



acer



Air Monitor

AM100/AM110 User's Guide

First off...

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

The Air Monitor allows you to monitor six 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.
- Particulates - PM2.5/PM10 (fine/coarse particulate matter) travels deep into our respiratory system and can trigger asthma, allergies and other related health problems.
- CO₂ - Carbon dioxide content in the fresh air is typically measured around 400 PPM (Parts Per Million), depending on the location. People in a high CO₂ environment will feel drowsy, dizzy, have headaches, and experience hearing and visual dysfunction. It may also cause unresponsiveness and decision delay.

The CO₂ value of AM100 is a CO₂ equivalent (CO₂eq) value, derived from the TVOC measurement and represent as CO₂ equivalent value or CO₂eq. However, the updated AM110 model is equipped with a CO₂ sensor and does not use this equivalent value.

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, the AM100 model derives its CO₂ equivalent (CO₂eq) value from its TVOC measurement.

To verify your Air Monitor model, please check the label located on the back of the Air Monitor. The user manual is based on the latest Air Monitor firmware and App version; please follow the user manual to operate it.

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

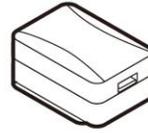
Make sure the following items are in your package. If anything is missing, contact your authorized dealer or distributor.



Air Monitor



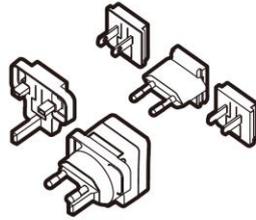
Micro-USB cable



USB Power Adapter



Micro-USB
extension Plug



A set of power
adapter plugs



A set of Wall
mounting screws



Quick guide



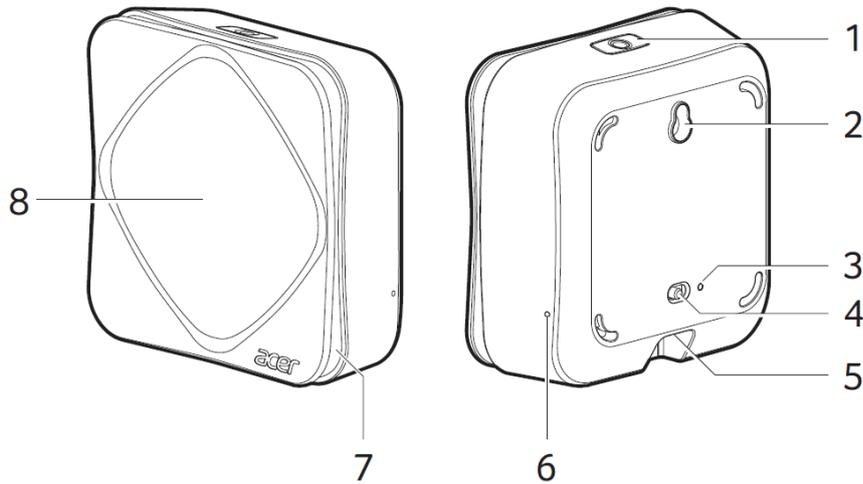
Safety guide



Warranty card

Note: Actual items might differ from illustrations.

