acer

Air Monitor
AM100

User's Guide

First off...

Congratulations on your purchase of the Acer Air Monitor. It is a first, positive step in helping you improve your quality of life. This simple device monitors the air quality within its immediate surroundings.

The Air Monitor allows you to monitor five critical indicators of indoor air quality. These are:

- Temperature - This metric directly relates to comfort and mood.

- Humidity - Moisture leads to colds, flus, and risk of toxic mold formations.

- VOCs - Volatile Organic Compounds are toxic chemicals that can cause skin and respiratory irritation.

  Note: According to experimental studies, in regards to general indoor living environments, CO2 and TVOC (Total Volatile Organic Compounds) concentrations have a positive correlation, and can accurately represent the indoor air pollution index. Thus, we derive our CO2 equivalent (CO2eq) value from our TVOC measurement.

- Dust - PM2.5/PM10 (fine/coarse particulate matter) travels deep into our respiratory system and can trigger asthma, allergies and other related health problems.

Through visual indicators on the device, as well as more detailed information on the app, the Acer Air Monitor helps track and gives advice on how to improve the air quality, your health, and the health of the ones you care about.

Package contents

Make sure the following items are in your package. If anything is missing, contact your authorized dealer or distributor.
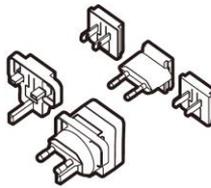
Air Monitor

Micro-USB cable

USB Power Adapter

Micro-USB extension Plug

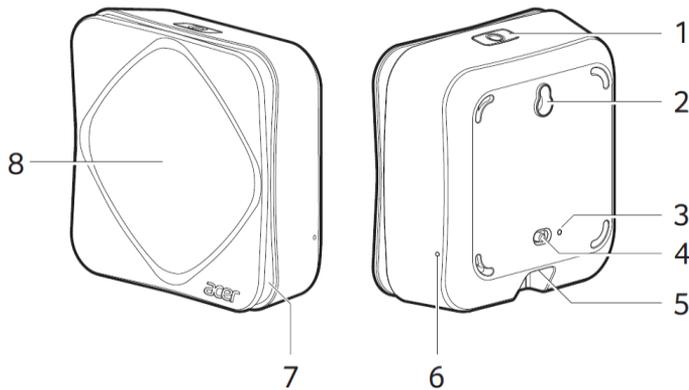A set of power adapter plugs

A set of Wall mounting screws

Quick guide

Safety guide

Warranty card

**Note:** Actual items might differ from illustrations.

A tour of the device

|	Item	Description
1	Function button & Light sensor	• Short press - Detect air quality immediately • Long press (5 secs), after the beep, immediately let go of the button - Reset Wi-Fi for configuration. The recorded Wi-Fi AP and password setting will be cleared
2	Wall-mounting hole	Used for hanging the device on a hook
3	Battery LED indicator	Shows the battery status: • Green - Battery is fully-charged • Red - Battery is charging • Off - power adapter not connected
4	Power switch	Turns the power on and off There is no power LED indicator
5	Micro-USB connector	Connects to the power adapter
6	Wi-Fi indicator	Shows the wireless connection status: • Green - Local Wi-Fi network and Acer Cloud connected • Red - Local Wi-Fi network connected only (device can not access internet or cannot connect to the Acer Cloud) • Off - Wi-Fi is not configured or device is disconnected from the Wi-Fi network
7	Air quality indicator	Lights up using different colors to show the current air quality.
8	Front panel	Detach to reveal the particulate matter sensor for maintenance

Getting started

Follow these steps:

