

Air Quality Monitor
HUMA™

User Manual



Huma-i Smart (HI-300)

Indoor Air Quality Monitor that measures CO₂, VOC, Fine Dust (PM2.5, PM10, PM1.0), Temperature and Humidity with Mobile App for IOS and Android.

Introduction - Huma-i smart (HI-300)

Thank you for purchasing our air quality monitors.

Huma-i smart (HI-300) is equipped with a dedicated sensor for CO₂ (carbon dioxide) and VOC (volatile organic compounds), enabling accurate measurement of CO₂ and VOC in real time. In addition, PM1.0/PM2.5/PM10/Temperature/Humidity can be measured simultaneously in real time with precision.

Through the Wi-Fi network connection, you can check and manage various air quality anytime & anywhere with a mobile app. It will help you to improve the quality of life through the management of air quality data for the last 90 days. You can receive real-time notification of changes in air quality through push messages, and also provide accurate weather information.

Thank you.

Anytime & Anywhere with Huma-i

Before getting started

First, search for and install the Huma-i app from Google Play or Apple App Store.



Huma-i app

1. Run the downloaded Huma-i app and register as a member.
2. Create a home name first, and then register the name of the room in which the device will be installed.

3. Click “Product registration” button to register the product.

Product registration is only possible after setting at least one room.

4. After registering the product, you can check the air quality information such as CO₂, VOC, fine dust (PM1.0/PM2.5/PM10), temperature and humidity through the mobile app in the form of graphs with numbers, more easily and conveniently.

※ Please refer to the Huma-i app manual for how to use the Huma-i app, such as product registration. The app manual can be downloaded from “Huma-i website (www.huma-i.com) → Reference → Download”.

Product package



Huma-i smart (HI-300) 1ea



User Manual 1ea



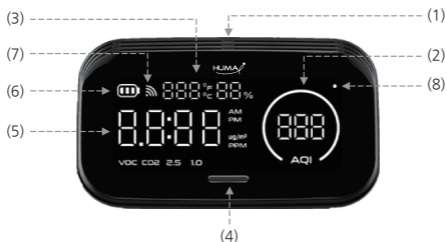
USB cable 1ea



Adaptor 1ea (optional)

** The product configuration image in this manual is for illustrative purposes only, and may look different from the actual product.

Main functions



- | | | |
|-------------------------------------|-----------------------------|------------------|
| 1. USB C connector | 4. Mode selection button | 8. Status LED |
| 2. Indoor AQI display | 5. Display mode | 9. Brightness |
| 3. Temperature / Humidity indicator | 6. Battery status indicator | 10. Data storage |
| | 7. Wi-Fi status indicator | |

1. USB C connector

- 1) When the USB C cable is connected to the adapter, the product turns on automatically.
- 2) When the power is connected, the device starts operating.
- 3) Battery Mode - Disconnect the USB C cable to enter battery mode.
 - ① When entering battery mode, the product is automatically turned off after 30 minutes to protect battery life.
 - ② Press the mode selection button for more than 5 seconds to turn off the power. After 2 seconds, a beep sounds and the power turns off after 5 seconds. The measured value blinks 1 minute before the power is automatically turned off.
 - ③ At this time, pressing the mode selection button automatically extends the use for 30 minutes. If you activate the mobile app, you can still use it.
 - ④ In battery mode, it can be used for 60 minutes, depending on the environment. Connect the power supply before running out of

battery. If power is turned off when using battery mode, the product will automatically power on again when the USB cable is connected.

- ⑤ Huma-i smart is designed to be used when the power is connected. Battery mode is supported for user convenience, so use battery mode only when necessary.

2. Indoor AQI display

- 1) It displays the current indoor AQI figures and steps.
- 2) The color changes according to the AQI step.
- 3) If the 'Poor' or 'Unhealthy' condition persists in the AQI step for more than 5 minutes, the AQI alarm sounds for 1 minute. The mobile app device alarm setting enables the AQI alarm to be turned on/off. (The initial setting is "OFF")

- ① Good - BLUE
- ② Moderate - GREEN
- ③ Poor - YELLOW
- ④ Unhealthy - RED

Huma-i smart AQI Table

AQI Status	Good	Moderate	Poor	Unhealthy
AQI figures	0 ~ 50	51 ~ 100	101 ~ 200	201 ~ 500
Status display color	Blue	Green	Yellow	Red

※ The Huma-i Air Quality Index (AQI) converts individual measurements of VOC, CO₂, PM10, PM2.5 and PM1.0 and displays them as an integrated air quality index.

Measurement object and unit	Good	Moderate	Poor	Unhealthy
PM10 (μg/m ³)	0 ~ 15	16 ~ 25	26 ~ 35	36 ~
PM2.5 (μg/m ³)	0 ~ 15	16 ~ 25	26 ~ 35	36 ~
PM1.0 (μg/m ³)	0 ~ 30	31 ~ 50	51 ~ 70	71 ~
VOC (ppm)	0.000 ~ 0.220	0.221 ~ 0.660	0.661 ~ 2.200	2,201 ~ 9,999
CO ₂ (ppm)	400 ~ 700	701 ~ 1000	1001 ~ 2000	2001 ~ 5000

※ In the case of PM10, it is not displayed on the device and can be checked through the app.