A tour of the device

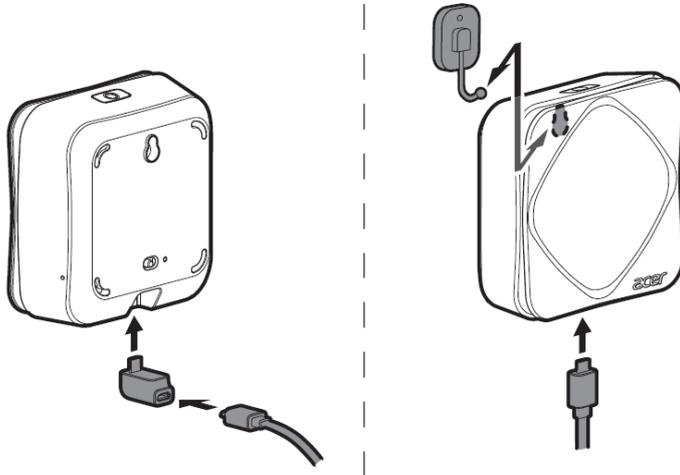


	Item	Description
1	Function button & Light sensor	<p>Function button :</p> <ul style="list-style-type: none"> • Short press - Detect air quality immediately • Long press (5 secs), after the beep, immediately let go of the button - Reset Wi-Fi for reconfiguration. The saved Wi-Fi AP and password setting will be cleared <p>Light sensor :</p> <p>The button is also the light sensor for detecting your environmental brightness. While the Sleep mode is enabled (setup in App), The air quality ambient light will switch on/off automatically according to the environmental brightness.</p>
2	Wall-mounting hole	Used for hanging the device on a hook
3	Battery LED indicator	<p>Shows the battery status:</p> <ul style="list-style-type: none"> • Green - Battery is fully-charged • Red - Battery is charging • Off - power adapter not connected
4	Power switch	Turns the power on and off
5	Micro-USB connector	Connects to the power adapter
6	Wi-Fi indicator	<p>Shows the wireless connection status:</p> <ul style="list-style-type: none"> • Green - Local Wi-Fi network and Acer Cloud connected • Red - Wi-Fi is configured. However, device is disconnected from the Wi-Fi network, and/or has a limited connection to the local Wi-Fi network (device cannot access internet or cannot connect to the Acer Cloud) • Off - Wi-Fi is not configured.
7	Breathing LED light	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

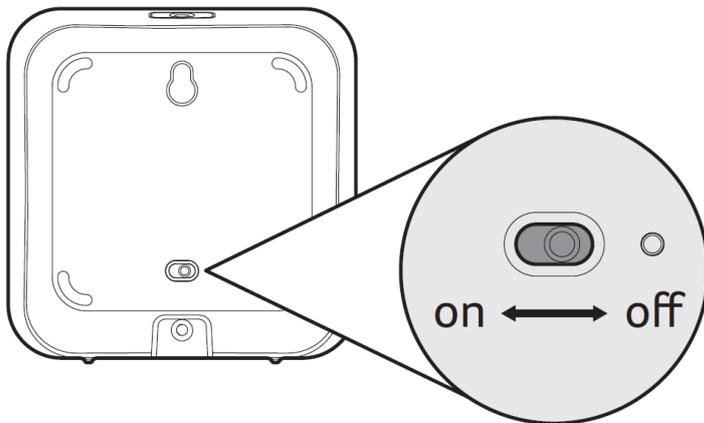
Follow these steps:

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 breathing LED light will first cycle through the different colors and begin gathering data.
- To get the most accurate data, please always place the Air Monitor such as the function key is facing upwards
- Do not cover the light sensor or place the device in the shade in order to ensure the best experience.
- Warming up Air Monitor: each time you power on your Acer Air Monitor, the TVOC sensor will need about 5 minutes to warm up. During this time, please put it in an area with adequate air circulation (such as near a window) to ensure accurate results. Further, the temperature and humidity sensors will need approximately 60 minutes to warm up for the most accurate results.

4. Download the Air Monitor app from either the iOS App Store or the Google Play store.

Note: Mobile system requirements:

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

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

The 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.

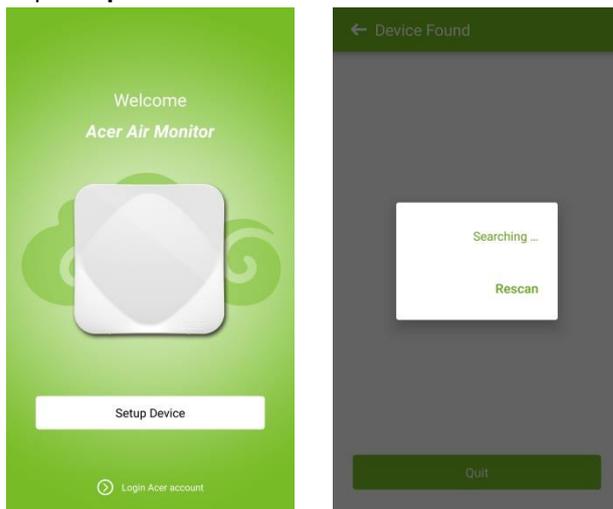
One mobile phone can see multiple Air Monitors' sensor data through the Bluetooth connection. The number of Air Monitors a mobile phone can connect to will depend on the Bluetooth capability of the mobile device. We suggest a maximum of 8 Air Monitors to one mobile device. We suggest setting up an Air Monitor for every 30 square meters of 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 standby for potential connections; you won't need to turn on the Bluetooth manually.

