove the two (2) screw securing the MSR module to the device.



3. Disconnect the MSR module from the device.



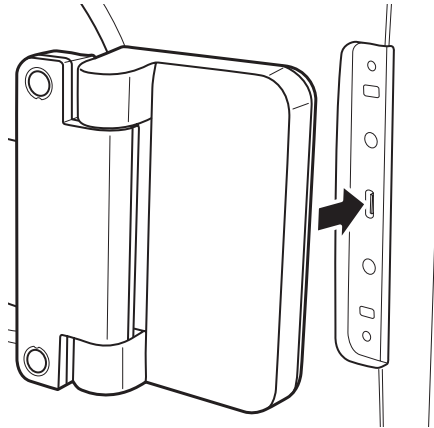
4. Replace the peripheral compartment cover. Refer to page 27.

Finger Printer module (FPR)

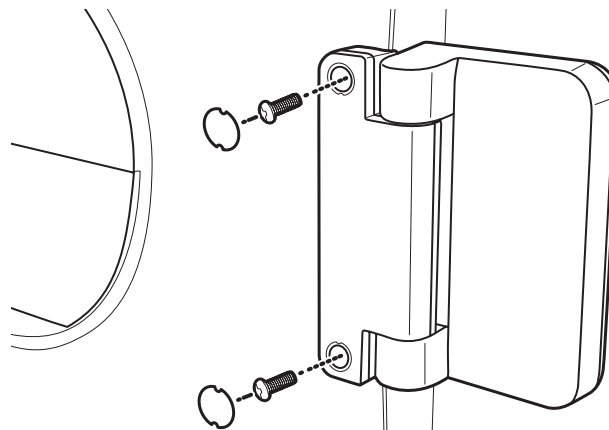
Installing the FPR module

To install the FPR module, do the following:

1. Remove the peripheral compartment cover. Refer to page 27.
2. Align and connect the FPR module to the device.



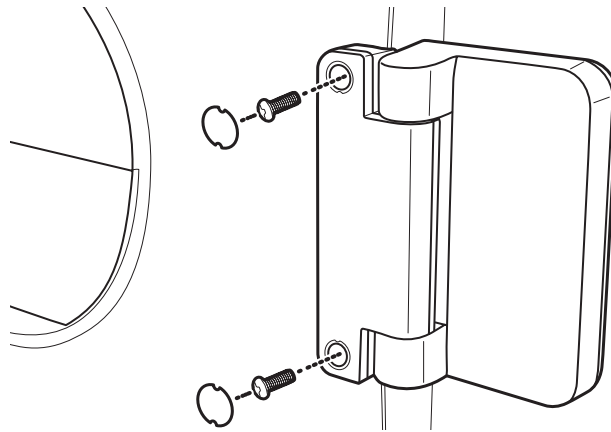
3. Secure the FPR module to the device with the two (2) screws.
4. Attach the mylar pad on each screw.



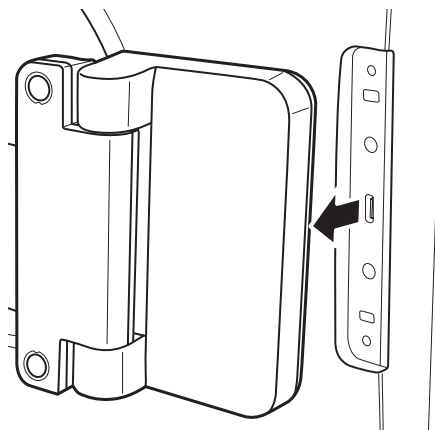
Removing the FPR module

To remove the FPR module, do the following:

1. Detach the mylar pads from the two (2) screws.
2. Remove the two (2) screw securing the FPR module to the device.



3. Disconnect the FPR module from the device.



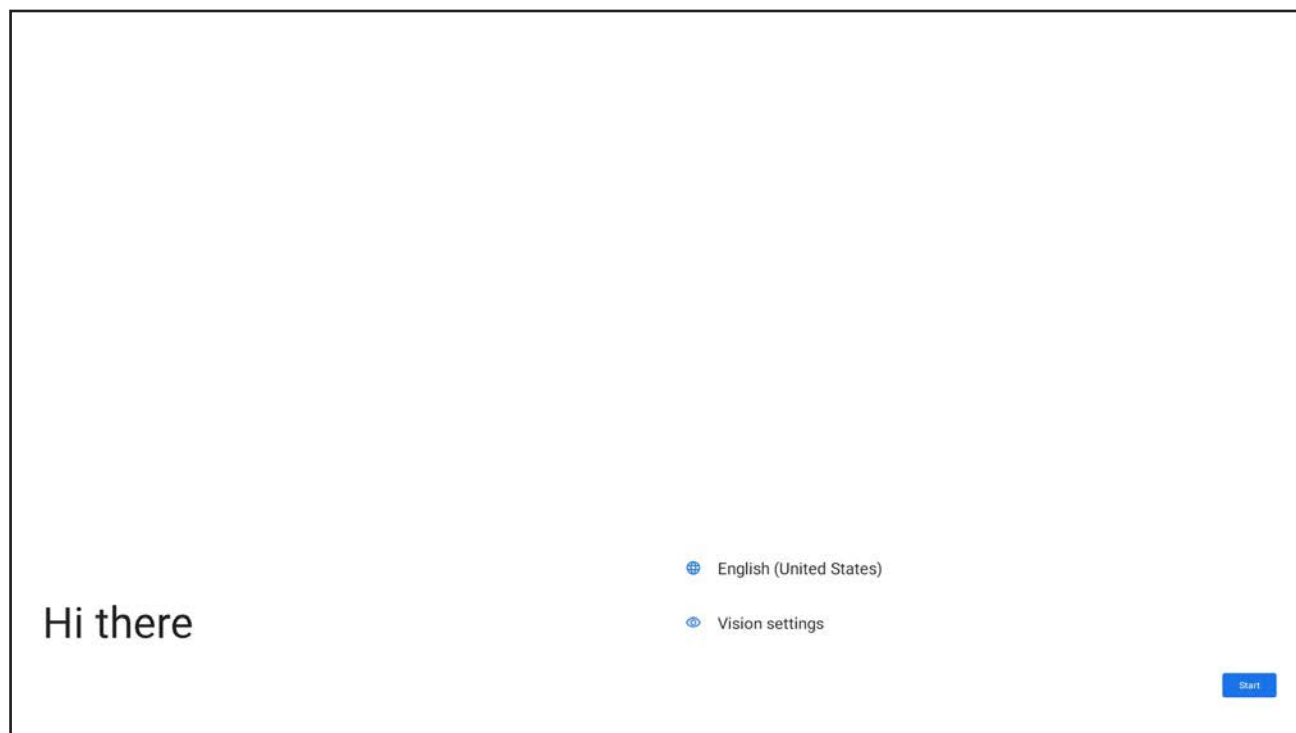
4. Replace the peripheral compartment cover. Refer to page 27.

Using the device

In this section, you will find information on how to start using your Android AIO PC.

Getting started with Android

After you connect the device to the power source, the system starts loading automatically. Wait until the initial setup wizard is displayed.



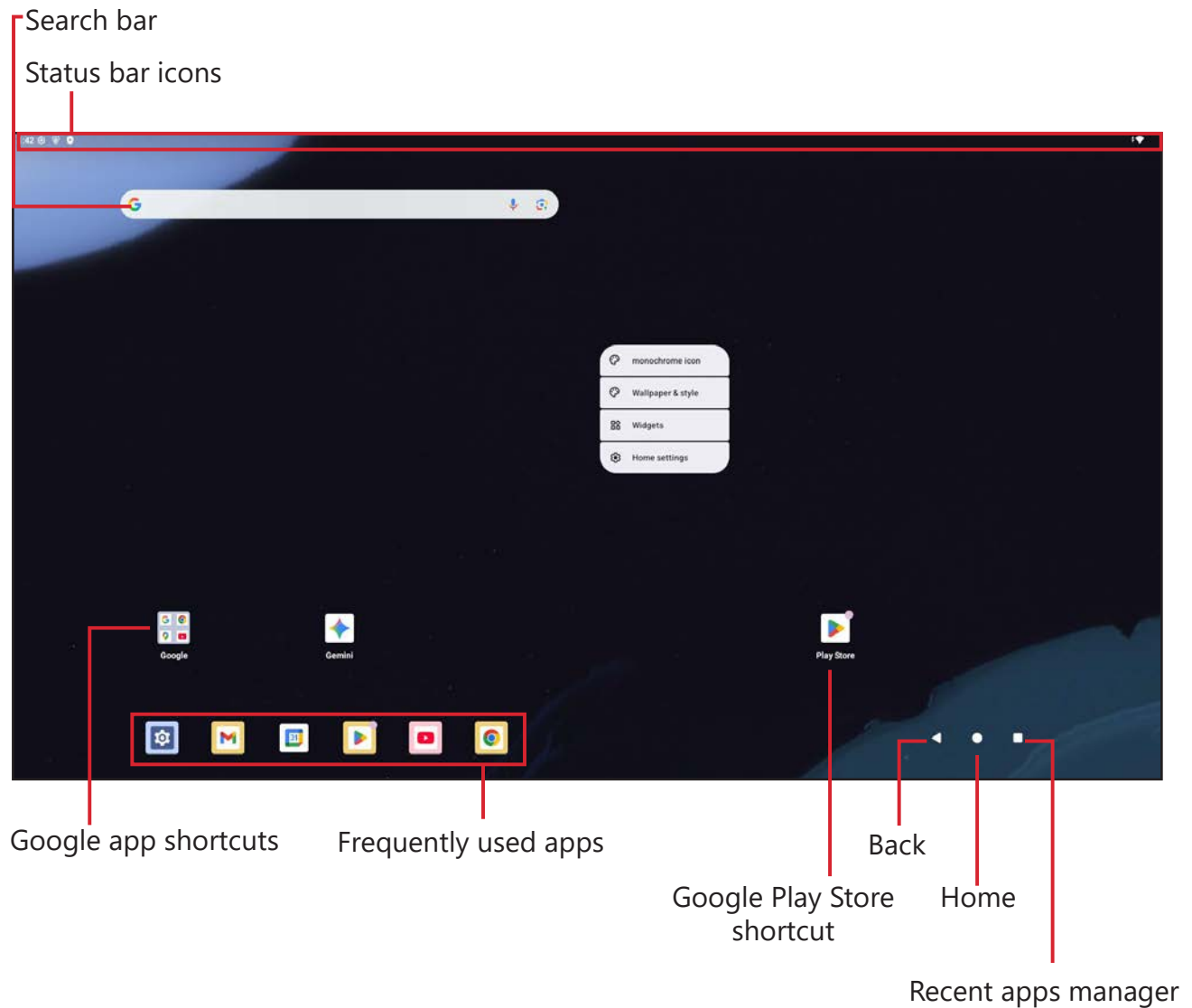
Follow the on-screen instructions to configure the basic settings, such as system language, network connection, security and more.

