

# AI-2002W

## Indoor Air Quality Detector

### User Manual

07-2018 / v2.0

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## *I     Safety Information*

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For effective sensing and retrieval of environmental data, please install the unit with the safety restrictions outlined below:

- Must be in locations with good air circulation.
- Must be positioned for proper air intake to achieve cross ventilation.
- The air inlet must be kept clear and should be rechecked regularly.
- Must be in locations close to a power supply and has good Wi-Fi internet signal capable of connecting to the Internet 24 hours a day, 7 days a week.
- Must not be installed in locations that are subject to extremes of humidity or temperature such as near fire or other heat sources.
- Must not be installed in locations directly exposed to sunlight or reflected light source.
- Must not be installed in corrosive environments such as in environments with salty, acidic or basic air, or places with storage of corrosive liquids.
- Do not inject gas, contaminants, or smoke directly into the unit, or install the unit in a location prone to the aforementioned actions.

Unable to follow the above-mentioned guideline may reduce machine lifetime.

## II Product Information

### II-1 Package Content



**Air Quality Detector**



**Device Stand**



**Quick Installation Guide**



**Power Adapter (12V/1A)**



**CD with User Manual**

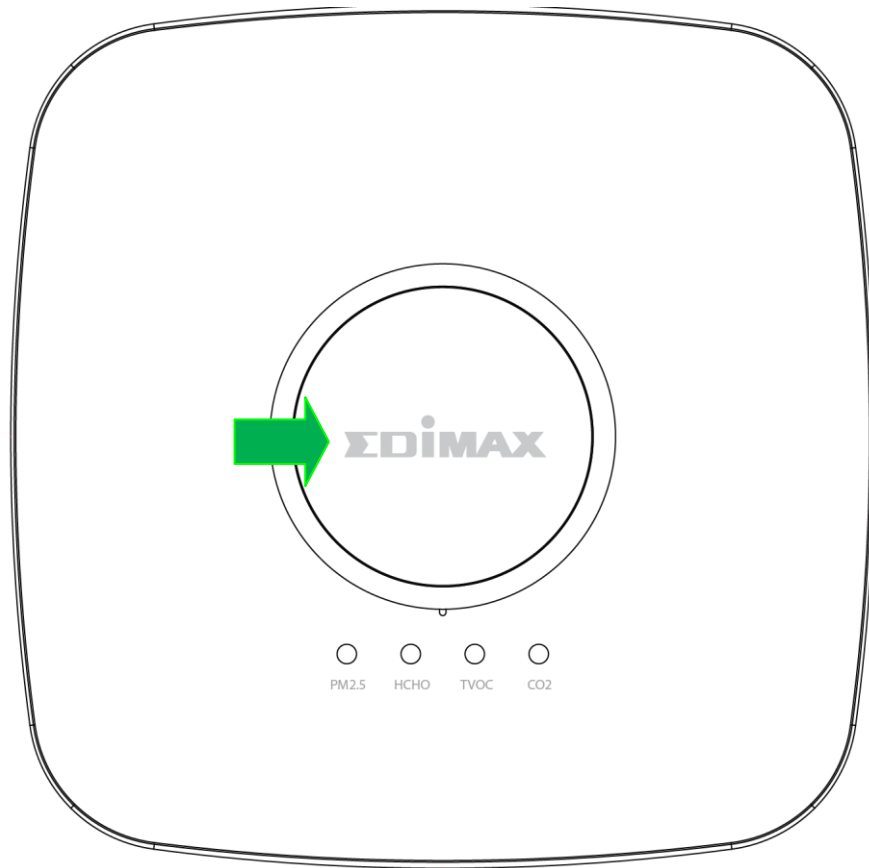
### II-2 LED Indicator

LED	Color	LED Status	Description
System Status	Red	Flash	Waiting to be wirelessly paired
		On	Device is booting up
	Green	Flash	Wi-Fi is operational but not connected
		On	Wi-Fi setup successful
	Blue	On	Device connected to the Internet
PM2.5 HCHO TVOC CO <sub>2</sub>	Green	On	Air quality: Good
	Yellow		Air quality: Moderate
	Orange		Air quality: Unhealthy for Sensitive Groups
	Red		Air quality: Unhealthy
	Purple		Air quality: Hazardous
Consolidated Air Quality	Green	On	Consolidated air quality: Good
	Red		Consolidated air quality: Unhealthy

## Turning LED On / Off

Air quality LEDs and consolidated air quality LED can be turned on or off. By default, the LEDs are turned on.

To turn on / off the LEDs, press and hold the center button for 5 seconds.



**System Status LED will always be on (flashing or stayed on) when the unit is powered.**

### III Installation

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This section will guide you through the steps to connect your air quality detector to the Internet.



iOS



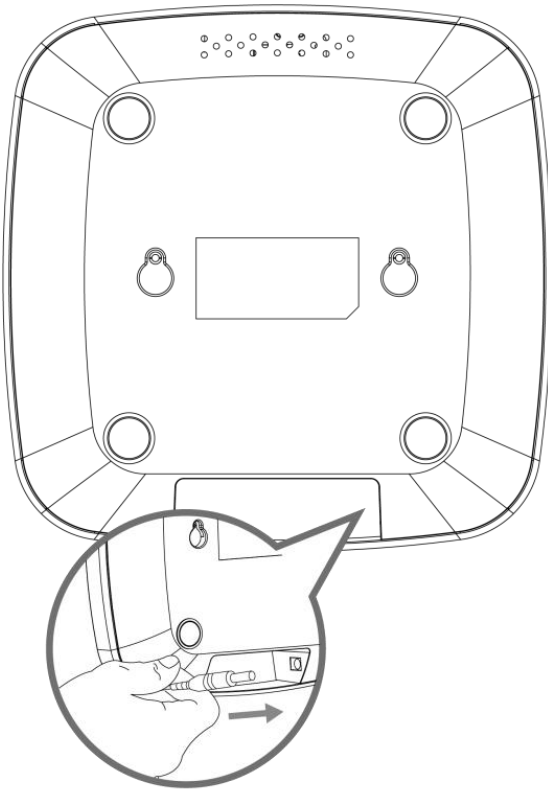
Android



1. Search and download "EdiGreen Home" in **Apple App Store** or **Google Play**.

Alternatively, scan the QR code on the left (choose your device's OS correctly).

2. Please connect the power adapter to the unit (demonstrated on the left) and a power socket.



3. Please wait a moment for the device to boot up. Proceed to the Internet connection procedure when the System Status LED starts flashing in Red.

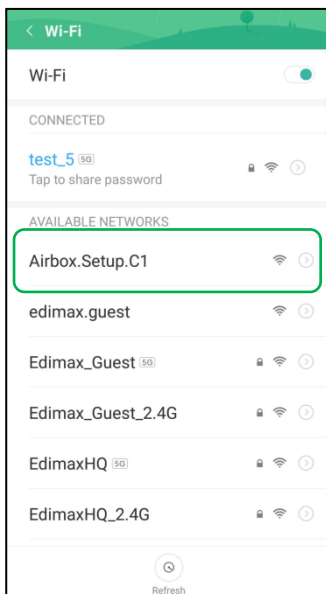
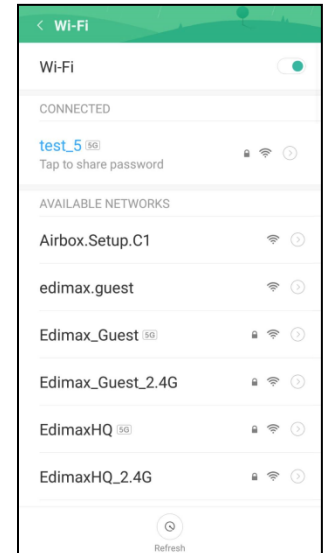
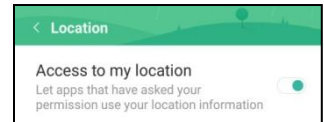


**For Internet connection procedure, please follow the instructions below according to your mobile device (III-1 Android OS or III-2 iOS).**

## III-1 Android OS

Please make sure...

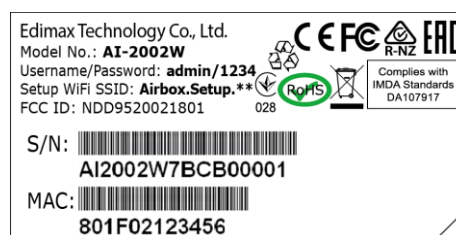
- A. "Access to my location" is turned on.
- B. Your mobile device is able to connect to your home's Wi-Fi network (such as the "test\_5" network shown on the right) or whichever network you anticipated the detector to connect to. Please make sure this network has internet connectivity.