2. Launch the Air Monitor app.
3. Tap **Setup Device**

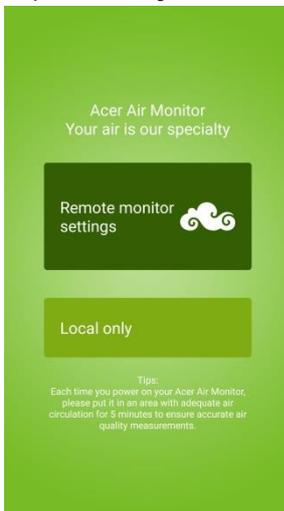


4. Tap the detected Air Monitor.

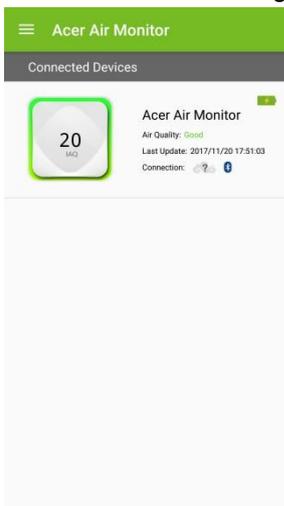


Note: If you have multiple Air Monitor devices, the app will list these by proximity, i.e., from the closest to the furthest away.

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 the Bluetooth connection is off, the Bluetooth icon will be greyed out.

2. Acer Cloud connection through Wi-Fi

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

1. Remote monitoring feature, allowing a mobile device to see the Air Monitor's data remotely.
2. The Air Monitor will upload sensor data to the Acer Cloud so a user can view historical sensor or map data in the mobile app.
3. This mode also enables the use of IFTTT. If a user sets up an IFTTT applet with the Air Monitor through the IFTTT mobile APP, the IFTTT trigger will only be enabled while connected to Acer Cloud.
4. The Amazon Alexa Air Monitor Skill will only work while Air Monitor is connected to the Acer Cloud.

In this mode, the total number of mobile devices and Air Monitors which can be assigned to one Acer Cloud account is limited to 32.

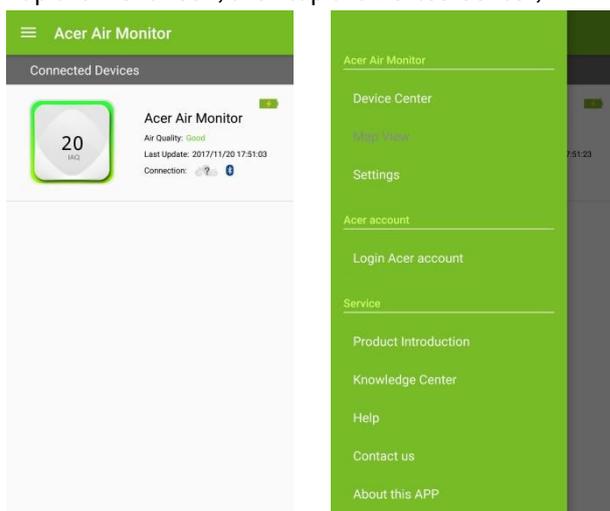
Please follow the steps below and the instructions shown on the mobile app to setup and connect your Air Monitor to the Acer Cloud. You will also need to carry out these steps again if you change the Wi-Fi network that your Air Monitor connects to. If you encounter any connection problems, you may refer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

For Wi-Fi settings, the setup procedure of Android systems and iOS systems will differ slightly.