1. Attach the appropriate power adapter plug to the USB power adapter.
2. Connect the micro-USB cable to the port on the Air Monitor. If necessary, attach the micro-USB extension plug first to the device before you connect the micro-USB cable.
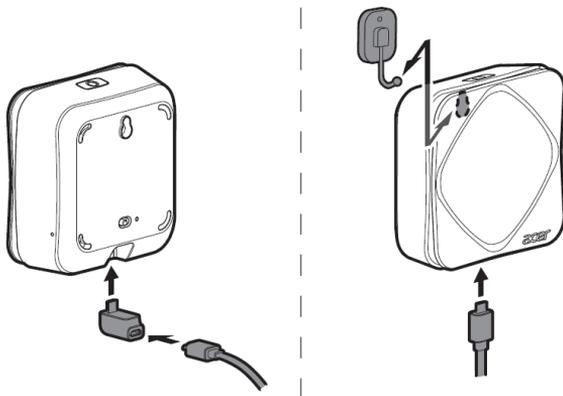
> **Note:** Air Monitor should be plugged in at all times, but it also has a built-in backup battery and can function for a limited time when power is cut off. Air Monitor should be placed in the room you want to monitor on a flat, stable surface with open air around it – preferably at the normal height level of your nose, such as on a bookshelf or a side table in the living room, or on a nightstand in a bedroom, as a few examples. The more open the placement, the better the air reading and Wi-Fi connection. For the backup battery, it can function for about 6 hours with a Wi-Fi connection. (without Wi-Fi connection, it can function for about 12 hours)

3. Slide the power switch to the left to turn on the Air Monitor.
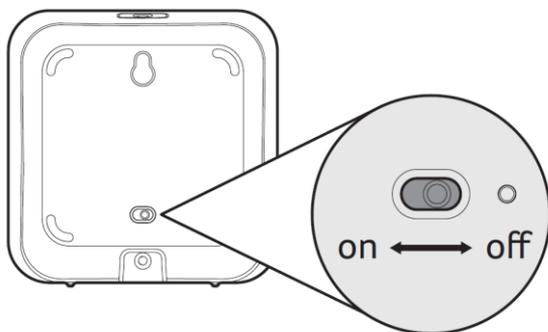
> **Note:** The air quality indicator will first cycle through the different colors and begin gathering data.

4. Download the Air Monitor app from either the iOS AppStore or the Google Play store.
   Note: Mobile system requirements:

   Android : Android 5.0 and above
   iOS : iOS 9.0 and above

Quick notes

- While on AC power, the device will perform measurements once every 10 seconds.

- The TVOC sensor requires around 5 minutes to stabilize.

- When the device first power on, the TVOC sensor will need 48 hours to do background auto-calibration.

- If device reboots, the Temperature & Humidity sensor will need 2 hours to become stable.

- The device will begin showing the air quality after 30 seconds.

- To get the current reading, press the function button for 1 second until you hear the tone.

- To get the most accurate data, please always place the Air Monitor such with the function-key facing up.

- Do not cover the light sensor or place the device in the shade in order to ensure the best experience.

Setting up the device

After you've turned on the device and downloaded the Air Monitor app, let's get started by setting up the required connections.

Air Monitor has two connection modes.

1. Bluetooth connection

Bluetooth connection is for local connections between the device and your mobile phone. You will not need to sign into an Acer account to establish the connection.

You can see the real time sensor data in the mobile app within the range of the Bluetooth connection.

One mobile phone can see multiple Air Monitors' sensor data through the Bluetooth connection. The number of Air Monitors a mobile phone can connect to will depend on the Bluetooth capability of the mobile device. We suggest a maximum of 8 Air Monitors to one mobile device. We suggest to set up an Air monitor in a 30 square meter space.