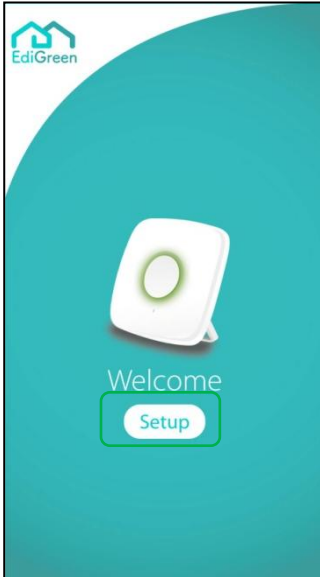
1. Before starting the **EdiGreen Home** App, go to your mobile device's Wi-Fi settings and connect to the Wi-Fi SSID of your detector (**AirBox.Setup.\*\***).



Please find the unique SSID of your detector on the product label. The final 2 digits **\*\*** of the SSID "Airbox.Setup.\*\*" is the final two digits of the detector's MAC address.








2. Open the **EdiGreen Home** App.
3. Tap "Setup".

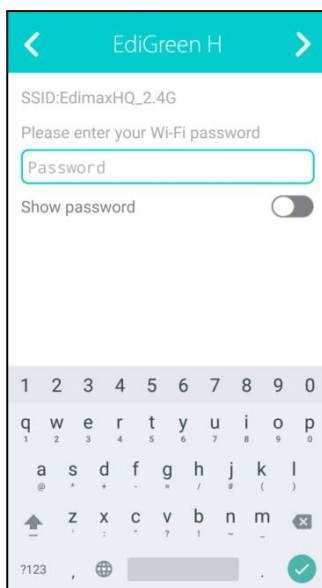



4. The app will start searching for available Wi-Fi network for the detector.

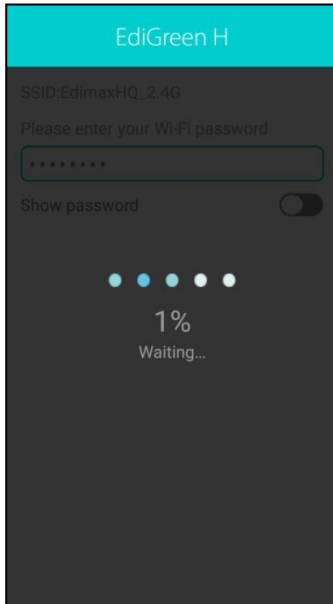


If you cannot find the desired Wi-Fi network SSID, tap  to refresh network list. Alternatively, tap "Connect to a hidden network" to manually connect to the desired Wi-Fi network.

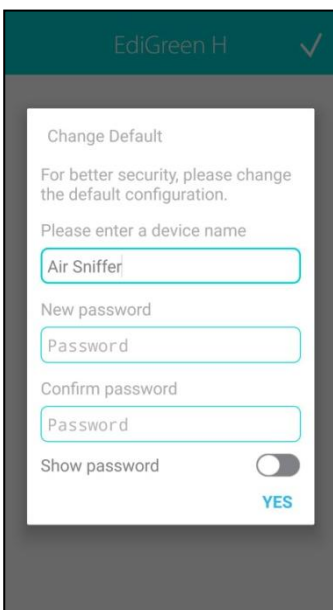
5. Tap the desired Wi-Fi network.



6. Enter the Wi-Fi network password and tap  to continue.

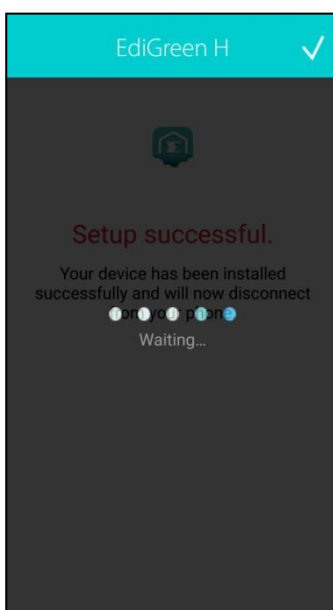


Please wait a moment for the setup process.

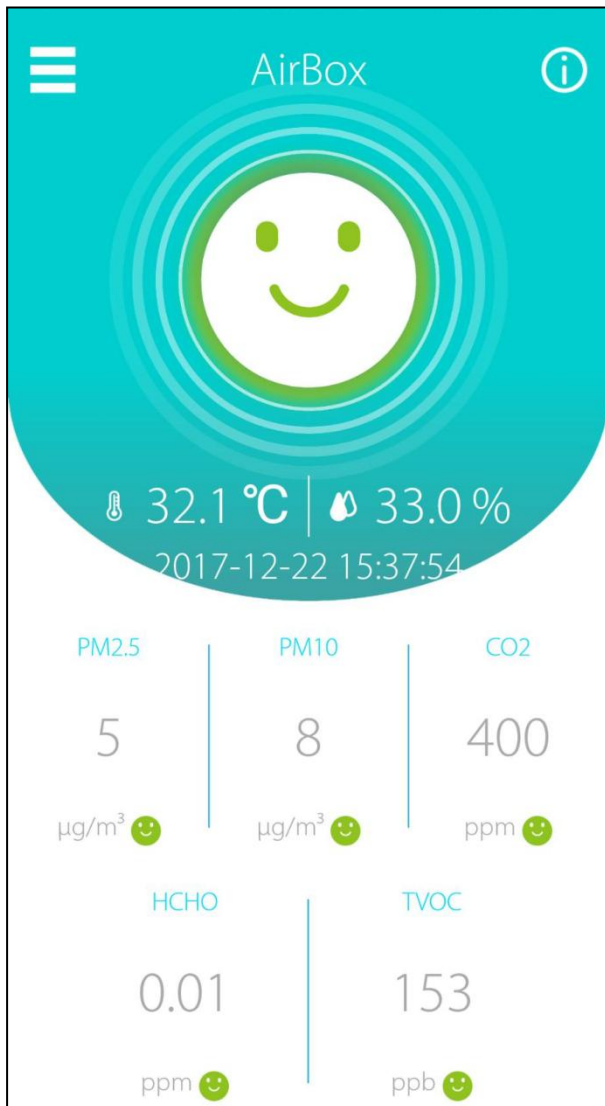


7. Enter a device name, password, and confirm the password.

8. Tap "Yes" to continue.



Setup Complete! Please wait a moment for the app to take you back to its home screen.



Congratulations! Your air quality detector is up and running!

The home screen is as shown on the left.

The system status LED should be turned on in **blue**.

Now you are able to monitor the air quality near your unit with your mobile device anywhere (as long as you have access to the Internet).

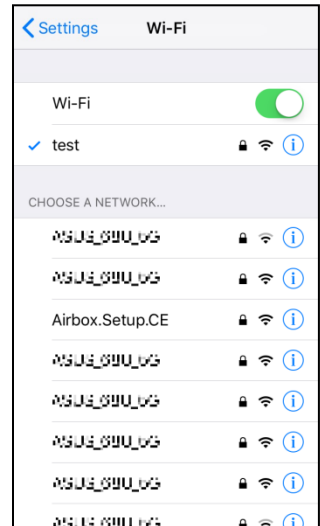
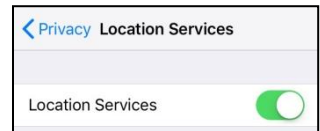


**CO<sub>2</sub> and TVOC sensors require up to 72 hours to self-calibrate after the installation.**

## III-2 iOS

### Please make sure...

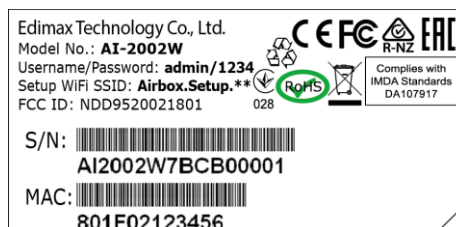
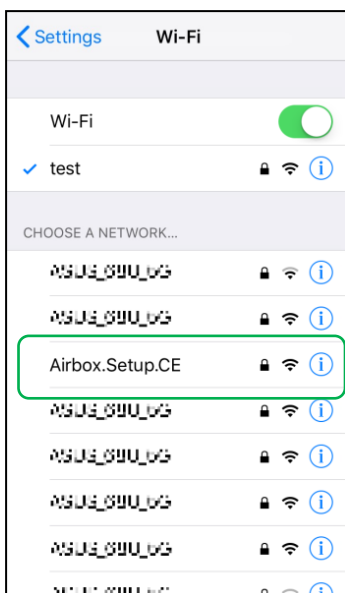
- A. "Access to my location" is turned on.
- B. Your mobile device is able to connect to your home's Wi-Fi network (such as the "test" network shown on the right) or whichever network you anticipated the detector to connect to. Please make sure this network has internet connectivity.