3. Temperature/Humidity indicator

- 1) It displays the temperature and humidity of the current room.
- 2) Temperature/humidity display can be set in the mobile app.
(The initial setting is "OFF")
- 3) Celsius (°C) and Fahrenheit (°F) can be set in the mobile app.
(The initial setting is "Celsius")
- 4) Since the temperature and humidity sensors are inside the product, there may be a deviation of 5 to 10%.

4. Mode selection button

- 1) It can be used to select and change the display mode.
- 2) When AQI alarm sounds, it can be used to stop AQI alarm sounds.
- 3) When operating in battery mode, press and hold for 5 seconds to turn off the product.

5. Display mode

Huma-i smart shows various air quality values. Press the mode selection button to switch modes.

Five modes (Clock => VOC => CO₂ => PM2.5 => PM1.0) are changed in order.

① Clock

When registering the product through the mobile app, the time is automatically set. (AM/PM display)

② VOC

A waiting time of 15 to 60 seconds is required until VOC value is displayed. During the waiting time, "----"ppm is displayed.

③ CO₂

A waiting time of less than 180 seconds is required until CO₂ value is displayed. During the waiting time, "----"ppm is displayed. The first time you use the product after receiving it, it may take longer to wait.

④ PM2.5

It displays PM2.5 value as soon as the product power is connected.

⑤ PM1.0

It displays PM1.0 value as soon as the product power is connected.

⑥ AUTO mode

It can be set only in the mobile app.

The display screen automatically changes in the order of Clock => VOC => CO₂ => PM_{2.5} => PM_{1.0} every 5 seconds.

In AUTO mode, the status LED lights.

⑦ OFF mode (full-screen off mode)

It can be set only in the mobile app.

In the display OFF mode, the status LED blinks.

6. Battery status indicator

- 1) When the power is connected, it displays the charging status and turns off automatically after 5 seconds.
- 2) If the power cable is disconnected while the product is on (battery mode), the remaining battery is displayed.

7. Wi-Fi status indicator

- 1) When the Wi-Fi is not connected, the Wi-Fi icon flashes.
- 2) When the Wi-Fi is connected, the Wi-Fi icon turns off

8. Status LED

- 1) If the device's display is on, the status LED will automatically turn off.
- 2) When set to OFF mode (full-screen off mode) in the mobile app, the status LED blinks.

9. Brightness

- 1) The brightness of the screen is automatically adjusted through the illuminance sensor.
- 2) The screen brightness can be set to "Dark/Middle/Bright/AUTO" in the mobile app. (the initial setting is "Bright")

10. Data storage

- 1) If the Wi-Fi connection is lost, the measured data is saved in the device. Up to 90 days of data can be stored.
- 2) When Wi-Fi connected, the measured data is automatically sent to the server every 5 minutes.
- 3) With Wi-Fi disconnected, data stored on the instrument is automatically sent to the server when Wi-Fi connection is reconnected.

Specifications

Product	Indoor Air Quality Monitor
Model No	Huma-i smart (HI-300)
Measurement Range	CO ₂ : 400 ~ 5,000ppm
	VOC: 0.000 ~ 9.999ppm
	PM1.0/PM2.5/PM10: 0 ~ 999 μ g/m ³
	Temperature: -30 ~ 100°C (-22 ~ 212°F)
	Humidity: 0 ~ 99 %RH
Clock	AM/PM
Display	Customized LED display
Wi-Fi	2.4GHz only 802.11 b/g/n
App	Supports Android and iOS
Power Adaptor	Input: AC 100/240V, 50/60Hz, USB-C
	Output: 5V/1A external power adaptor
Battery	Li-polymer @ 650mAh/3.7V
Operating Temperature	-10 ~ 60°C (14 ~ 140°F)
Storage Temperature	-25 ~ 60°C (-13 ~ 140°F)
Dimension	136 * 82 * 40mm
	(5.35 * 3.23 * 1.58 inches)
Weight	171g (6.03oz)
Certifications	CE FCC KC

Limited Warranty

1. Do not place in high temperature and humid conditions or prolonged exposure to direct sunlight. It may deform the appearance or cause a malfunction.
2. Do not use for a long period of time in a high concentration fine dust environment. Measurement may not be smooth.
3. Do not arbitrarily disassemble the product. Quality assurance does not apply to products that are randomly disassembled.
4. Be careful not to let drinks or water get inside the product. It may cause a malfunction, electric shock or fire.
5. Depending on the environment (temperature, humidity, wind) and how to use this product, errors may occur.
6. The measured values of this product are for personal use only, and the manufacturer and seller are not liable for the measured values.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference 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.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.

FCC ID: 2AC7Z-ESPWROOM32D

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.

*** Be advised that FCC ID is the ID for the RF module.