Please follow the steps below and the instructions shown on the mobile app to setup your Air Monitor.
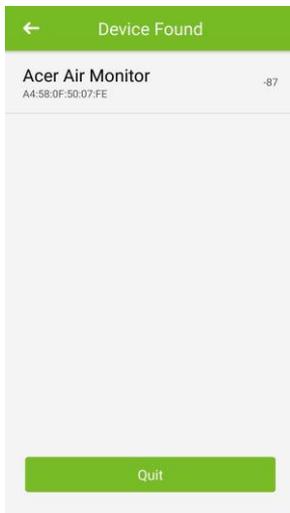
1. Enable Bluetooth on your phone.
   Note : The Bluetooth of Air Monitor will automatically be on stand by for potential connections; you won't need to turn on the Bluetooth manually.
2. Launch the Air Monitor app.
3. Tap the **Setup Device**
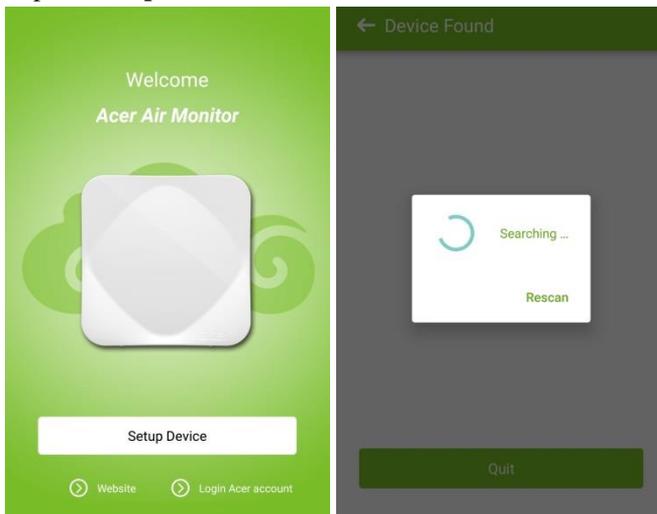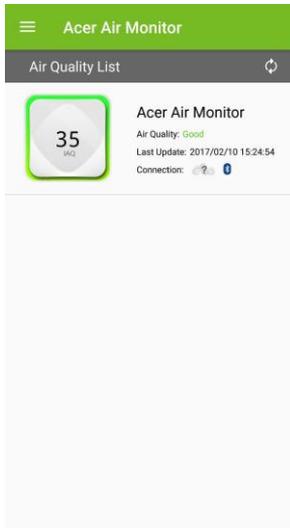

4. Tap the detected Air Monitor.

Note: If you have multiple Air Monitor devices, the app will list these by proximity, i.e., the closest to the furthest away.

5. Tap **Local only**.

6. You can now start setting up your Air Monitor.

The Bluetooth icon in the above diagram will turn blue. If Bluetooth connection is off, the Bluetooth icon will be in grey.

2. Acer Cloud connection through Wi-Fi

Login into / creating an Acer account enables 4 more features in comparison to the Bluetooth mode.

1. Remote monitoring feature, a mobile phone can see the Air Monitor's data remotely.

2. The Air Monitor will upload sensor data to Acer Cloud so a user can view historical sensor and map view data in the mobile app.

3. This mode also enables the IFTTT feature. If a user sets up an IFTTT applet with the Air Monitor through the IFTTT mobile APP, the IFTTT trigger will only enable in the Acer Cloud mode.

4. The upcoming Amazon Alexa Air Monitor Skill feature will only works if the Air Monitor connects to the Acer Cloud.

In this mode, the total number of mobile phone and Air Monitor in one Acer Cloud account is limited to 32.

Please follow the steps below and the instructions shown on the mobile app to setup and connect your Air Monitor to the Acer Cloud. You will also need to carry out these steps again if you change the Wi-Fi network that your Air Monitor connects to. If you encounter any connection problem, you may refer to the Help page in our app.

1. Your mobile phone still needs to connect to your Air Monitor by Bluetooth Connection. After you complete the Bluetooth connection, make sure you have Wi-Fi enabled on your mobile device.

2. Connect your mobile device to the same local Wi-Fi AP(Access Point) which you will make the Air Monitor connect to.
   Note: The Air Monitor only support 2.4G Wi-Fi network, it can NOT connect to 5G Wi-Fi network.