**NOTE:**

The initial setup wizard is displayed only when you start the device for the first time (or after reset).

Home screen overview

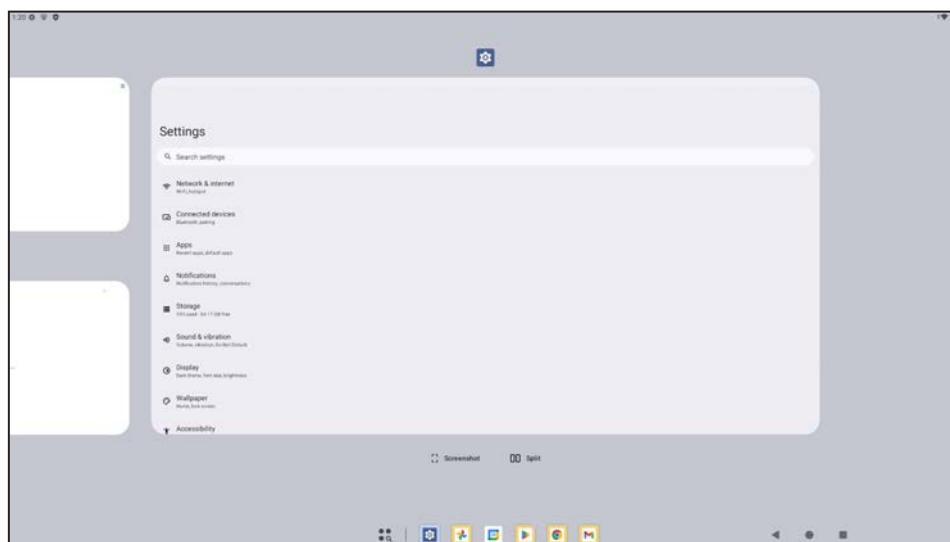
After completing the initial setup, you will then be taken to the Home screen.





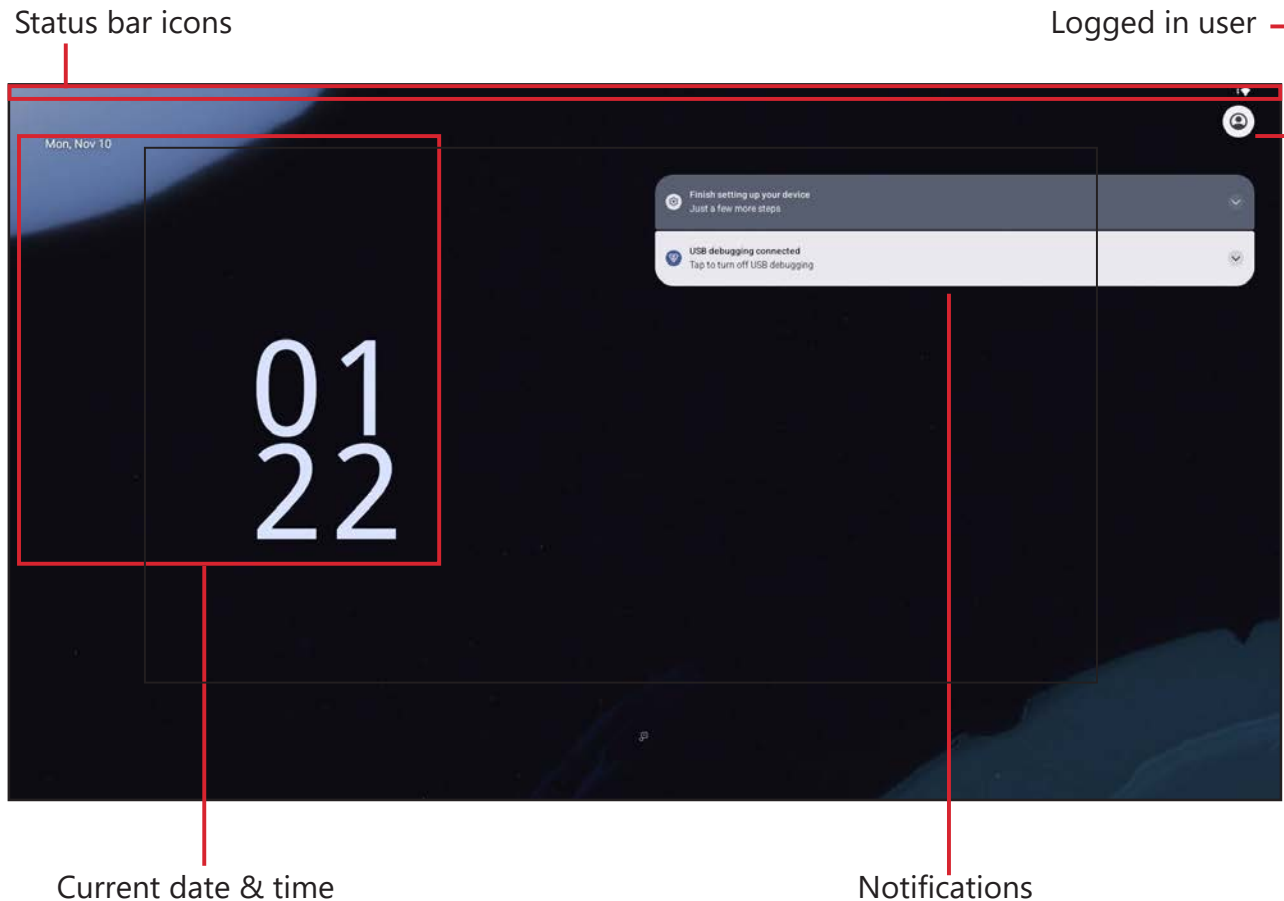
NOTE:

- Tap the back ◀ icon to return to the previous screen.
- Tap the home ● icon to return to the Home screen from any other screen.
- Tap the recent apps manager ■ icon to manage open apps. Tap on the app to open it on full screen, swipe the app upwards to close it, tap **Screenshot** to capture the screen, or tap **Split** to view apps in split view.



Lock screen overview

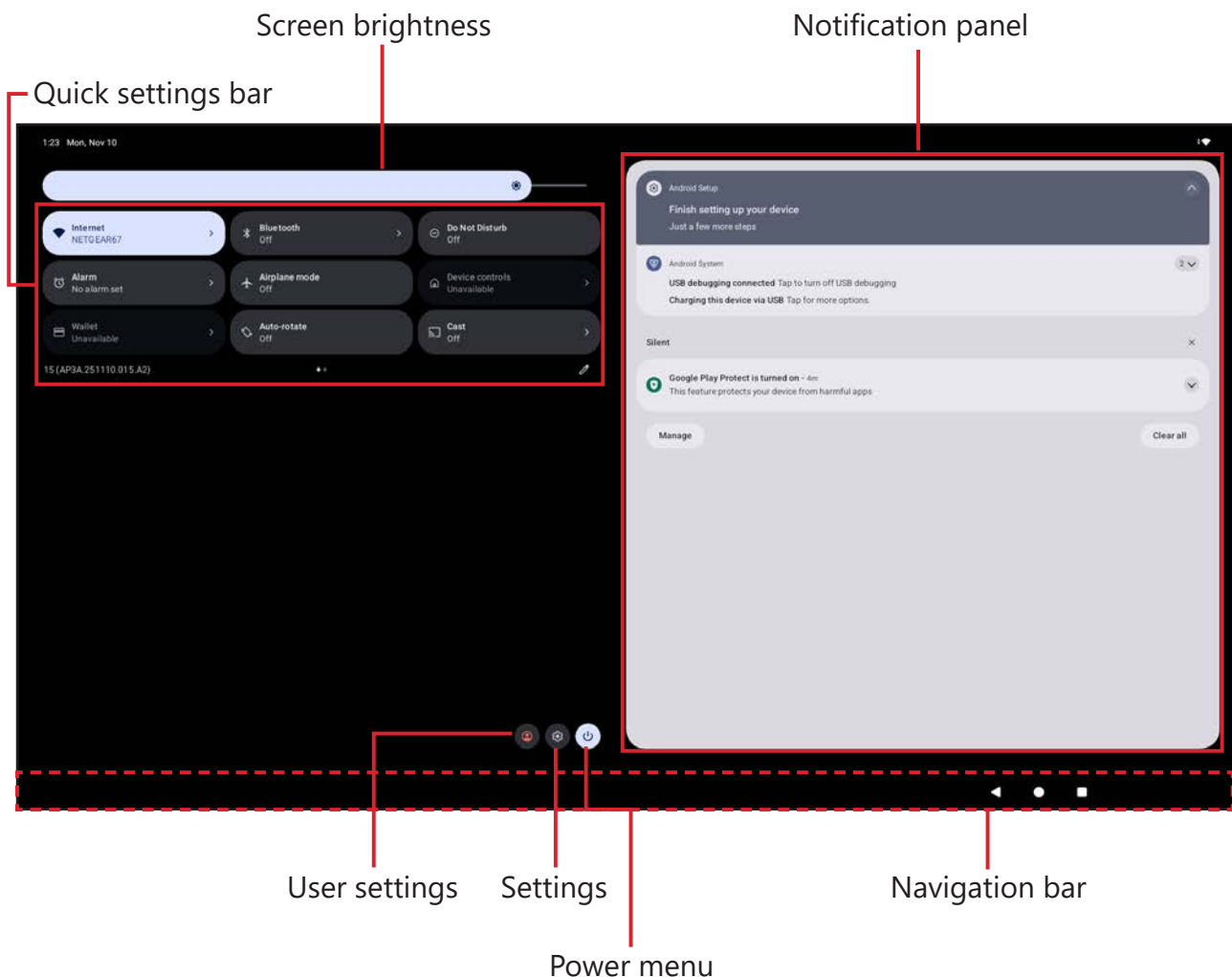
If you have set up a screen lock (swipe, pattern, PIN, or password) then the first screen that will open is the Lock screen.