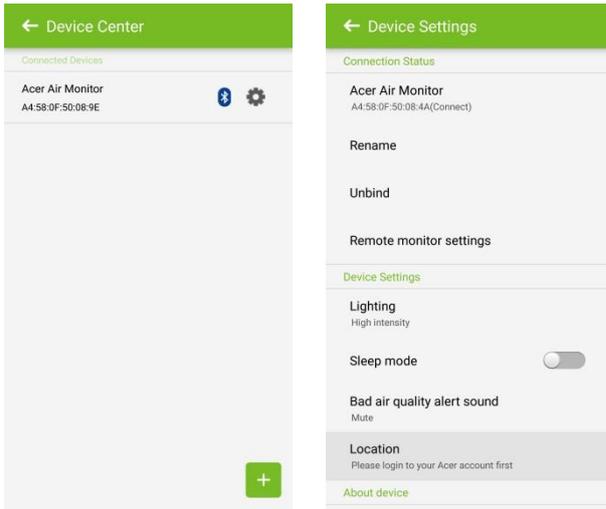
Setting Up Android:

1. Your mobile phone still needs to be connected to your Air Monitor via 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) as the Air Monitor.
Note:
 - a. The Air Monitor only supports 2.4G Wi-Fi networks, it can NOT connect to 5G Wi-Fi networks.
 - b. The Air Monitor does NOT support hidden SSIDs.

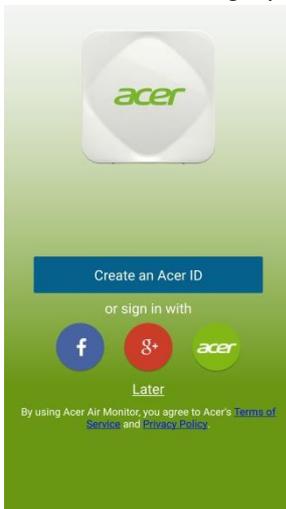
3. Tap the **Menu Icon**, then tap the **Device Center**,



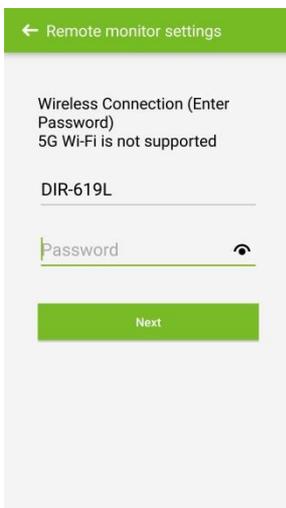
4. Tap settings icon on the desired device, then tap **Remote monitor settings** on Device Settings page.



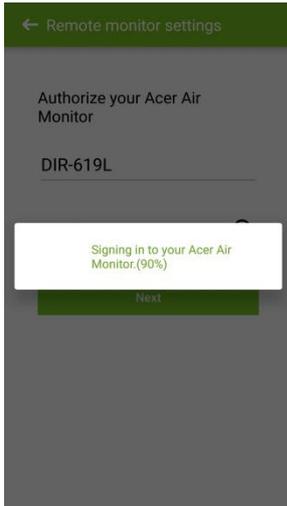
5. The Acer account login page will appear. If you do not have an Acer account, please register for one.



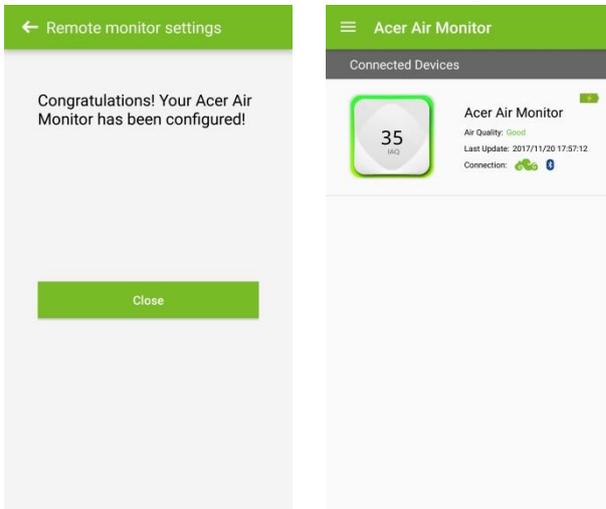
6. After completing registration, the Air Monitor **Wireless settings** page will appear.
7. You will now see your local Wi-Fi AP name. After entering the password, the app will begin connecting the device to internet through the Wi-Fi AP and login the device through your Acer account.