3. Tap the **Menu Icon**, Tap the **Device Center**,
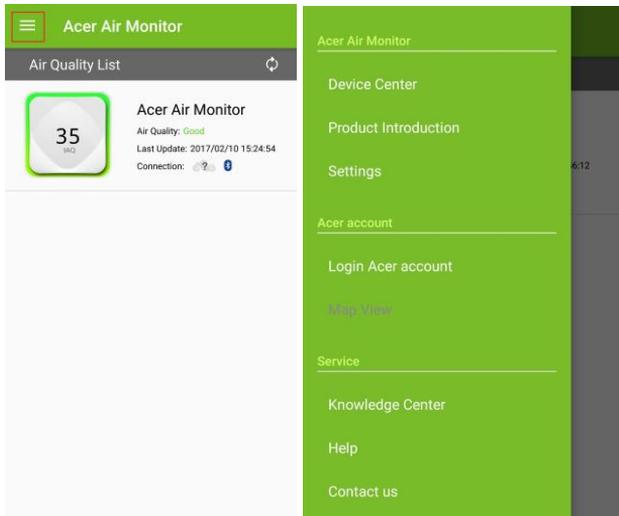
4. Tap the desired device, Tap on **Config Wi-Fi AP setting**.
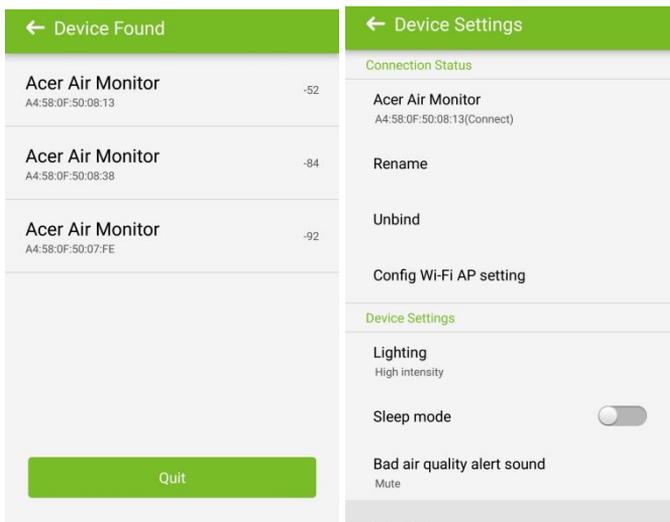
5. The Acer account login page will appear. If you do not have an Acer account, please register for one.