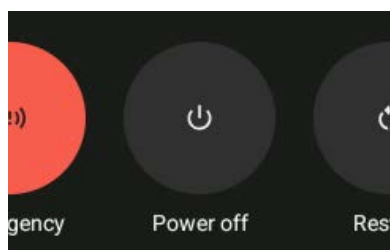
- To access the Home screen, swipe up starting from the bottom edge of the screen, draw a pattern, enter a PIN or password. For more information on locking the screen, refer to "Security" on page 51 and 52.
- To lock the screen, press the **Power** button.

Status bar

The status bar contains notifications, quick settings, system settings, and more.



- **Quick settings bar**: Tap on the respective tab to configure network, Bluetooth, do not disturb setting, manage alarms, toggle airplane mode on and off, access device controls, start screen cast, screen record, and use nearby share. To access more quick settings, tap .
- **User settings**: View the currently logged in user, select another user, or configure user settings.
- **Settings**: Access the Settings menu.
- **Power menu**: Power off  or restart  the device.



Notification panel: Tap on the notification to open it on full screen. Tap **Manage** to configure notification settings or tap **Clear all** to remove current notifications.

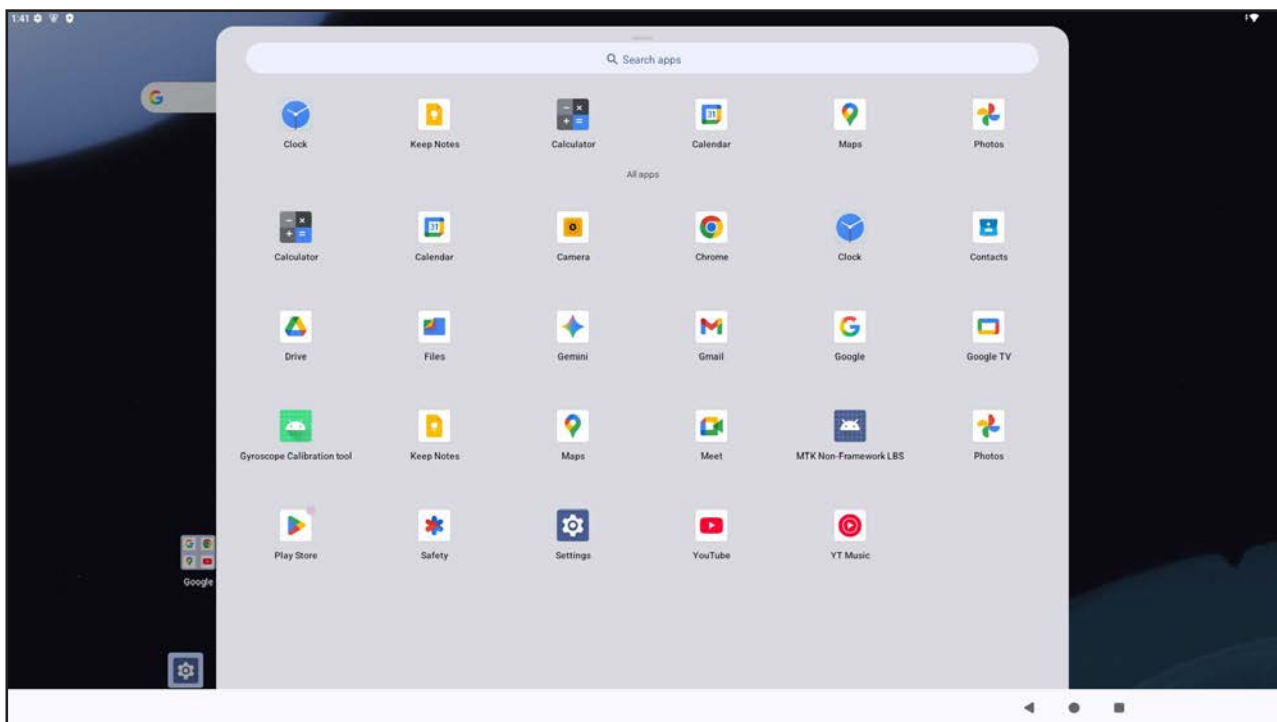
Accessing apps

To open an app, simply tap on the app icon on the Home screen. To access all apps installed on the device, swipe up from the bottom of the Home screen.



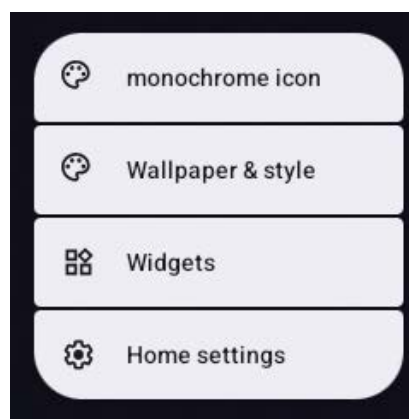
NOTE:

To find the app easier, type the name of the app to the **Search apps** bar.



Customizing the Home screen

Long tap on the Home screen and then select any of the following settings:



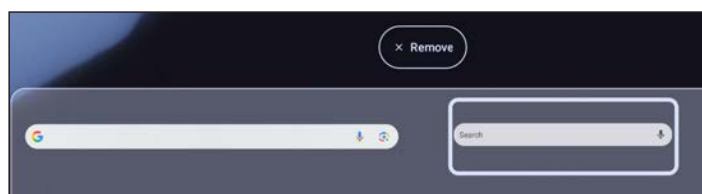
- **monochrome icon/branded icon:** Display icons in monochrome or branded.

- **Wallpapers:** Select your preferred wallpaper.
- **Widgets:** Add widgets to the Home screen.



NOTE:

*To remove the widget, long tap on the widget and swipe it upwards over the **Cancel** tab. Then release the widget and it will be removed from the Home screen.*



Home settings: Enable or disable the notification dots and adding app icons on the Home screen.

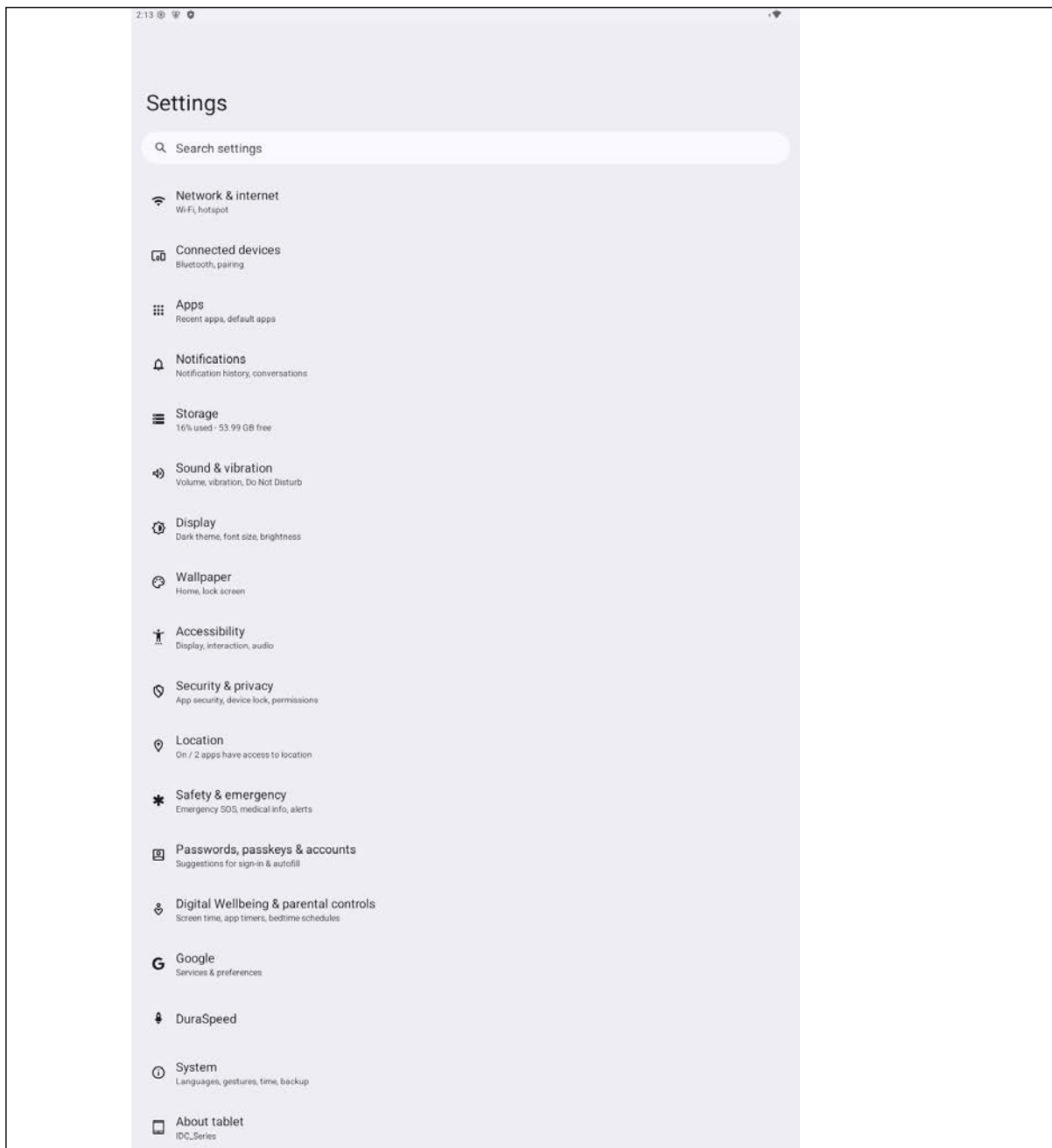
Configuring system settings

In this section, you will find information on how to configure the system settings.