8. The Air Monitor will connect to your local Wi-Fi AP. It will then connect to the 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.



Setting Up iOS:

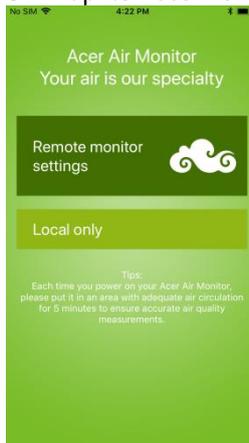
1. Please launch the App and Tap **Setup Device**



2. Select the detected Air Monitor. (If you have multiple Air Monitor devices, the app will list these by proximity, i.e., from the closest to the furthest away.)



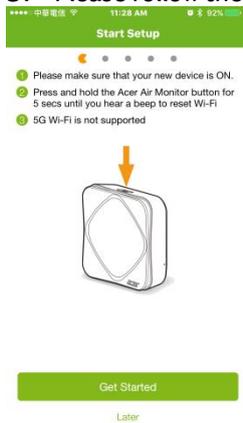
3. Tap **Remote Monitor Settings**



4. If you do not have an Acer account, please register for one and proceed to sign in



5. Please follow the instruction listed on the Start Setup screen and then tap **Get Started**

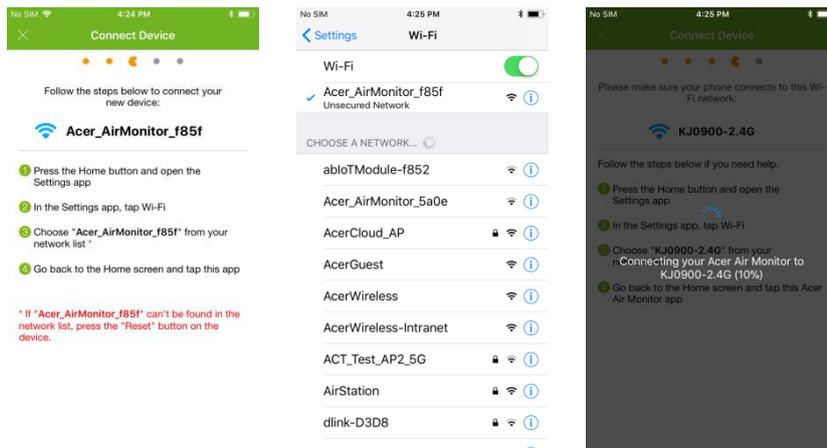


6. You will see your local Wi-Fi AP name, please enter the password and tap **Connect**.



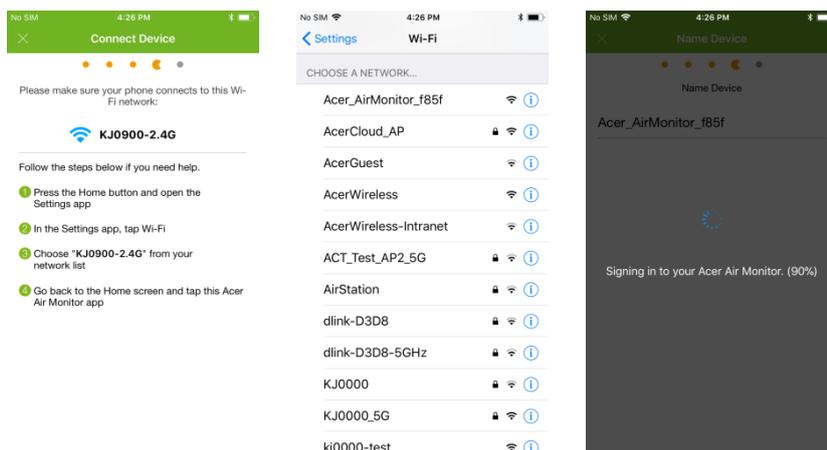
7. To connect your Air Monitor to your Wi-Fi AP

Please go to your **iPhone's Wi-Fi setting** and select the Wi-Fi name similar to "Acer_AirMonitor_XXXX" in the list. Return to the **Air Monitor app** and the Air Monitor will have connected to your local Wi-Fi AP.