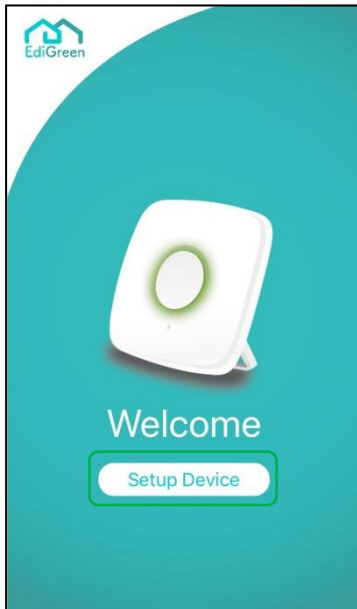


1. Before starting the **EdiGreen Home** App, go to your mobile device's Wi-Fi settings and connect to the Wi-Fi SSID of your detector (**AirBox.Setup.\*\***).



Please find the unique SSID of your detector on the product label. The final 2 digits **\*\*** of the SSID "**Airbox.Setup.\*\***" is the final two digits of the detector's MAC address.







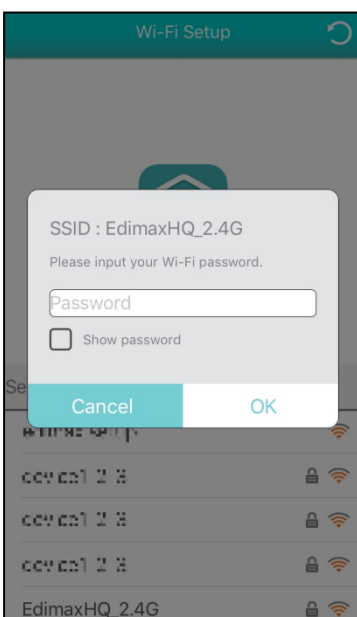
2. Open the **EdiGreen Home** App.
3. Tap "Setup Device".



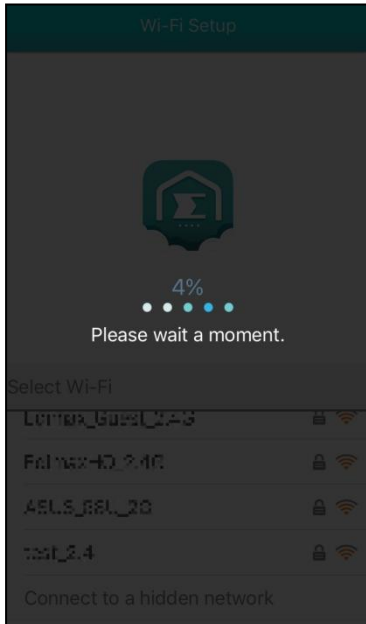
4. The app will start searching for available Wi-Fi network for the detector.

If you cannot find the desired Wi-Fi network SSID, tap  to refresh network list. Alternatively, tap  "Connect to a hidden network" to manually connect to the desired Wi-Fi network.

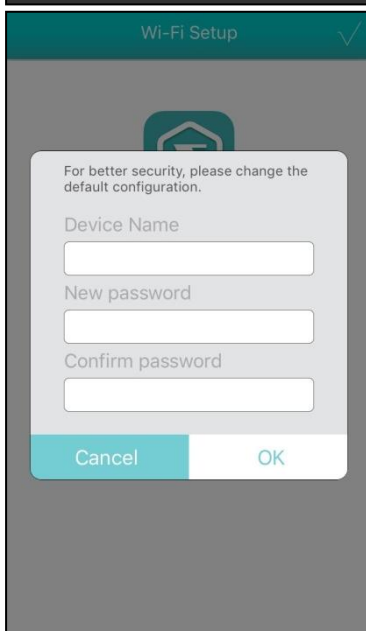
5. Tap the desired Wi-Fi network.



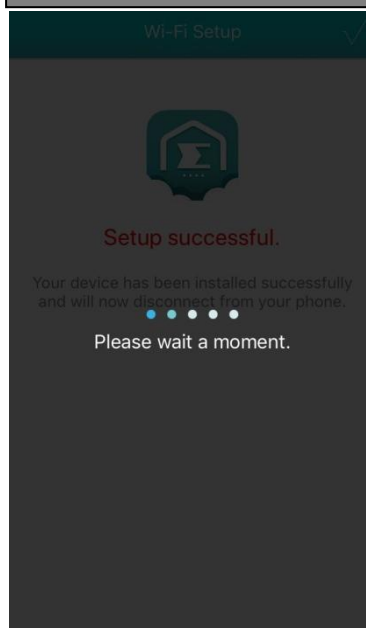
6. Enter the Wi-Fi network password and tap "OK" to continue.



Please wait a moment for the setup process.



7. Enter a device name, password, and confirm the password.
8. Tap "OK" to continue.



Setup Complete! Please wait a moment for the app to take you back to its home screen.



Congratulations! Your air quality detector is up and running!

The home screen is as shown on the left.

The system status LED should be turned on in **blue**.

Now you are able to monitor the air quality near your unit with your mobile device anywhere (as long as you have access to the Internet).



**CO<sub>2</sub> and TVOC sensors require up to 72 hours to self-calibrate after the installation.**

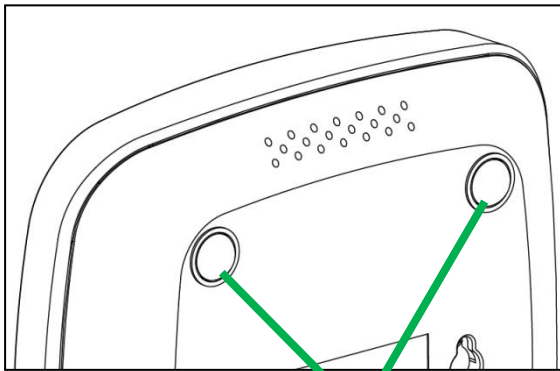
### III-3 Deploying the Unit

After connecting to the Internet (and your mobile device's EdiGreen Home app), you can choose how to place your air quality detector.

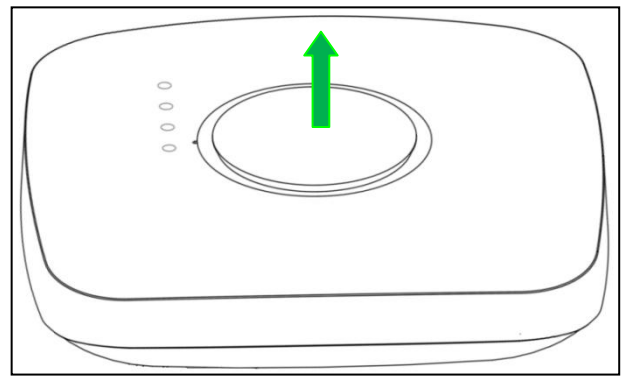
#### Rubber Legs

Simply place the unit with the center button facing upwards on a bench or flat surface.

The rubber legs (shown below) act as shock prevention and anti-slide support.



Rubber Legs



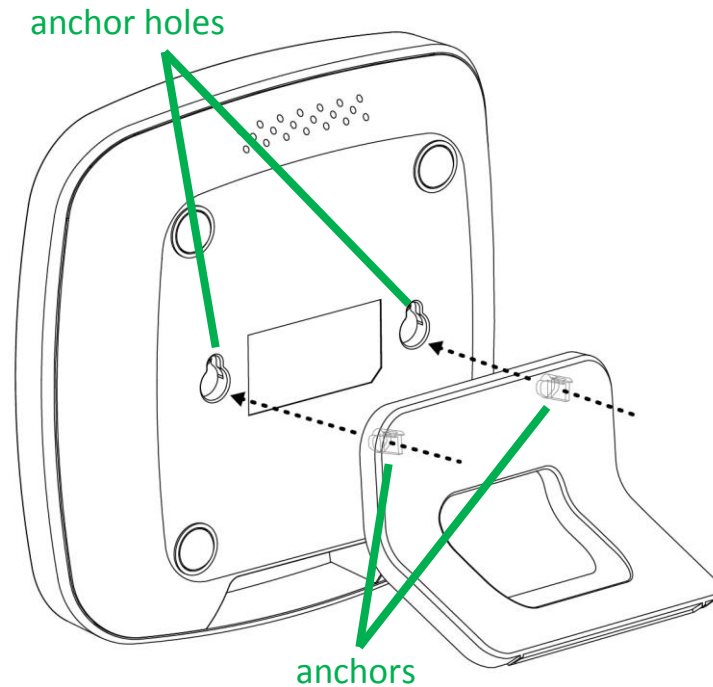
Detector sitting on a bench or flat surface