Settings menu

In the Settings menu, you can configure network settings, view and manage connected devices, apps, notifications, storage, adjust sound & vibration settings, and more.

To access the Settings menu, swipe up from the bottom of the Home screen. Then tap **Settings** .



Network & internet

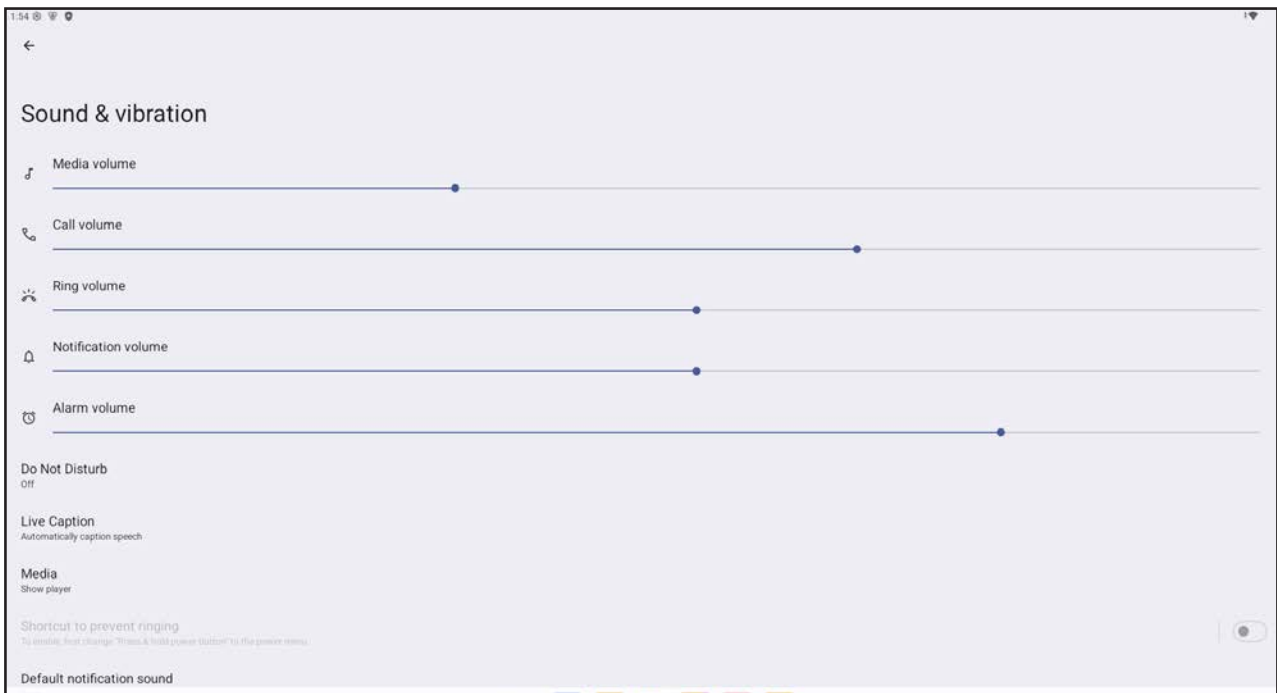
1. In the Settings menu, tap **Network & internet**.



2. Tap **Internet** and configure the connection settings:
 - **Wi-Fi:** Tap on the Wi-Fi network you want to connect to. If it is a secured network, enter the password and tap **CONNECT**.
 - **+ Add network:** If the Wi-Fi network you want to connect to is not visible in the list of available networks then tap **+ Add network** and enter the connection parameters manually or tap  and scan the connection QR code.
 - **Network preferences:** Enable or disable turning on Wi-Fi automatically when it becomes available, notify when high-quality public network is available, install certificates, and add devices via Wi-Fi direct.
 - **Saved networks:** Manage saved networks.
 - **Non-carrier data usage:** Monitor and manage non-carrier data usage.
3. Tap **Ethernet** and configure LAN settings. In the inside page, tap Ethernet to toggle Ethernet on or off, select the Ethernet IP mode between static and DHCP. Then enter the required connection parameters.
4. Tap **Airplane mode** to toggle airplane mode on or off.
5. Tap **Hotspot & tethering** to provide Internet to other devices through your Android AIO PC.
6. Tap **Data Saver** to help to reduce data usage. Data saver prevents some apps from sending or receiving data in the background.
7. Tap **VPN** and add virtual private network connections.
8. Tap **Private DNS** to select the private DNS mode of the device.
9. Tap  to return to the Settings menu.

Sound & vibration

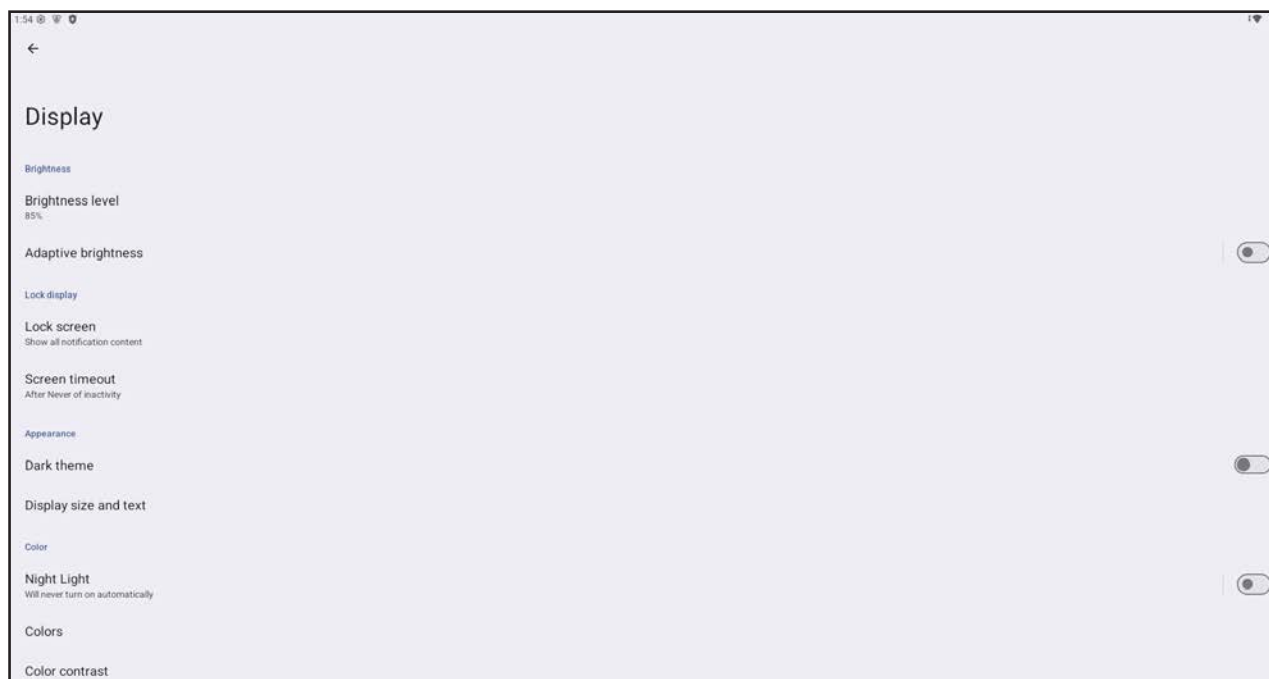
1. In the Settings menu, tap **Sound & vibration**.



2. Configure the sound and vibration settings of your device:
 - **Media volume:** Move the slider to adjust the media volume.
 - **Call volume:** Move the slider to adjust the call volume.
 - **Alarm volume:** Move the slider to adjust the alarm volume.
 - **Notification volume:** Move the slider to adjust the notification volume.
 - **Do Not Disturb:** Enable or disable the do not disturb mode.
 - **Live Caption:** Configure live caption settings. This feature detects speech on your device and automatically generates captions.
 - **Media:** Enable or disable showing media recommendations and keeping media player open in Quick Settings for fast resume.
 - **Vibration & haptics:** Configure vibration and haptics settings or disable this feature.
 - **Default notification sound:** Select the default notification sound.
 - **Default alarm sound:** Select the default alarm sound.
 - **Screen locking sound:** Enable or disable screen locking sound.
 - **Charging sounds and vibration:** Enable or disable charging sounds and vibration.
 - **Touch sounds:** Enable or disable touch sounds.
 - **Always show icon when in vibrate mode:** Enable or disable showing icon when in vibrate mode.
 - **Sound enhancement:** Configure sound enhancement settings.
3. Tap ← to return to the Settings menu.