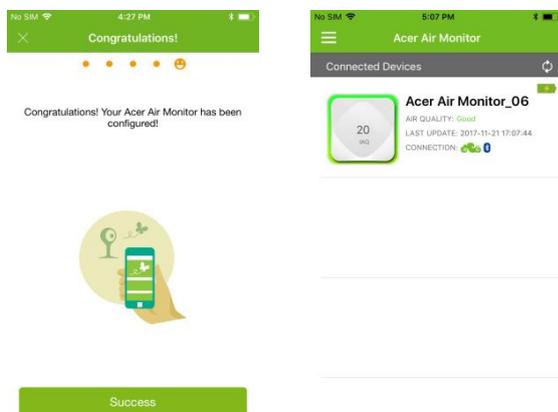


8. To Connect your phone back to your local Wi-Fi network:

Please go to your **iPhone's Wi-Fi setting** and select your local Wi-Fi name in the list. Return to the **Air Monitor app** again. Your phone will now connect to the 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 the Wi-Fi and Bluetooth connections of each Air Monitor.

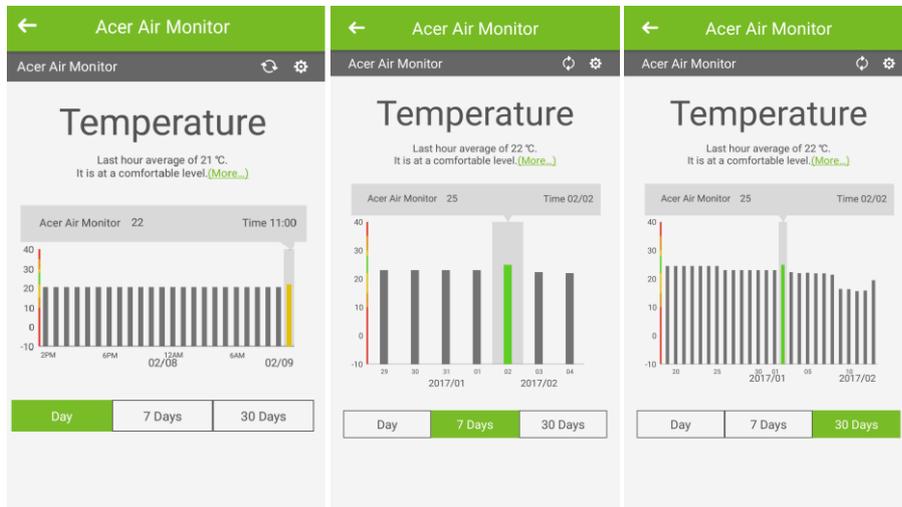
Icon Statuses:

Icon and Status		Description
Bluetooth connection status		Device is not connected to mobile phone via Bluetooth
		Device is connected to mobile phone via Bluetooth
Wifi and cloud connection status		Device has not setup Wi-Fi
		Device is not connected to Acer cloud
		Device is connected to Acer cloud via Wi-Fi connection
Battery status		Device is charging.
		Current device battery level while device in not charging
		Battery status is not accessible
New firmware notification		When there is a  icon on Air Monitor, new Bluetooth firmware is available to download.
		The Bluetooth firmware is up to date.

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, CO2 (AM110)/CO2eq (AM100), 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 has been finished the Wi-Fi settings before. Temperature data, for example, provides Daily/7 Days/30 Days views.



Note: If your Air Monitor has not been finished W-Fi settings, you will not be able to access 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
- Map View
- Settings

Under Acer ID:

- Login/Logout

Under Service:

- Product Introduction
- 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 all the connected Air Monitors.

You may tap a specific Air Monitor if you wish to view more information or modify settings.