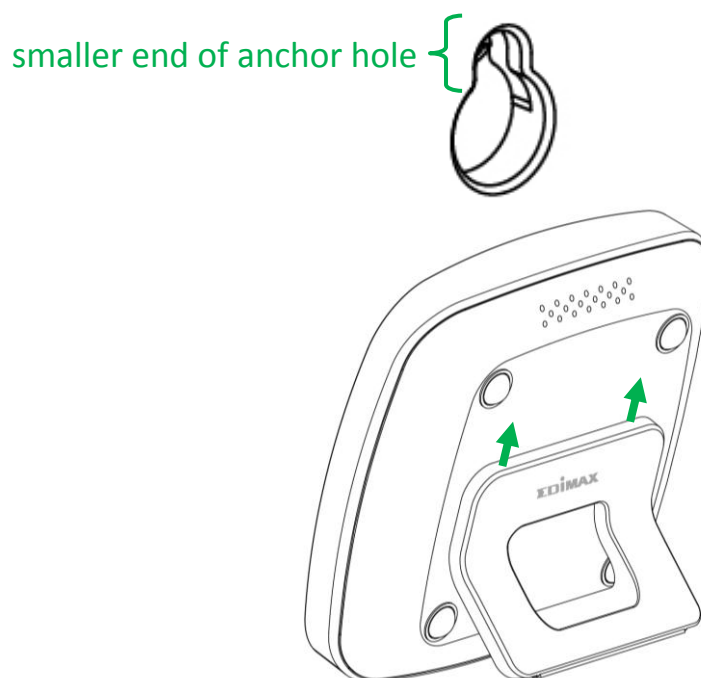
## Using Device Stand

Use the Device Stand to hold the device on a surface.

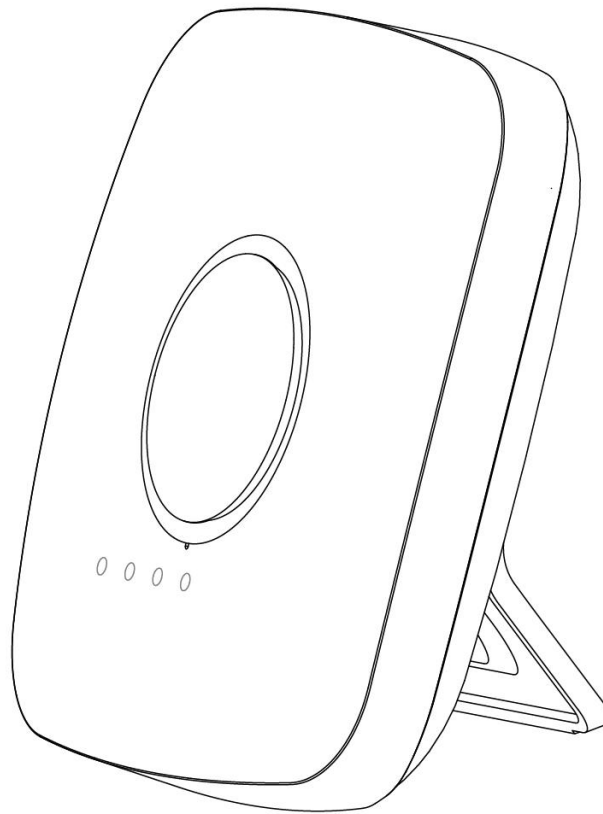
1. Locate the anchors on the Device Stand and the anchor holes on the device. Insert the anchors into the device.



2. Push the anchors towards the smaller ends of the anchor holes to fix the Device Stand.



3. Place the unit at your desired location in the position shown below:



The bottom of the stand has rubber to act as anti-slide support.



## IV Home Screen Information and Functions

Home screen of the app features a few simple functions and real-time data for users to quickly understand current air quality near the device.



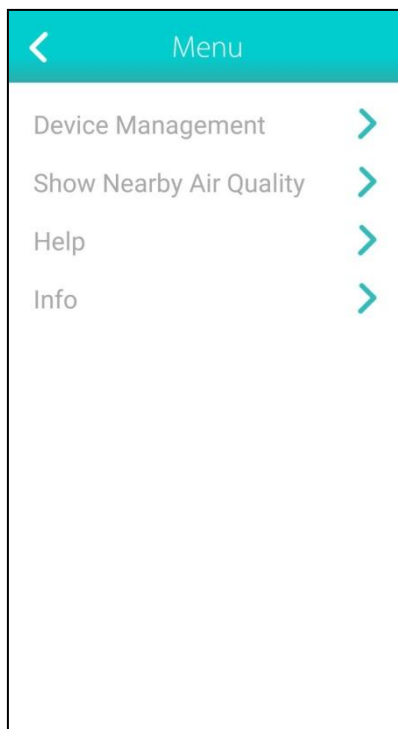
Different mobile operating systems will have slightly different display cosmetic-wise.



The following sections will explain the featured functions and information.

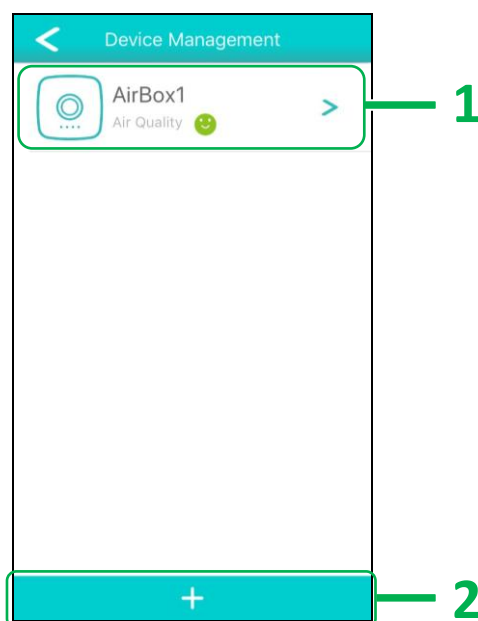
## IV-1 Menu

Tap  to enter Menu as shown below:




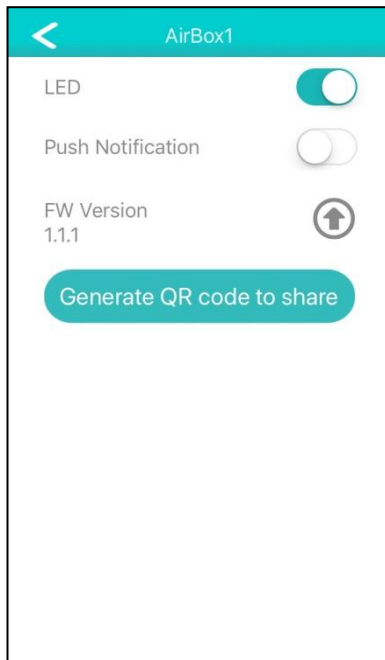
### IV-1-1 Device Management

This submenu displays the device(s) added to the app. Users can go into one single device for further configurations or add more Devices to this app.




## IV-1-1-1 Device Configuration


Tap the  icon to go into the configuration page shown below:




### LED

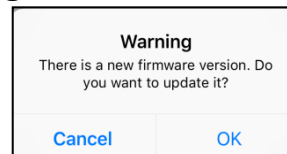
Tap the  icon to turn on / off the display of all air quality LED (Note: System Status LED is always on).

### Push Notification

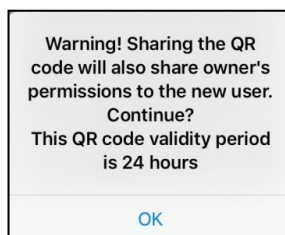
Tap the  icon to turn on / off Push Notifications.

### FW Version

- Tapping  will initiate firmware version check.
- If new version is available, the app will ask if you would like to upgrade to the newest version.



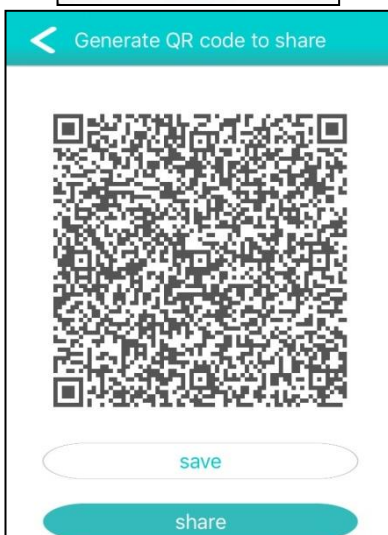
- Tap "OK" to continue.