Display

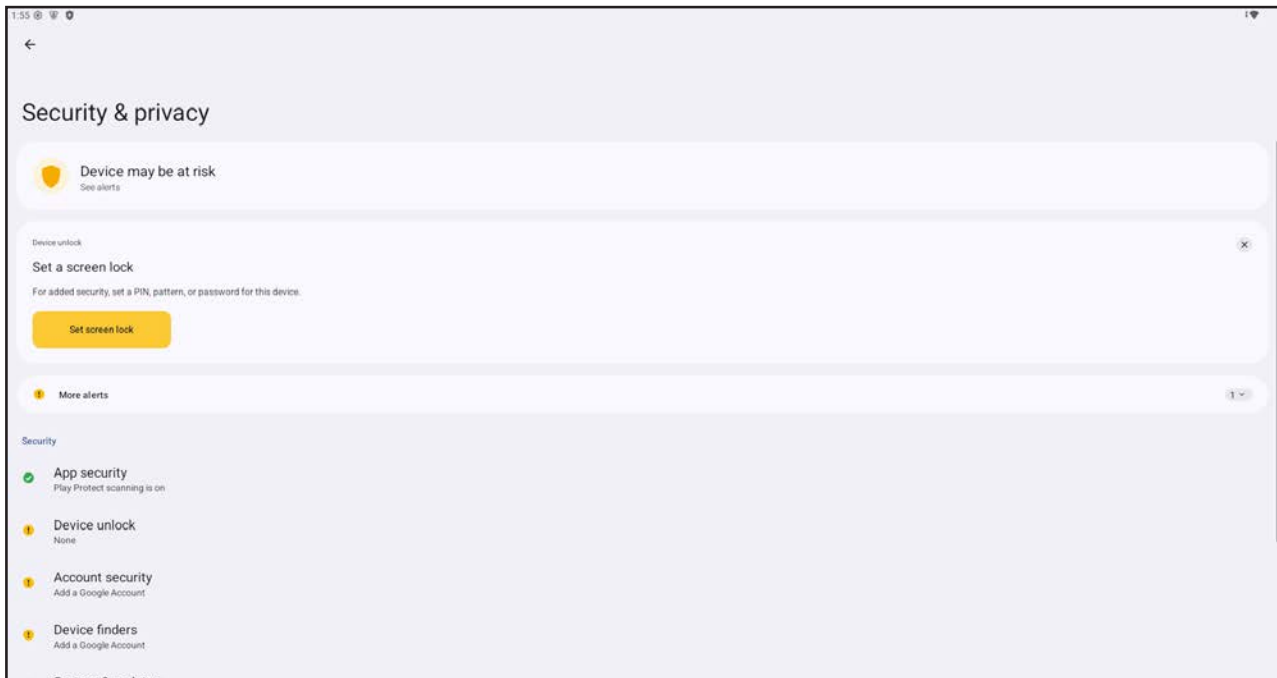
1. In the Settings menu, tap **Display**.



2. Configure the display settings of your device:
 - **Brightness:** Tap on **Brightness** and then move the slider to adjust the screen brightness.
 - **Lock screen:** Customize the lock screen.
 - **Screen timeout:** Select the time period how long the screen should stay on while idle.
 - **Dark theme:** Enable or disable dark theme. This feature uses a black background to help keep battery alive longer on some screens. Dark theme schedules wait to turn on until your screen is off.
 - **Display size and text:** Adjust the display size and text.
 - **Night Light:** Schedule night light mode or disable this feature. If enabled, night light tints your screen amber. This makes it easier to look at your screen or read in dim light.
 - **Colors:** Verify the screen colors.
 - **Screen saver:** Enable or disable screen saver.
 - **Double twist for camera:** Enable or disable opening the Camera app by twisting your wrist twice.
 - **HDMI settings:** Configure HDMI settings.
3. Tap ← to return to the Settings menu.

Security

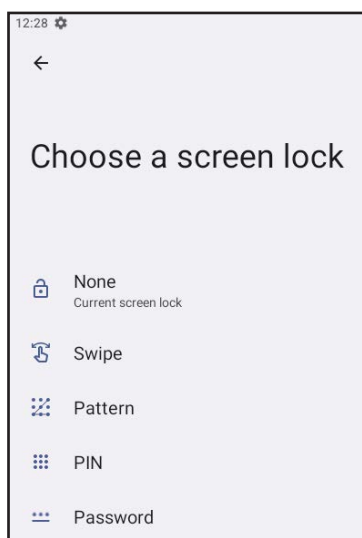
1. In the Settings menu, tap **Security**.



2. Configure the security settings of your device:
 - **Google Play Protect:** Scan for harmful apps. By default, this feature regularly checks your apps and device for harmful behavior. If any threat is found, you will be notified.
 - **Find My Device:** Enable or disable this feature. Find my device helps you locate this device remotely. If you lose this device, it also helps you keep your data safe.
 - **Security update:** By default, the security updates are downloaded automatically. If you need to update the system manually, tap **Security update** > **Check for update**.
 - **Google Play system update:** Tap to update Google Play system.
 - **Screen lock:** Set the screen lock to protect your device from unauthorized access. Tap on **Screen lock** and then select how you want to protect the screen.

**NOTE:**

*To turn off the screen lock feature, select **None**.*



- **Swipe:** Swipe upwards starting from the bottom of the screen to unlock the screen.
- **Pattern:** Draw a pattern to unlock the screen.
- **PIN:** Enter the PIN code to unlock the screen.
- **Password:** Enter the password to unlock the screen.



NOTE:

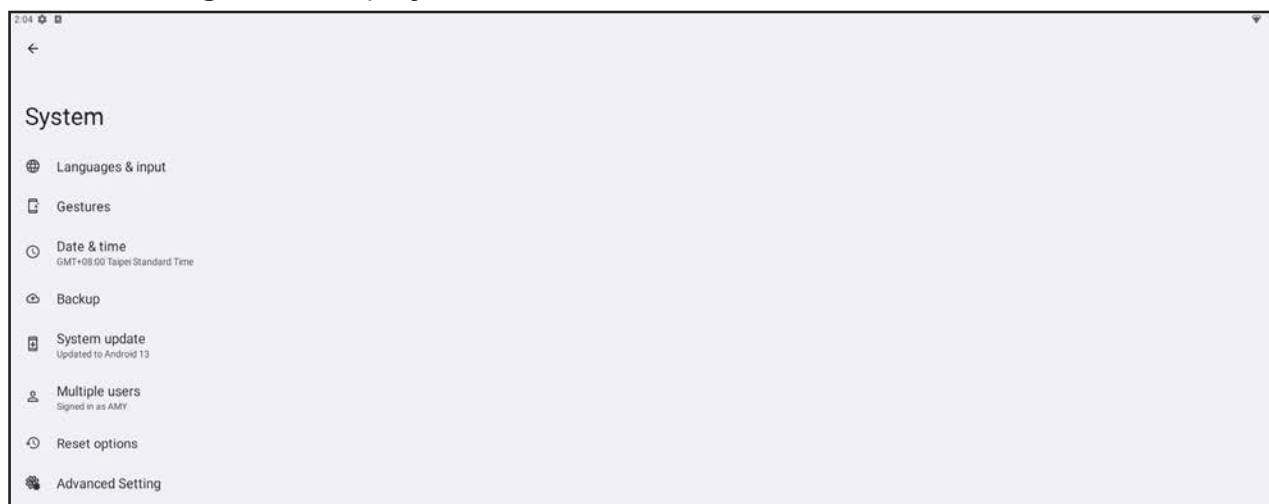
Press the **Power** button to activate screen lock.

- **More security settings:** Configure encryption, credentials, and more.

3. Tap ← to return to the Settings menu.

System settings

1. In the Settings menu, tap **System**.



2. Configure the system settings of your device:

- **Language & input:** Select the system and apps languages, configure on-screen and physical keyboard settings, voice input, text-to-speech output, spell checker, personal dictionary, and adjust the pointer speed.
- **Gestures:** Enable or disable to quickly open the camera, configure gesture/3-button navigation, and press & hold setting for the Power menu.
- **Date & time:** Configure the date and time settings.
- **Backup:** Back up your device.
- **System update:** Ensure the system is up to date. To check for new updates manually, tap **System update** > **Check for update**.
- **Multiple users:** Enable or disable multiple users for your device and manage users.
- **Reset options:** Reset the device. You can choose between resetting Wi-Fi, mobile & Bluetooth, app preferences, or factory reset.