6. After completing registration, the Air Monitor **Wireless settings** page will appear.
7. You will see your local Wi-Fi AP name. After entering the password, the app will begin connecting the device to internet through the Wi-Fi AP and login the device to your Acer account.
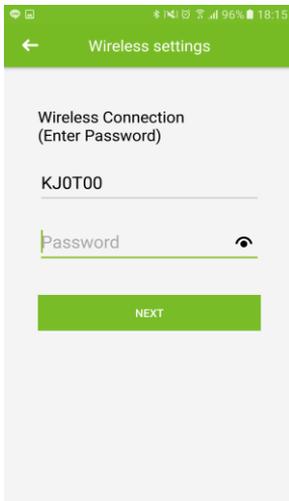
8. The Air Monitor will connect to your local Wi-Fi AP, and then it will connect to Acer Cloud through the Wi-Fi network to sign in to your Air Monitor.
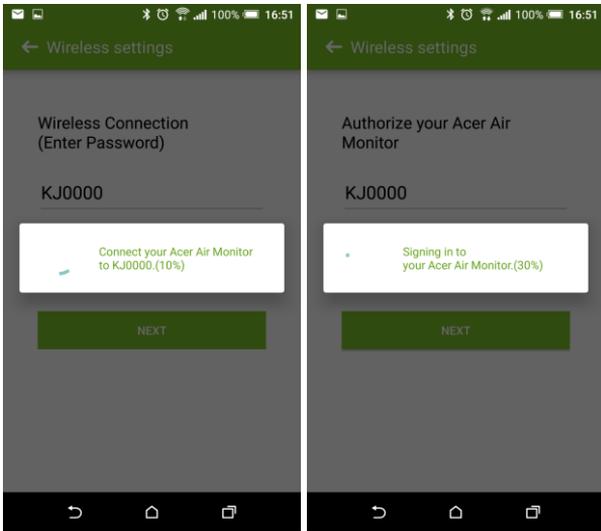
9. When the app and device have successfully linked to your Acer account, a congratulatory screen will appear and the device's Wi-Fi indicator will turn green.
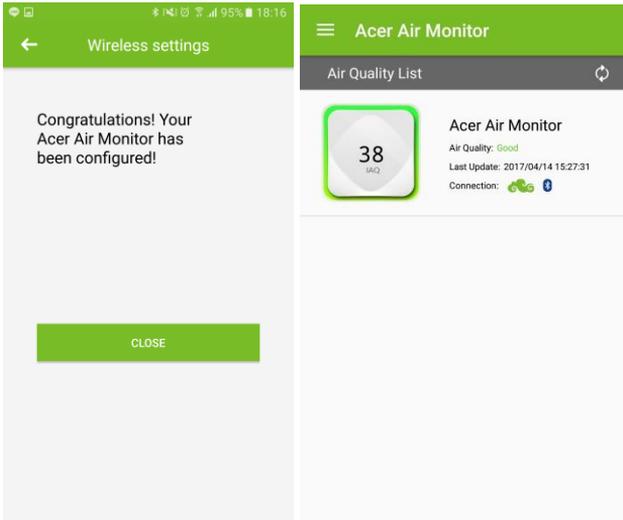
# Using the application

Upon launching the app, you will be greeted with the main screen, which displays a list of Air Monitor(s) connected to your app.

This screen gives you a quick glance into the indoor air quality index (IAQ) measurement as well as the connection status to your Acer account via Wi-Fi and via Bluetooth of each Air Monitor.

You may tap specific Air Monitors if you want to view more information or change their settings. This will bring you to the screen of the specific Air Monitor you selected showing that device's real-time indoor air quality index (IAQ), and other readings such as PM2.5, PM10, CO2eq, TVOC, humidity and temperature. The app will also show the ambient light level. The screen will re-fresh every minute.

The connection status to the device and to your Acer account will also be shown. More air quality information and suggestions will be listed on this screen as well.

Scroll down the screen to see historical data of the different measurements if the Air Monitor is in Acer Cloud connection mode. For example on temperature data, it provides Day/7Days/30Days views.
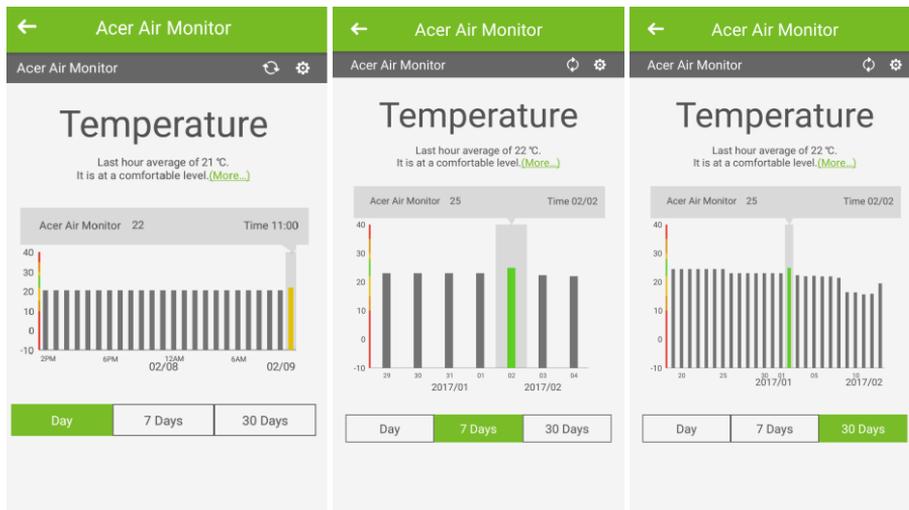
Note: if your Air Monitor doesn't connect to Acer Cloud you will not see the historical data.