### Generate QR code to share

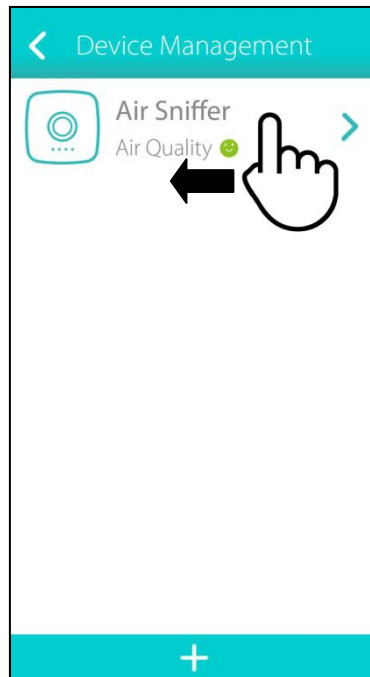
Tap this option to share the settings of this unit to other mobile devices.

- The app will provide a warning and remind users (shown on the left) of the validity period of the QR Code. Tap "OK" to continue.
- Tap "save" to save the QR code on the device.
- Tap "share" to share the QR code as a picture to user's desired medium.

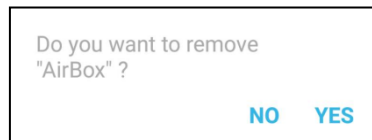


#### IV-1-1-2 Remove Device

If you wish to remove a particular device, go to the "Device Management" page and swipe the name of the device to the left.




The app will ask if you would like to remove the device as shown below:



Tap "YES" to remove, or tap "NO" to forfeit the option.

#### IV-1-1-3 Add Device Option

Tap  to add more devices to the app and refer to the steps in **III Installation** to add more devices.

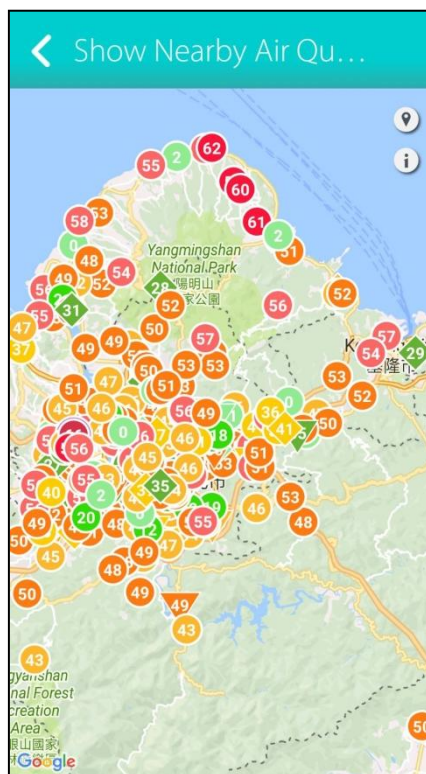
If you have a device attached to another mobile device's EdiGreen Home app, please refer to **VI-1 Adding Already-Connected Devices** to add this device.


## IV-1-2 Show Nearby Air Quality


Tap this option to display nearby air quality.

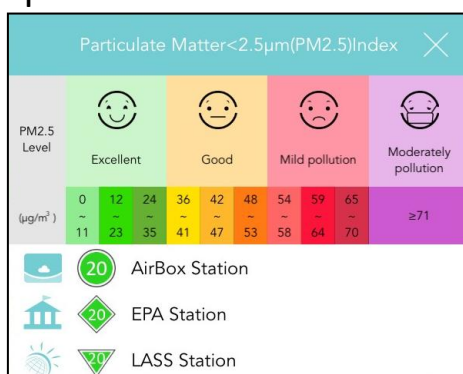


The map will display AI-1001W devices in the area. If the area does not have any AI-1001W devices, no air quality information is displayed.



Tap  will bring you back to your current location on the map.

Tap  will display the air quality level of PM2.5 (in a chart) and information of other devices on the map:



**Circles** displayed on the map represent the detection stations. The number inside the circles is the PM2.5 air quality level, as shown:



**Diamonds** displayed on the map represent the EPA stations. The number inside the diamonds is the PM2.5 air quality level, as shown:



**Triangles** displayed on the map represent the LASS stations. The number inside the triangles is the PM2.5 air quality level, as shown:



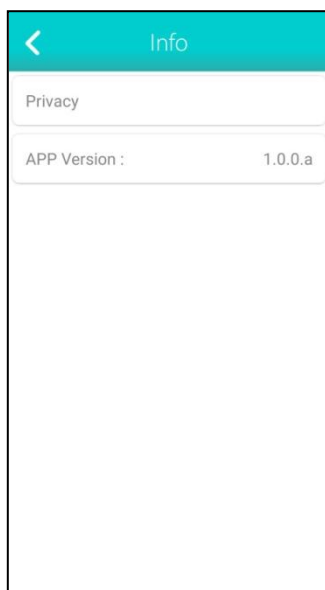
### IV-1-3 HELP

If you need more information, please contact your local service provider. Tapping "Help" will take you to the contact information page of Edimax.

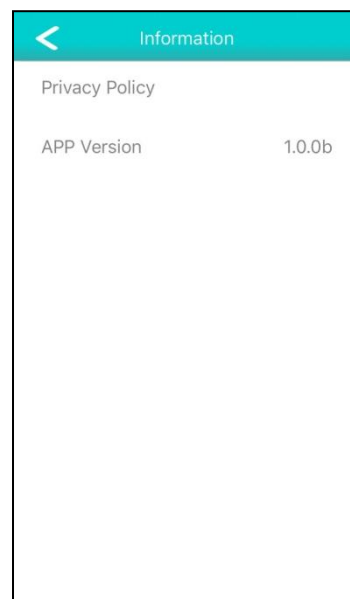
### IV-1-4 Information

Tapping "Information" will provide "Privacy Policy" and "APP Version":

#### Android



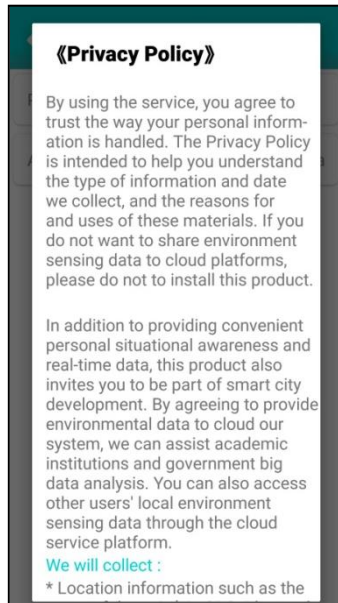
#### iOS



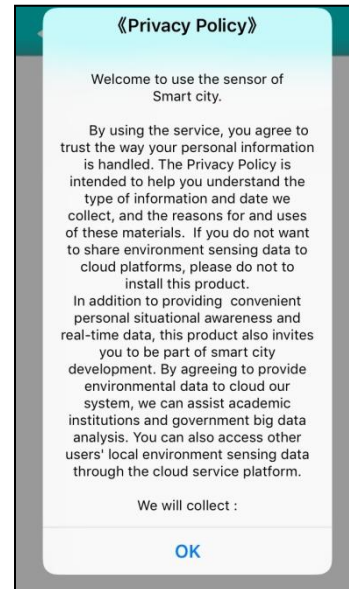


Tap "Privacy Policy" to see privacy policy:

## Android



## iOS



## IV-2 Device Name

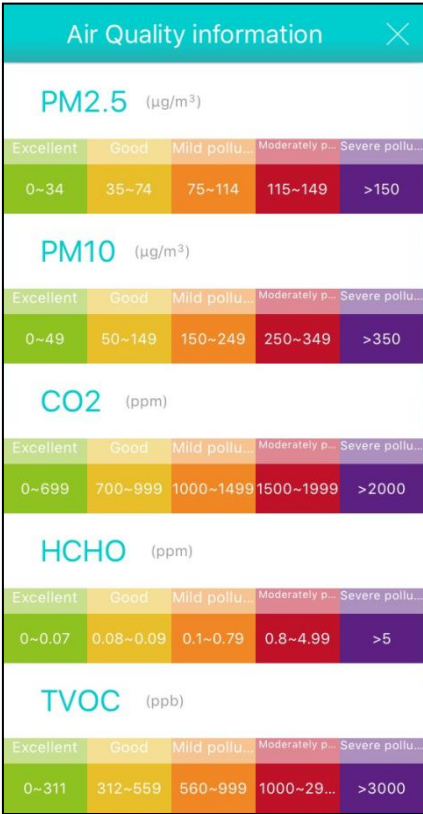
This displays the name of the device.