TIP:

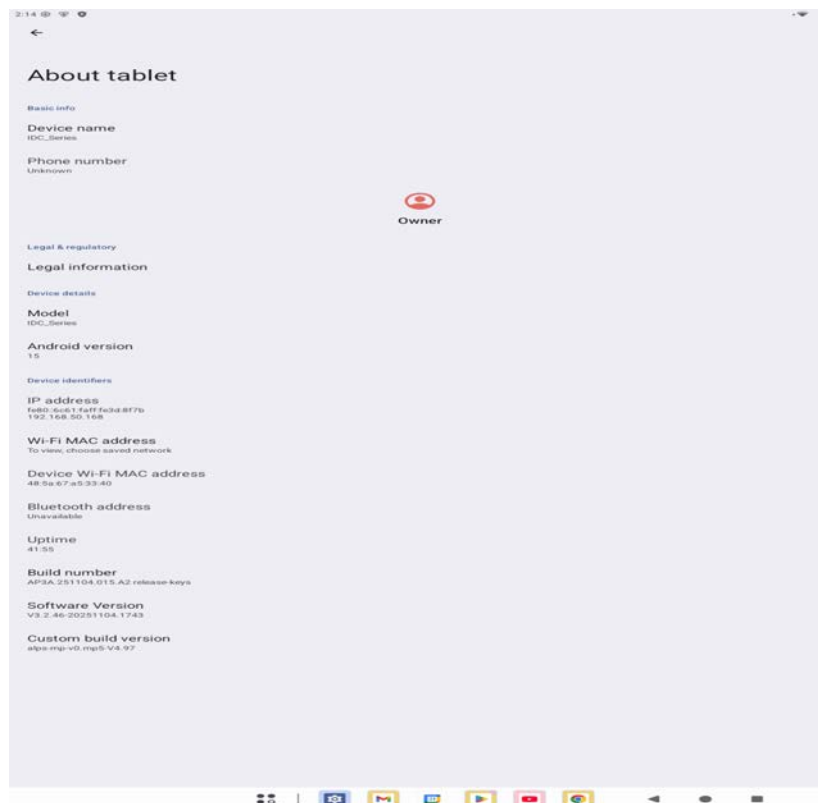
Before resetting the device, make sure to back up your data as it may erase some or all of your files.

- **Advanced Setting:** Show or hide the status bar/navigation bar, lock/unlock the **Power** button, and rotate the screen.

3. Tap ← to return to the Settings menu.

About the device

1. In the Settings menu, tap **About tablet**.



2. View device information, such as device name, logged in user, legal information, model name, Android version, IP, Wi-Fi MAC, and Bluetooth addresses, up time, build number, software version, custom build version, and software updates.
3. Tap ← to return to the Settings menu.

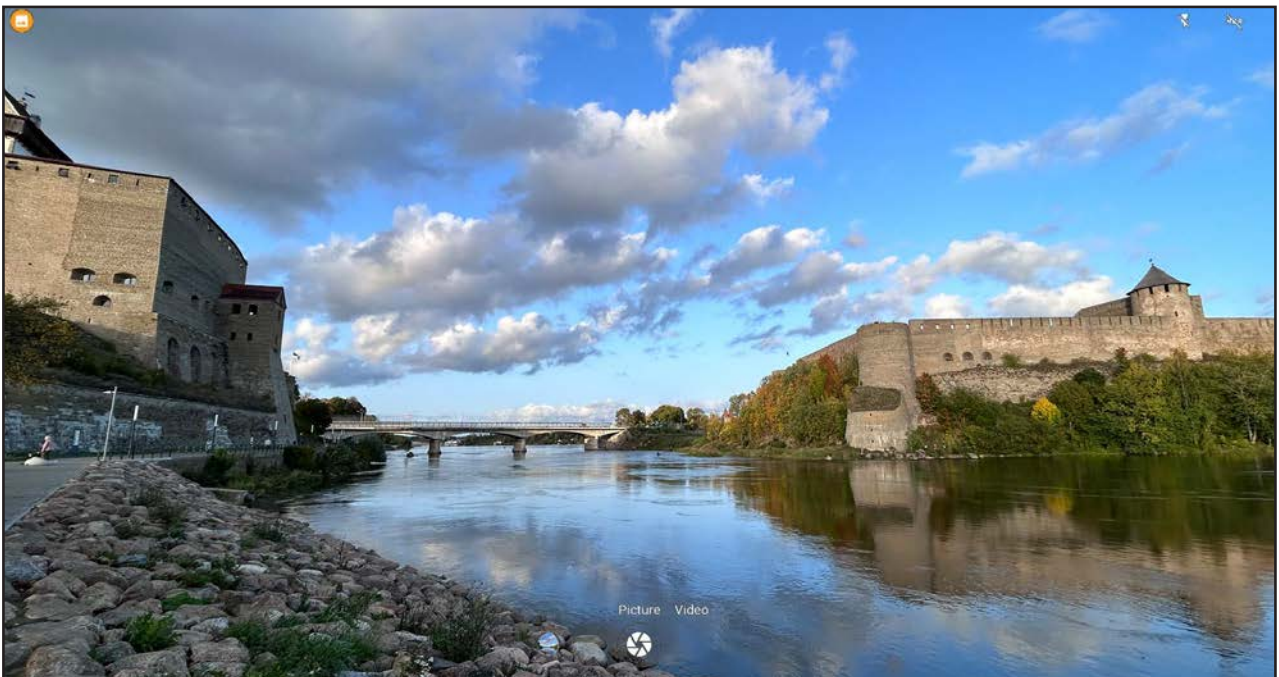
Using the apps

In this section, you will find information on apps that are installed on the device and how to download more apps.

Camera app

Use the Camera app to take photos and videos.

To find the Camera app, swipe up from the bottom of the Home screen and tap **Camera** .



To capture a photo, do the following:

1. Select **Picture**.
2. Tap  to capture the photo. The image will be saved to the Photos folder where you can edit it, share to others, and more.



NOTE:

While capturing your photos, you can use flash and HDR. Simply tap on the respective screen control icon on the top right of the screen.

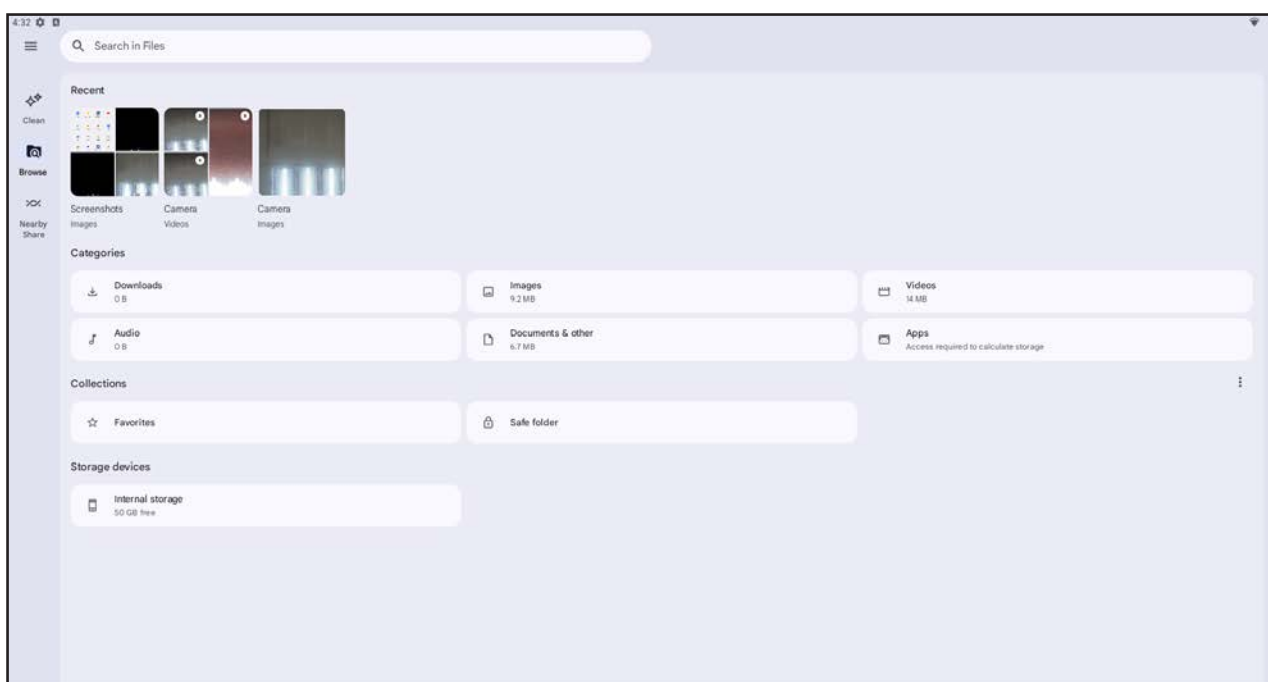
To record a video, do the following:

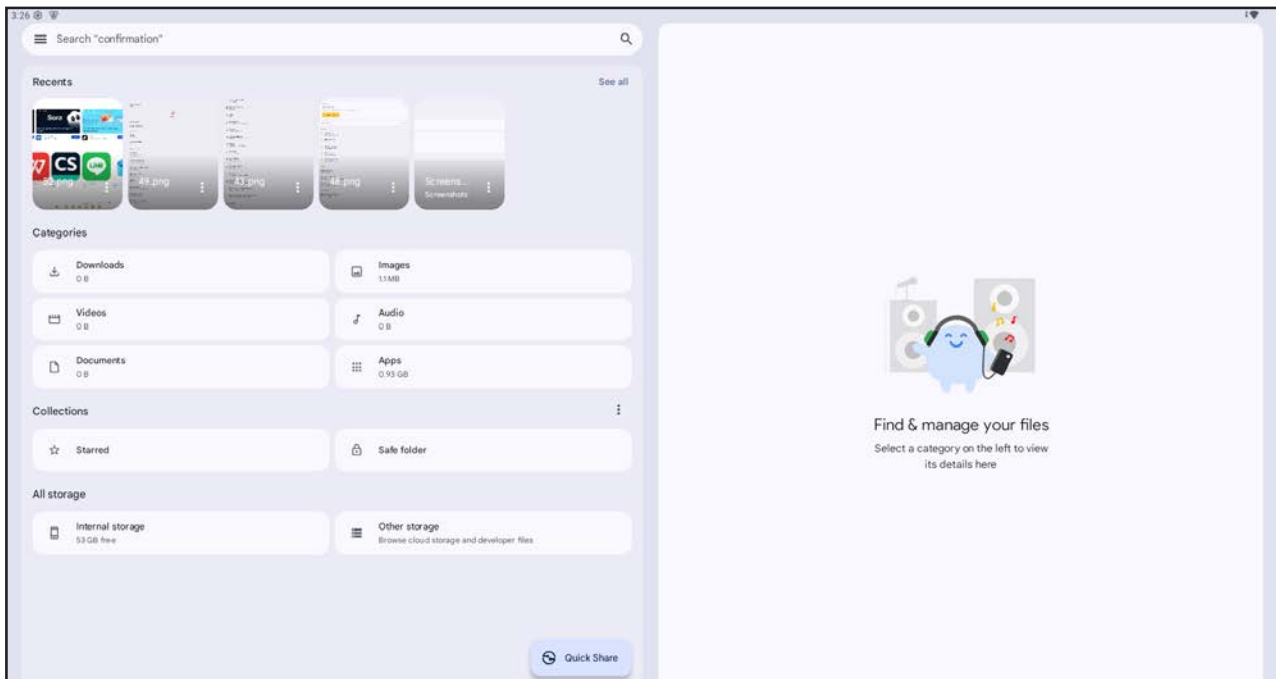
1. Select **Video**.
2. Tap  to start recording the video. While recording the video, tap any of the following screen control icons:
 - : Pause the recoding. Tap  to resume the recording.
 - : Stop recording. The video will be saved to the Photos folder where you can edit it, share to others, and more.
 - : Capture the photo.