Menu icon (▤)

The main screen is also where you can access the different settings and options by tapping on the menu icon (▤). The following options will be available:

Under Acer Air Monitor:

- Device Center

- Product Introduction

- Settings

Under Acer ID:

- Login/Logout

- Map View

Under Service:

- Knowledge Center

- Help

- Contact us

- About this APP

Device Center

To access the Device Center, tap the menu icon, then tap **Device Center** to view a list of the all connected Air Monitor(s).
You may tap a specific Air Monitor if you wish to view more information or modify settings.

This screen shows the following information:

Under...	Item	Description
Connection Status	Acer Air Monitor	Displays the MAC address and the connection status
	Rename	Sets a nickname for the device
	Unbind	Unbinds (disassociates) this device from the app and your Acer account. The product will be removed from the device list. The Wi-Fi settings and Bluetooth settings will be cleared.
	Config Wi-Fi AP settings	Sets the Wi-Fi connection and binds this device with the app and your Acer account
Device Settings	Manual Lighting	Manually set the intensity of the air quality indicator to high, low or off
	Sleep Mode	Sets the intensity of the air quality indicator to automatically adjust to either the ambient lighting, or to a preset sleep and wake-up time
	Bad Air Quality Alert Sound	Sets an alarm that sounds when a specified air quality level (e.g. unhealthy or very unhealthy) is reached
	Location	Sets the map location of the device
Device Software Update	Update now	Checks for and updates the firmware of the device Note: Device firmware upgrade includes Wi-F firmware upgrade and Bluetooth firmware upgrade. Please make sure the Air Monitor is

		connected to both Wi-Fi and Bluetooth. The air quality indicator will turn red during the firmware update process. When it is complete, you will hear a beep. It will take about 2 minutes for Wi-Fi firmware update through the Wi-Fi connection. It will take 10 or more minutes for firmware updates done with the Bluetooth connection.

Product Introduction

To view the Product Introduction, tap the menu icon, and then tap on **Product Introduction**. This will direct your phone's or tablet's browser to the product page of the Acer Air Monitor.

Settings

To access the Settings menu, tap the menu icon, and then tap **Settings** to adjust certain settings of the app, such as the temperature display unit and push notifications.

Login/Logout Acer account

To log in or out, tap the menu icon, then tap **Login Acer account** to create or log in to your Acer account in order to bind your Air Monitor to your account. If you are logged in, you can also log out from this screen.

Map View

To access Map View, tap the menu icon, and then tap **Map View** to show the map locations of the Air Monitor(s) bound to your account.

> **Note:** You must set the location for each Air Monitor for it to appear in the Map View. For further instructions please see **Device Center** section of the manual.
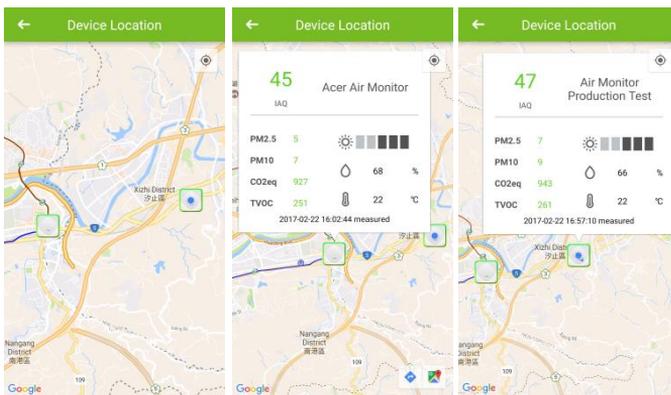
Knowledge Center

To view the Knowledge Center, tap the menu icon, and then tap **Knowledge Center** to access the built-in database which will help you understand various air quality concepts and measurements.