If you wish to understand the air quality information around you using the map (), it is advisable to name your device a unique name (**IV-4-1 Change Device Name**).

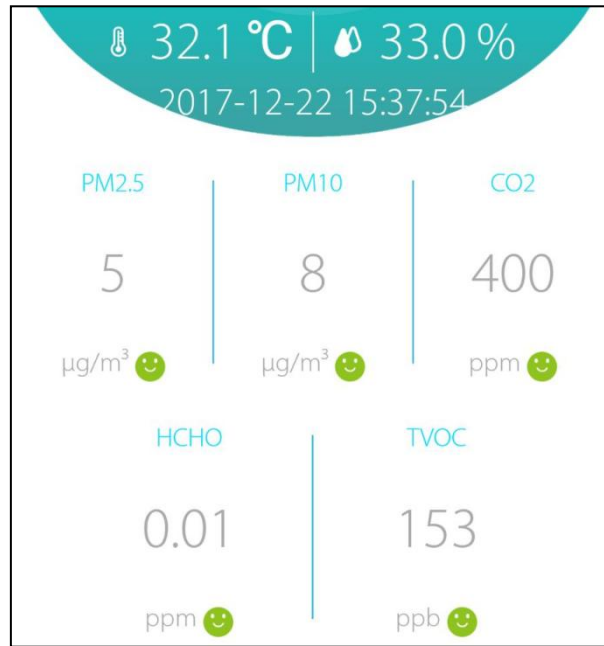


## IV-3 Collective Air Quality Information Chart

Tap  to display the Air Quality Information Chart as shown below:



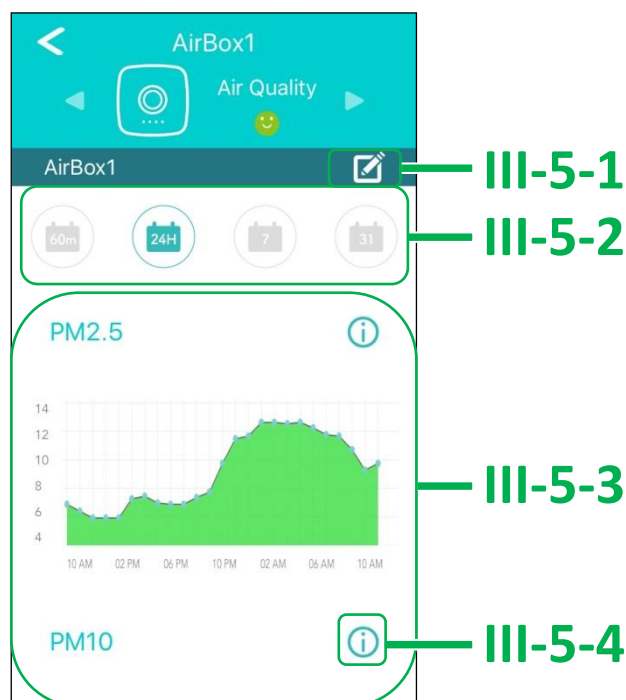
## IV-4 Current Air Quality Information



Temperature and humidity is respectively displayed on top with their corresponding icons.

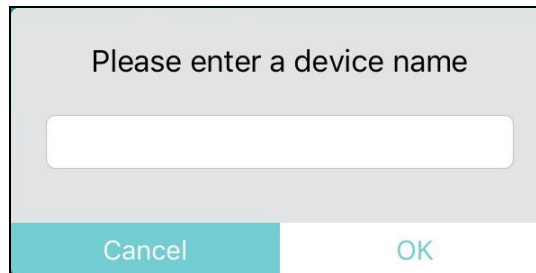
The displayed time is the time the *data was last retrieved* from the server.

The 5 figures below the retrieval time are the 5 air pollutant (PM<sub>2.5</sub> / PM<sub>10</sub> / CO<sub>2</sub> / HCHO / TVOC) values. Tapping any of them will display its historical values, as exemplified below:



## IV-4-1 Change Device Name

Tap  to change the device name



A modal dialog box with a light gray background. At the top, it says "Please enter a device name". Below this is a white text input field. At the bottom, there are two buttons: "Cancel" on the left and "OK" on the right, both in a teal color.

Tap "OK" to confirm the change, or "Cancel" to forfeit the change.

## IV-4-2 Choosing Air Quality Timeline

Tapping any of the four options will display the air quality history on their corresponding timeline:



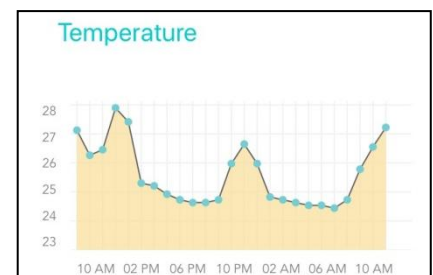
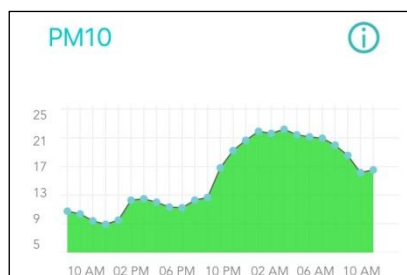
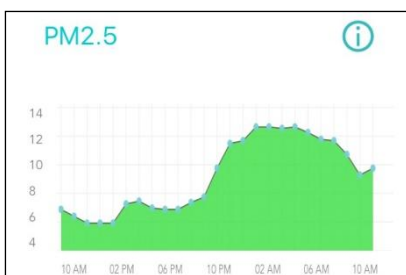
Timeline Options:

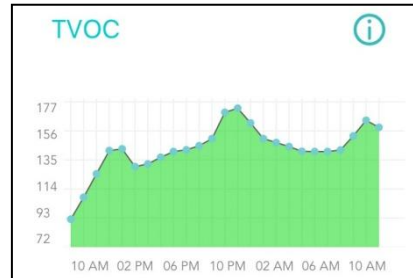
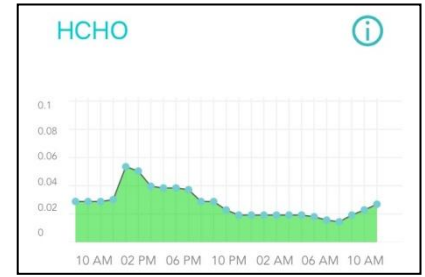
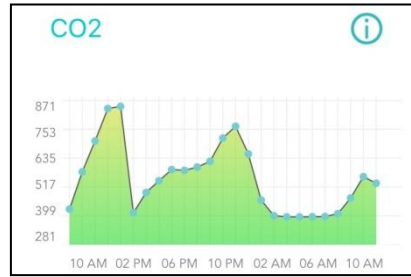
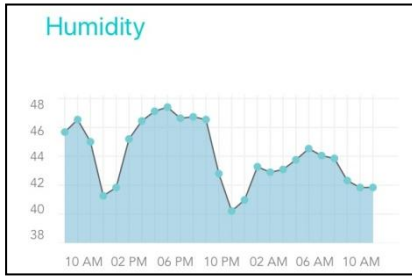
- 1 hour (60m)
- 1 day (24H)
- 1 week (7d)
- 1 month (31d)

## IV-4-3 Air Quality VS Time


Users can swipe up or down to look at a particular air quality information against the chosen timeline.

Examples of each air quality information against time are shown below:





#### IV-4-4 Air Quality Information Chart

Tap  to see individual air quality information.  
PM<sub>2.5</sub> chart is shown as an example:



## V **Reset to Factory Default Settings**

---

If you experience problems with the device, try rebooting it by reconnecting the power. If rebooting does not work, try resetting it back to its factory default settings. This resets **all** settings back to the default settings.

1. Within 3 minutes of reconnecting power to the device, press and hold the center button (indicated in the picture below) for at least 10 seconds, where the **System Status LED** is turned on in **Red**.



The device would not reset if you try resetting it *after* 3 minutes of reconnecting power. Please try within 3 minutes of reconnecting power.

2. Please wait a moment for the device to reset. The **System Status LED** will start flashing in **Red** if it is ready to connect to your app and the Internet.

## VI Advance Feature



### VI-1 Adding Already-Connected Devices

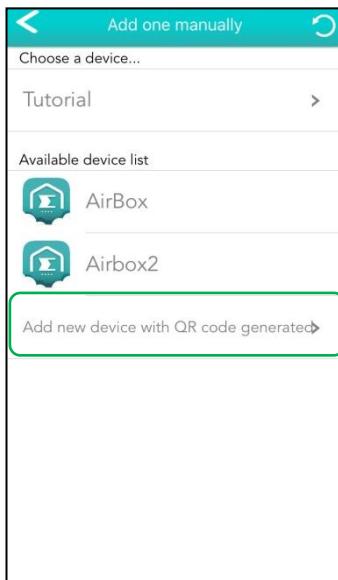


"Connected Device" referred here is defined as a detector device already connected to a mobile device's EdiGreen Home app.