Files app

In Files app, you can manage files that are saved to the internal memory or to other accessible storages, such as USB flash disk.

To find the Files app, swipe up from the bottom of the Home screen and tap **Files** .

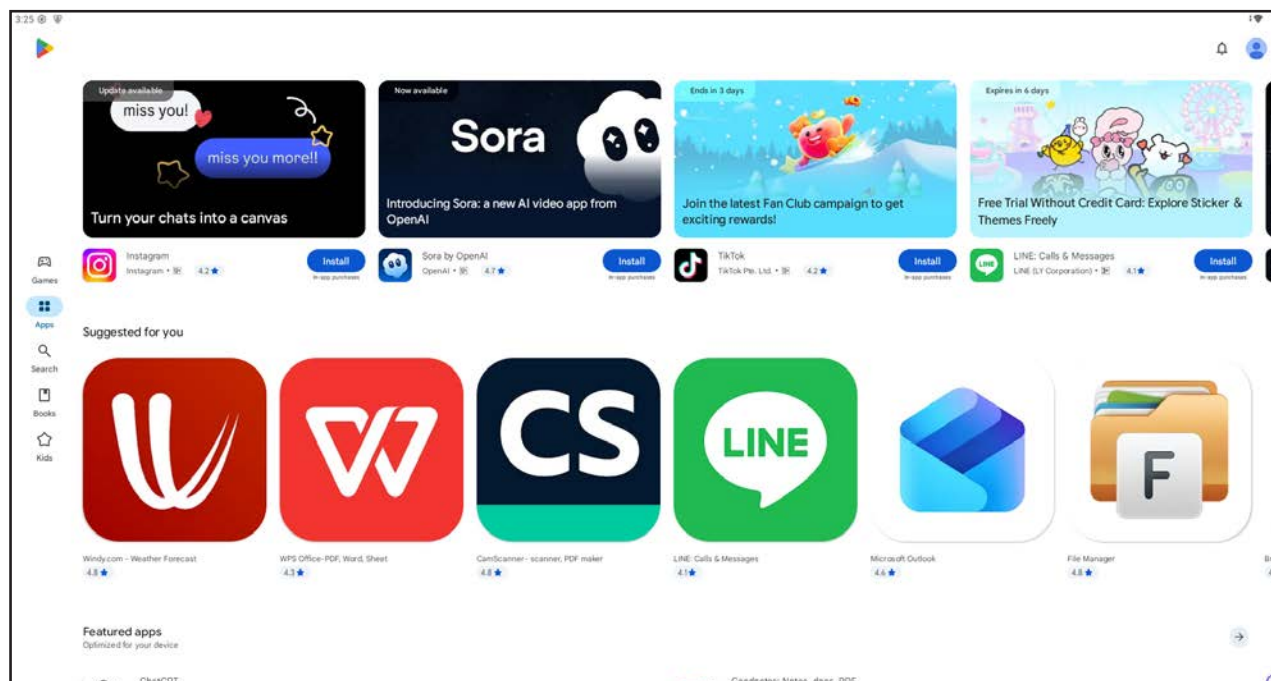




In the Files app, you can search for files, use the Clean function to free up more space, share files to nearby devices via Nearby Share, select files and move or copy them to other locations, add to favorites, back up to Google Drive, delete, send files by email, and more.

Downloading apps

To find and download more apps to your device, tap **Play Store**  on the Home screen.



Appendix

In this section, you will find device and peripherals specifications, dimensions, and more.

Device specification

Item	Description
	M1-215IC-AB2
System:	
Processor	MTK Solution Prefer MT8390 (i700)
GPU	2D/3D GPU Mali-G57
System memory	LPDDR4(x)8GB RAM
Storage device	64GB eMMC
Power input	12V DC-in 90W
Wi-Fi	IEEE 802.11 a/b/g/n/ac/ax, 2T2R
LTE FDD	B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28 (optional)
LTE TDD	B38/B39/B40/B41 (optional)
WCDMA	B1/B2/B4/B5/B6/B8/B19 (optional)
Bluetooth	5.2(Low Energy)
PoE (Note*)	PoE rating is 52~57Vdc, 1A
Touch LCD display:	
Size / Resolution	21.5" TFT LCD / 1920 x 1080
Contrast ratio	1000:1
Brightness (touch type)	350 nits (No Touch)
View angle	H:178°, V:178°
Touch screen	Projected Capacitive Touch, 10 Points
Camera:	
Front camera	5M pixel front camera
IO ports:	
USB port	1 x USB 3.0 Type A host 1 x USB 3.0 Type C host 1 x USB 2.0 Type C (OTG DP-alt)
LAN Port	1 x RJ45 (10/100/1000 baseT)
Video Port	1 x HDMI-A, support 4K@60Hz
Audio Port	1 x Audio-Output (3.5 mm Mini-Jack)
Power Input	1 x DC in 90W/12V External AC Power Adaptor
SD Slot	1 x micro SD slot ,support SD 3.0 (SDXC)

Item	Description
	M1-215IC-AB2
SIM Slot (4G)	Optional
Reset key	1
Physical properties:	
Speaker	2 x 2W
Material	Plastic + Glass + SECC Metal
Housing Color	Black
Compliance	Front Panel IP65 compliant
Dimensions (W x H x D) mm	306.91 mm x 515.44 mm x 41 mm (w/o stand)
Net weight (kg)	3.87 Kgs (w/o stand) 6.92 Kgs (w/ stand)
Gross weight (kg)	6.12 Kgs (w/o stand) 9.1 Kgs (w/ stand)
Carton (W x H x D) mm	372 mm x 582 mm x 145 mm (w/o stand)
VESA	100 mm x 100 mm
Ball drop	IK07
Safety:	
Certifications	CE, FCC, UL/CUL, UKCA / RF / , RoHS
Environment:	
ESD Endurance	8KV Contact, 15KV Air Criteria B
Operating temperature	0°C ~ 40°C, 20% ~ 80% RH. Non-Condensing
Storage Temperature	-20°C ~ 60°C, 10% ~ 90% RH. Non-Condensing
Function key and indicator:	
Power button	1
Power LED	1
Operating system:	
System	Android
Accessory box:	
Power cord	1 x EU 1 x UL
Adaptor	1 x 90W/12V
Bracket	N/A
Stand	Optional



NOTE (*):

- *The equipment is to be connected only to PoE networks without routing to the outside plant.*
- *If the power supply doesn't ship with the unit, the manual shall have the description as below or equivalent: "This product is intended to be supplied by
(1) an UL listed power supply suitable for using at Tma min. 50 degree C, the altitude of operation = 5000m and whose output rated 52-57Vdc, min. 1 A complied LPS;
(2) an UL listed end-product suitable for using at Tma min. 50 degree C, the altitude of operation = 5000m and with "PoE" connector complied LPS and rated 52-57 Vdc, min. 1 A.*

If need further assistance with purchasing the power source, please contact to MicroTouch for further information.

Peripherals specification

MSR module

Item	Description
MT model number	MA-MSR-A1
Swipe speed	ISO standard card: 5-60 ips
Swipe direction	Bi-directional
Number of tracks	Reads up to 3 tracks (supports TDES encryption with DUKPT key management)
Power supply	+5VDC, +/-5%
Power consumption (typical)	7mA (maximum)
Interface	USB-C
Supported formats	ISO 7811, AAMVA, up to three tracks of magnetic encoding
Supported emulation modes	• Keyboard emulation mode • Uniform defined HID device mode (HID MSR)
Card width	3,375 x 2.125 in.
Supported operating systems	Android
Mounting	Directly to: • M1-215IC-AB2
Dimensions	111 x 39.5 x 36.7 mm
Gross weight	N/A
Net weight	N/A
Housing color	Black
Accessories	• Mylar pads x 2 • Screws x 2

Camera module

Item	Description
MT model number	MA-CAM-A1
Resolution	3264 x 2448 (8M) @15fps FHD 1920 x 1080 @30fps
OS support	Android
Compliance	RoHS, REACH
Module specification	
Dimension	111.3 x 68.1 x 18 (mm)
Net weight	N/A
Lens specification	
Lens composition	4 Plastic + IR Filter (5E)
Mechanical(M)	N/A
Diagonal (D)	75°
Horizontal (H)	63°
Vertical (V)	49°
IR wavelength (T50%)	N/A
Effective focal length (EFL)	N/A
TV distortion	N/A
F No.	2.2 ±5%
Focus Mode	Auto focus (AF)
Focus Distance	N/A
Focus Range	10 cm ~ ∞
Image Sensor Specification	
CMOS Image Sensor	1/4" 8M CMOS sensor
Active Array Size	3264 (H) x 2448 (V)
Pixel Size	1.12 um x 1. 1.2 um
Image Format Output	YUV, MJPEG
Electrical Specification	
Input Voltage	USB 5.0V ±250mV
Temperature Range	0°C ~ 55°C
Housing Color	Black
Accessories	• Mylar pads x 2 • Screws x 2