Help

For Help using Air Monitor, tap the menu icon, then tap **Help** to view helpful information regarding the device. This useful question-and-answer section gives you quick answers and solutions to the app and device usage.

Contact us

For Acer contact information, tap the menu icon, and then tap **Contact us**.

About this APP

For more detailed information regarding the APP, tap the menu icon, and then tap **About this APP**.

Note:

• For IFTTT & Amazon Alexa features, please refer to the additional manuals. You can get them from **http://home.cloud.acer.com/airmonitor/spec/**

Understanding the Air Quality indicator

The air quality indicator lights up to show the current air quality using specific defined colors for each air quality level.
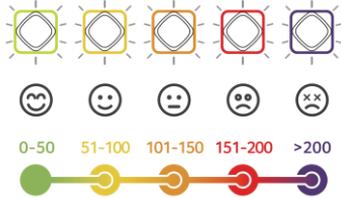
Refer to the table below for a quick description of these lights:

| Color	Reading	Description
Green	0-50	Good
Yellow	51-100	Moderate
Orange	101-150	Unhealthy for sensitive groups
Red	151-200	Unhealthy
Purple	> 200	Very Unhealthy

Note: You can set the light intensity of the air quality indicator manually or automatically. See **Device Center** section of the manual for more information.

Taking care of your device

The optical glass of the particulate matter sensor may require cleaning once every six months for optimum performance.

To clean the optical glass:

2. Prepare a cotton swab.
2. Detach the front cover.
4. Use the cotton swab to clean the sensor.
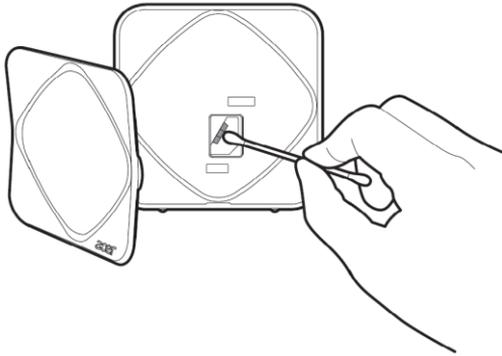
4. Reattach the front cover.

Frequently Asked Questions (FAQs)

For frequently asked questions, please reference the app for found on your device for details.

General Safety information

- Never inject gases, pollutants, or blow smoke/fumes directly towards the device. Exposure to an excess of pollutants may permanently damage the sensors.

- Never use the Air Monitor:
  - Under conditions of extreme temperature or humidity
  - Outdoors
  - Near potted plants
  - In a dusty environment, such as a building with ongoing renovations
  - Close to silicone-based glue or any product releasing silicone fumes

- Never place the Air Monitor:
  - Near heat or flames
  - In/under/next to liquids
  - With anything on top of it or covering it
  - Inside a closet or drawer
  Misuse can cause burns, fire, electrocution, and other hazards.

- Never clean the Air Monitor with the following:
  - Water or spray
  - A feather duster
  - A vacuum cleaner

- Do not open the device or make modifications to it as it will void the warranty.

- Do not use the device if it has any damage or isn't working properly.

- Do not plug/unplug the device frequently.

- Use only accredited accessories.

- Unplug the device when unused for long periods of time.

- Do not block any ventilation openings.

Specifications

Power

- Voltage range/frequency: 100~240V AC, 50/60 Hz
- DC output: 5V/1A

Battery

- Built-in, rechargeable, non-replaceable, Lithium-Ion polymer

Connectivity

- Bluetooth 4.0 LE
- Wireless LAN 802.11 b/g/n 2.4GHz
- This radio equipment operates with the following frequency bands and maximum radio-frequency power:
  - Bluetooth: <20dBm
  - 802.11bgn: <20dBm

Sensor

- Particulate Matter
- TVOC
- Temperature
- Relative Humidity
- Ambient Light

Operating Temperature

- 5℃~40℃