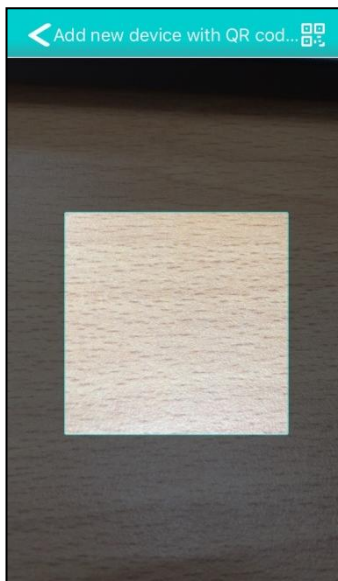
The EdiGreen Home App can add other connected devices. Refer to below on ways to add connected devices.

#### VI-1-1 Scan QR Code

1. Tap  to enter **Menu → Device Management**. Tap  to enter the page shown below:

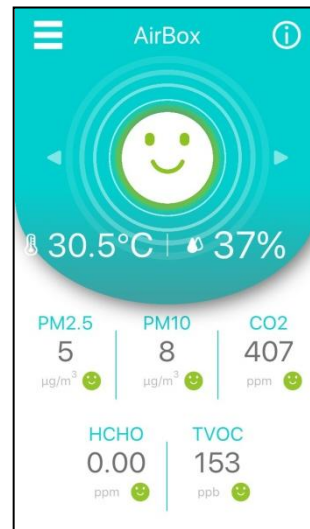
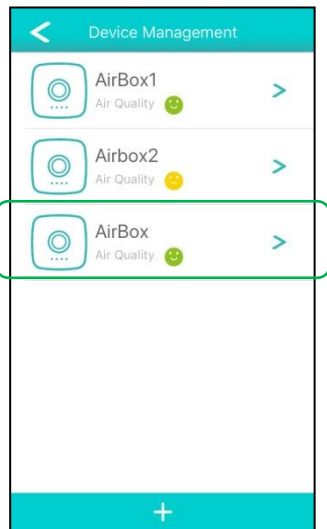


2. Tap "Add new device with QR code generated".





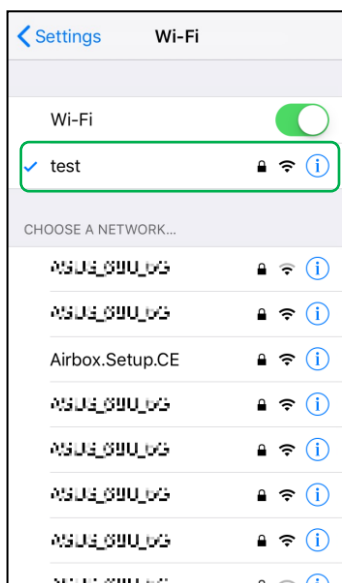
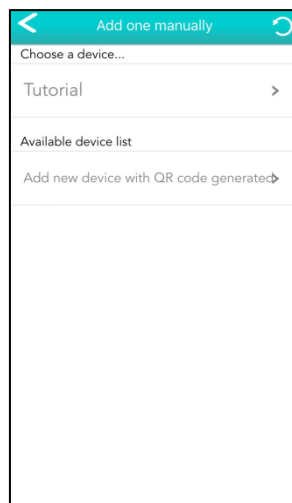
3. The app will start up QR Code scanner. Scan the QR code of the QR Code generated by another mobile device's EdiGreen Home app.

When the scanning is successful, the app will bring you to the device's home screen. Moreover, the device will be displayed on the "Device Management" page.



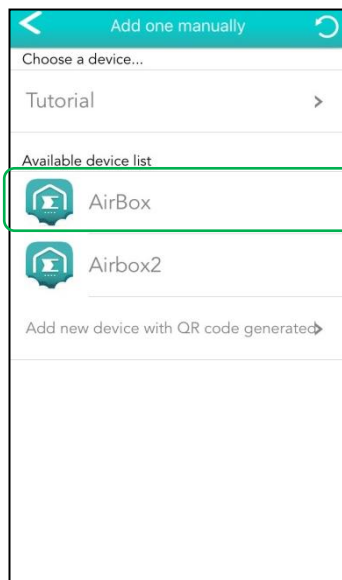
## VI-1-2 Add Via Local Network


1. Tap  to enter **Menu → Device Management**. Tap  to enter the page shown below:



2. Please go to the Wi-Fi settings of your mobile device and connect to the Wi-Fi network the detector is connected to.



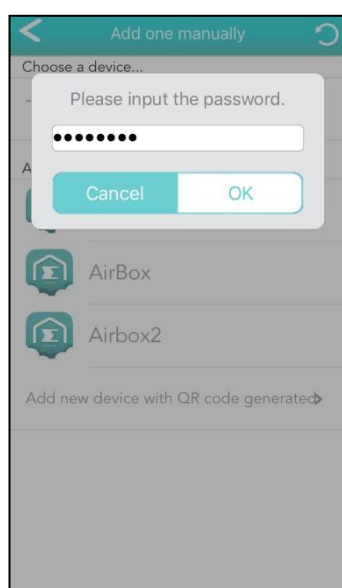


3. Go back to the app and tap  to see all the detectors connected to this network (exemplified on the left).

4. Tap the unit you wish to add to your EdiGreen Home app.



**If you cannot find the desired unit, tap  to refresh the list.**

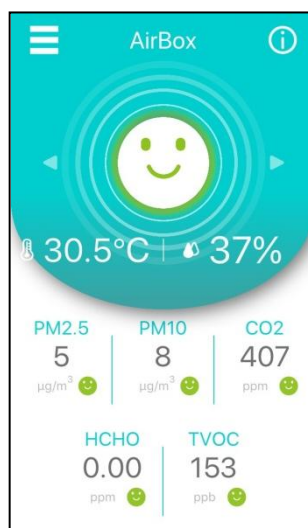
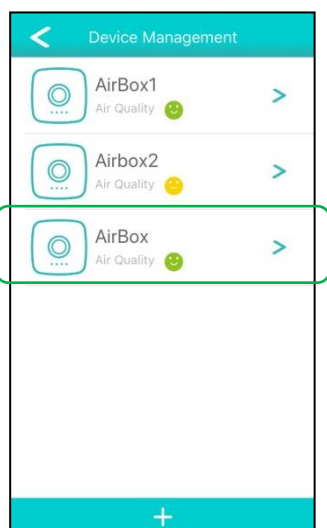


5. The app will prompt you to enter the unit's password (this is the password entered during the unit's initial installation process). Enter the password and tap "OK" to continue.



**If you do not remember the password, you may choose to add the unit by scanning the QR Code; Alternatively, you may reset the unit and reconnect it to the Internet and to your mobile device's EdiGreen Home app.**


When the process is successful, the app will bring you to the device's home screen. Moreover, the device will be displayed on the "Device Management" page.



## VII Cleaning the Unit

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Choose either of the two options below depending on the cleaning tool you have.

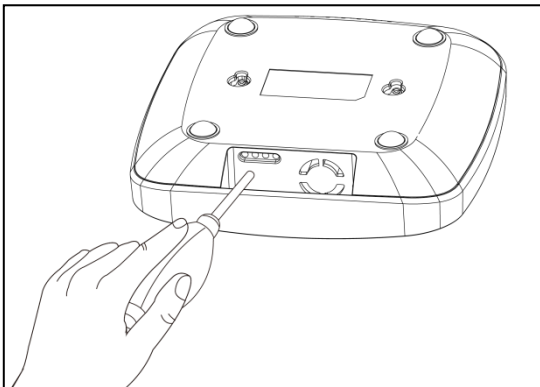
 If you have other pump-like cleaning tools available (e.g. for computers), you may also utilize them. Please be careful to not exert extremes of force or temperature / humidity onto the sensors to prevent damaging them.

It is recommended to clean the sensors every 3-6 months for maximum sensor functionality.

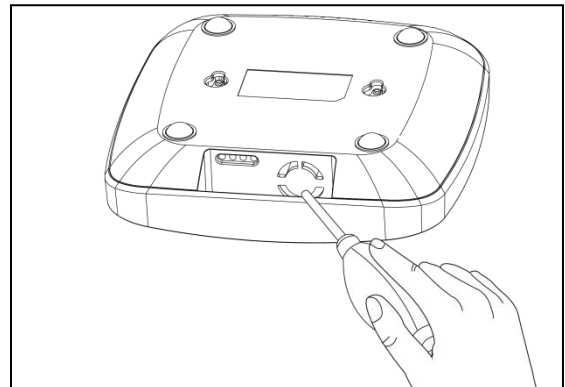
### VII-1 Air Pump Cleaner

 A general air pump cleaner of maximum diameter 55mm and length 150mm will be sufficient.