Barcode scanner

Item	Description
MT model number	MA-SCAN-A1
Barcode engine	Honeywell N4680
Resolution	640 x 480
FPS	120 (maximum)

Item	Description
Motion tolerance	6 m/s
Field of view	40° horizontal × 30° vertical
Symbol contrast	20%
Resolution 1D	3 mil
Standard+V11:W27d configuration	Presentation mode
Supported terminal modes	• USB HID Keyboard Mode • USB Serial Mode • HID POS Mode
Compatibility	Directly to: • M1-215IC-AB2
Illumination & aiming	3000K LED & 630 nm LED
Ideal scan distance	36 mm to 747 mm *Performance may be impacted by barcode quality and environmental conditions.
Supported formats	• 1D: Codabar, Code 11, Code 128, Code 2 of 5, Code 39, Code 93 and 93i, EAN/JAN-13, EAN/JAN 8, IATA Code 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, MSI, GS1 Databar, UPC-A, UPC E, UPC-A/EAN-13 with Extended Coupon Code, Coupon GS1 Code 32(PARAF), EAN-UCC Emulation, GS1 Data Bar • 2D: Codablock A, Codablock F, PDF417, MicroPDF417, Aztec Code, Data Matrix, Maxi Code, QR Code, Chinese Sensible(Han Xin) Code, DotCode, Grid Matrix • Postal Codes : Australian Post, British Post, Canadian Post, China Post, Japanese Post, Korea Post, Netherlands Post, Planet Code, Postnet
Viewing angle	40° horizontal × 30° vertical
Dimensions	101 x 41.7 x 68.4 mm
Operating temperature	-30°C to 60°C
Storage Temperature	-40°C to 70°C
Humidity	0% to 95% relative humidity, non-condensing, at 60°C
Housing color	Black
Accessories	• Mylar pads x 2 • Screws x 2

Light bar

Item	Description
MT model number	MA-LBAR-A1
Input connector type	USB-C
LED	Red (default), and RGB LED lights offer various color illumination. Please download SDK from Micro touch Support website for custom programming.
Input Voltage	5.0 VDC
Dimensions	101 x 36.7 x 23.7 mm
Compatibility	Directly to: • M1-215IC-AB2

Item	Description
Housing color	Black
Accessories	• Mylar pads x 2 • Screws x 2

Finger Printer

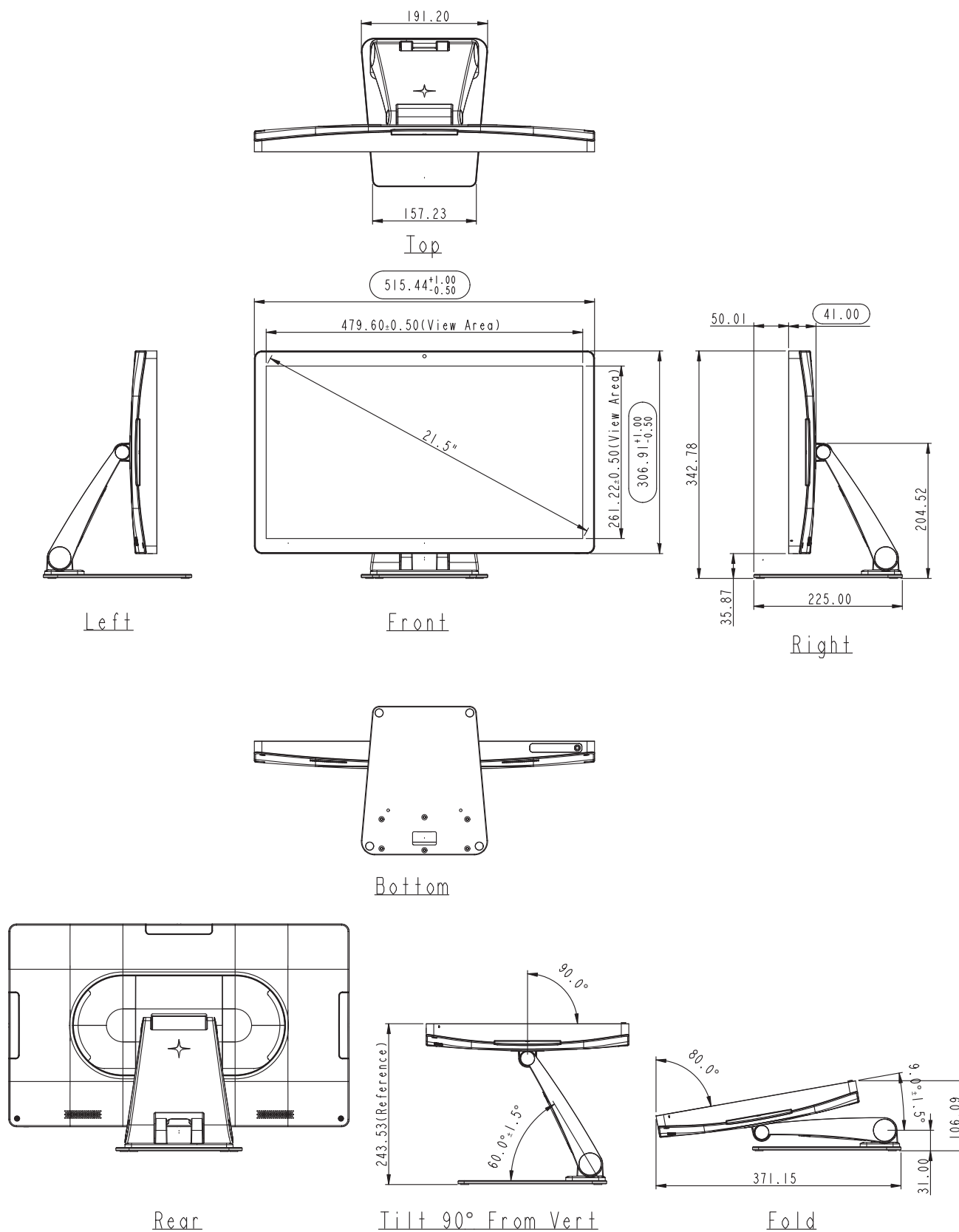
Item	Description
MT model number	MA-FPR-A1
Input connector type	USB-C
Input Voltage	5.0 VDC
Dimensions	60.2 x 32.4 x 11 mm
Compatibility	Directly to: • M1-215IC-AB2
Housing color	Black
Accessories	• Mylar pads x 2 • Screws x 2

Requirements for push-pull force

FRONT: >2kgf; BACK:>8kgf; BOTTOM:> 8kgf (Temporary, awaiting customer confirmation)

Dimensions

M1-215IC-AB2



Troubleshooting

This section describes some common problems that you may experience when using the device and provides some general guidelines and solutions for troubleshooting.

If the suggested solutions fail to resolve the problem, please contact your dealer or our service center.

Problem	Possible Solutions
Power LED does not turn on	• Ensure the power adapter is properly connected to the device and to the electrical outlet. • Ensure the pins of the power cord are not crooked or broken.
No image appears on the screen	• Ensure all the I/O connectors between the device and the computer are correctly and well connected. • Ensure the pins of the signal cables are not crooked or broken.
No audio	Adjust the sound level in the Settings  > Sound & vibration > Media volume menu.
The operating system is not responsive	• Restart the device. • Ensure the device has the latest updates. Tap Check for update in the Settings  > System > System update menu. Install all the latest updates. • Reset the device. Select Erase all data (factory reset) in the Settings  > System > Reset options menu.

Maintenance

The device does not require any routine maintenance other than occasional cleaning the areas of the device. We recommend cleaning every two weeks.

All the maintenance and repair should operate by a qualified, factory-trained technician.

Cleaning

Enclosure:

- Gently wipe all exterior surfaces with a soft, lint-free cloth dampened with distilled water.
- Please read and follow all instructions on the cleaning product label.
- Wipe the printed font on the device with distilled water.



NOTE:

Do not use the following products for cleaning the screen of the device:

- MEK (Methyl Ethyl Ketone)
- Toluene
- Acetone
- Benzene or thinner
- Acid
- Alkaline or abrasive detergents
- Chemical cleaning cloths

Equipment name: Microtouch All-In-One PC						
Type designation (Type): M1-215IC-AB2						
Component	Restricted substances and their chemical symbols					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr+6)	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
Plastic Parts	○	○	○	○	○	○
Metal Parts	-	○	○	○	○	○
Cable components	-	○	○	○	○	○
LCD Panel	-	○	○	○	○	○
Touch Panel	-	○	○	○	○	○
PCBA	-	○	○	○	○	○
Software	○	○	○	○	○	○


NOTE:

- "○" indicates that the percentage of the restricted substance does not exceed the permissible limit.
- "-" indicates that the restricted substance is exempt.



www.MicroTouch.com | www.usorders@microtouch.com

TES AMERICA LLC | 215 Central Avenue, Holland, MI 49423 | (616) 786-5353

The information presented in this user manual is intended as general information about MicroTouch products and is subject to change. Product specifications and warranties will be governed by TES America, LLC. Standard terms and conditions of sale. Products are subject to availability. Copyright © 2026 TES America, LLC. All rights reserved. Android is a trademark of Google LLC. Windows is a trademark of Microsoft Corporation in the United States and other countries.