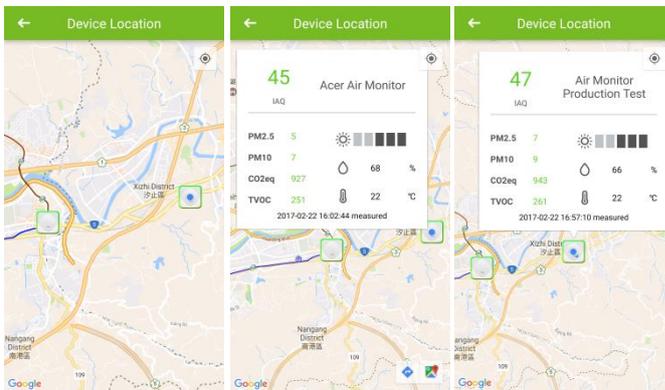
This screen shows the following information:

Under...	Item	Description
Connection Status	Acer Air Monitor	Displays the MAC address and the connection status.
	Rename	Sets a name 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.
	Remote monitor 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 breathing LED light to high, low, or off.
	Sleep Mode	There are two ways sleep mode will automatically turn the breathing LED light on or off: 1. By having preset the device's sleep and wake-up time, or 2. By detecting the environmental brightness in the room. When the brightness level is darker than your light sensor setting, the breathing LED light will be turned off automatically. There are 10 levels for the light sensor setting, with the 1 st level being the darkest threshold, and the 10 th level being the brightest.
	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.
	Broadcast URL setting	Broadcast customized content (using Eddystone format as a beacon). You can give a specific URL to broadcast as a beacon. Note. 1. Please make sure your Air Monitor is connected to a Wi-Fi network. The Broadcasted URL will be usable for 30 minutes. 2. The device air quality option and group air quality option are only available for Business solution.
About device	Model number	Show model name of device.
	Upgrade firmware	Checks for and updates the firmware of the device. Note: Device firmware upgrade also includes Wi-Fi and Bluetooth firmware upgrade. Please make sure the Air Monitor is connected to both Wi-Fi and Bluetooth. The breathing LED light will turn red during the firmware update process. When it is complete, you will hear a beep. It will take about 2 minutes for the Wi-Fi firmware to update through the Wi-Fi connection. It will take 10 or more minutes for firmware updates to be done with the Bluetooth connection.

Map View

To access the 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 the **Device Center** section of the manual.



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.

Logging into/Logging out of your Acer account

To log in or out of your Acer account, 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.

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.

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, and 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

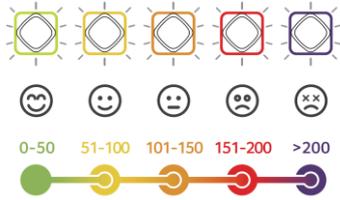
For more detailed information regarding the APP, tap the menu icon, and then tap **About this APP**.

Note:

- For more information regarding the IFTTT & Amazon Alexa features, please refer to the additional manuals found at <http://home.cloud.acer.com/airmonitor/#specs>

Understanding the breathing LED light

The breathing LED light 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

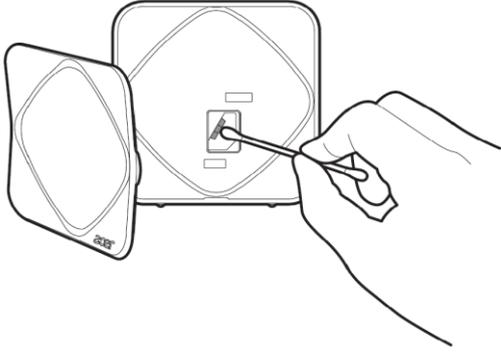
Note: You can set the light intensity of the breathing LED light manually or automatically. See the **Device Center** section of the manual for more information.

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:

1. Prepare a cotton swab.
2. Detach the front cover.
3. Use the cotton swab to clean the sensor.



4. Reattach the front cover.

Frequently Asked Questions (FAQs)

For frequently asked questions, please refer to our website (<http://home.cloud.acer.com/airmonitor/#qaa>)

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 drawerMisuse 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
- CO2 (Only for AM110 model)

Operating Temperature

- 0°C~45°C