1. Direct the nozzle of the air pump cleaner at an opening (**Figure 1** or **Figure 2**) of a sensor.
2. Squeeze the bulb to blow air at the sensors.
3. Do this for 5-10 times and make sure all sensor openings are cleaned.



**Figure 1**



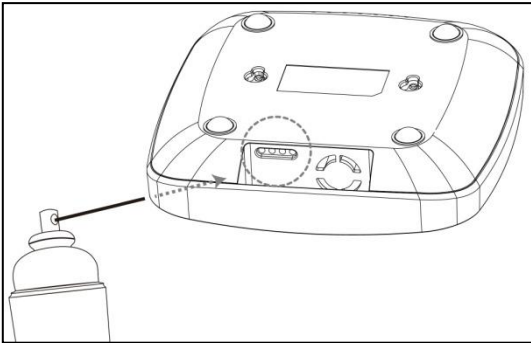
**Figure 2**

## VII-2 Dust-off Canned Compressed Air

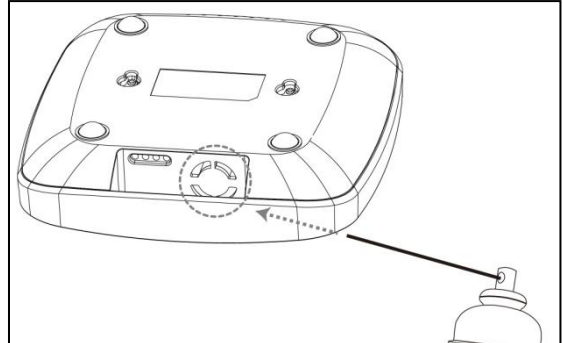


A general dust-off compressed air will be sufficient.

1. Direct the nozzle of the compressed air at an opening (**Figure 3** or **Figure 4**) of a sensor.
2. Keep the nozzle at 10cm from the sensor opening.
3. Use **short bursts** (1-2 seconds) of air spray **a few times** to clean the sensor.
4. Make sure all sensor openings are cleaned.



**Figure 3**



**Figure 4**

## Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of 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:

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

### FCC Caution

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

This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter. 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.

### Federal Communications Commission (FCC) Radiation Exposure Statement

This equipment complies with FCC radiation exposure set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (1 inch) during normal operation.

### RED Compliance Statement

#### ***Compliance with 2014/53/EU Radio Equipment Directive (RED)***

In accordance with Article 10.8(a) and 10.8(b) of the RED, the following table provides information on the frequency bands used and the maximum RF transmit power of the product for sale in the EU:

Frequency range (MHz)	Max. Transmit Power (dBm)
WLAN Wi-Fi 802.11b/g/n; 2, 4 GHz	18 dbm

A simplified DoC shall be provided as follows: Article 10(9)

Hereby, Edimax Technology Co., Ltd. declares that the radio equipment type Home Roaming Wi-Fi Extender is in compliance with Directive 2014/53/EU

The full text of the EU declaration of conformity is available at the following internet address: <http://www.edimax.com/edimax/global/>

### Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

### EU Countries Intended for Use

The ETSI version of this device is intended for home and office use in Austria, Belgium, Bulgaria, Cyprus, Czech, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Turkey, and United Kingdom. The ETSI version of this device is also authorized for use in EFTA member states: Iceland, Liechtenstein, Norway, and Switzerland.

### EU Countries Not Intended for Use

None

**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.

## EU Declaration of Conformity

- English:** This equipment is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU, 2014/30/EU, 2014/35/EU, 2011/65/EU.
- Français:** Cet équipement est conforme aux exigences essentielles et autres dispositions de la directive 2014/53/EU, 2014/30/EU, 2014/35/EU, 2011/65/EU.
- Čeština:** Toto zařízení je v souladu se základními požadavky a ostatními příslušnými ustanoveními směrnic 2014/53/EU, 2014/30/EU, 2014/35/EU, 2011/65/EU.
- Polski:** Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektywą UE 2014/53/EU, 2014/30/EU, 2014/35/EU, 2011/65/EU.
- Română:** Acest echipament este în conformitate cu cerințele esențiale și alte prevederi relevante ale Directivei 2014/53/EU, 2014/30/EU, 2014/35/EU, 2011/65/EU.
- Русский:** Это оборудование соответствует основным требованиям и положениям Директивы 2014/53/EU, 2014/30/EU, 2014/35/EU, 2011/65/EU.
- Magyar:** Ez a berendezés megfelel az alapvető követelményeknek és más vonatkozó irányelveknek (2014/53/EU, 2014/30/EU, 2014/35/EU, 2011/65/EU).
- Türkçe:** Bu cihaz 2014/53/EU, 2014/30/EU, 2014/35/EU, 2011/65/EU direktifleri zorunlu istekler ve diğer hükümlerle ile uyumludur.
- Українська:** Обладнання відповідає вимогам і умовам директиви 2006/95/EC, 2011/65/EC.
- Slovenčina:** Toto zariadenie spĺňa základné požiadavky a ďalšie príslušné ustanovenia smerníc 2014/53/EU, 2014/30/EU, 2014/35/EU, 2011/65/EU.
- Deutsch:** Dieses Gerät erfüllt die Voraussetzungen gemäß den Richtlinien 2014/53/EU, 2014/30/EU, 2014/35/EU, 2011/65/EU.
- Español:** El presente equipo cumple los requisitos esenciales de la Directiva 2014/53/EU, 2014/30/EU, 2014/35/EU, 2011/65/EU.
- Italiano:** Questo apparecchio è conforme ai requisiti essenziali e alle altre disposizioni applicabili della Direttiva 2014/53/EU, 2014/30/EU, 2014/35/EU, 2011/65/EU.
- Nederlands:** Dit apparaat voldoet aan de essentiële eisen en andere van toepassing zijnde bepalingen van richtlijn 2014/53/EU, 2014/30/EU, 2014/35/EU, 2011/65/EU.
- Português:** Este equipamento cumpre os requisitos essenciais da Directiva 2014/53/EU, 2014/30/EU, 2014/35/EU, 2011/65/EU.
- Norsk:** Dette utstyret er i samsvar med de viktigste kravene og andre relevante regler i Direktiv 2014/53/EU, 2014/30/EU, 2014/35/EU, 2011/65/EU.
- Svenska:** Denna utrustning är i överensstämmelse med de väsentliga kraven och övriga relevanta bestämmelser i direktiv 2014/53/EU, 2014/30/EU, 2014/35/EU, 2011/65/EU.
- Dansk:** Dette udstyr er i overensstemmelse med de væsentligste krav og andre relevante forordninger i direktiv 2014/53/EU, 2014/30/EU, 2014/35/EU, 2011/65/EU.
- suomen kieli:** Tämä laite täyttää direktiivien 2014/53/EU, 2014/30/EU, 2014/35/EU, 2011/65/EU oleelliset vaatimukset ja muut asiaankuuluvat määräykset.

	AT	BE	BG	HR	CY	CZ	DK
	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL
	PT	RO	SK	SI	ES	SE	UK

This device is restricted to indoor use.



### WEEE Directive & Product Disposal



At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.

## Declaration of Conformity

We, Edimax Technology Co., Ltd., declare under our sole responsibility, that the equipment described below complies with the requirements of the European Radio Equipment Directive .

**Equipment:** Indoor Air Quality Detector

**Model No.:** AI-2002W

The following European standards for essential requirements have been followed:

**Spectrum:** ETSI EN 300 328 V2.1.1

**EMC:** EN 301 489-1 V2.2.0

EN 301 489-17 V3.2.0

**EMF:** EN 62311:2008

**Safety (LVD):** IEC 60950-1:2005 (2nd Edition)+Am 1:2009+Am 2:2013  
and/ or EN 60950-1:2006+A11:2009+A1:2010+ A12:2011+  
A2:2013

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a company of :  
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No. 278, Xinhua 1st Rd., Neihu  
Dist. Taipei City, Taiwan

Printed Name: Vivian Ma  
Title: Director  
Edimax Technology Europe B.V.



Date of Signature: Jan., 2018

Signature:

A handwritten signature in black ink, appearing to read 'Albert Chang', written over a horizontal line.

Printed Name:

Albert Chang

Title:

Director

Edimax Technology Co., Ltd.

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