

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

[manuals.plus](#) /

› [Irfora](#) /

› [Irfora Tuya WiFi Intelligent Air Quality Detector \(Model AK22\) User Manual](#)

Irfora AK22

Irfora Tuya WiFi Intelligent Air Quality Detector (Model AK22) User Manual

Comprehensive instructions for setup, operation, maintenance, and troubleshooting of your air quality monitor.

1. PRODUCT OVERVIEW

The Irfora Tuya WiFi Intelligent Air Quality Detector (Model AK22) is a versatile device designed to monitor various indoor air quality parameters. It provides real-time readings for PM2.5, CO2, TVOC, HCHO, temperature, and humidity, along with time and date display. The device features a large color screen for clear data visualization and can connect to a mobile application for remote viewing and data insights.



Image: The Irfora Tuya WiFi Intelligent Air Quality Detector, showing its display, included charging cables, and the user manual.

2. SETUP

2.1 Unboxing and Initial Charge

Carefully remove all components from the packaging. The package includes the air quality monitor, a USB charging cable, and this user manual. Before first use, ensure the device is fully charged using the provided USB cable and a compatible power adapter (DC5V-1A).

2.2 Powering On/Off

To power on the device, press and hold the power button located on the back of the unit until the screen illuminates and you hear a beep. To power off, press and hold the same power button until the screen turns off.

2.3 Mobile App Connection (Tuya APP)

The device supports remote viewing via the Tuya mobile application. Download the Tuya APP from your smartphone's app store. Follow the in-app instructions to connect your device to your mobile phone via Wi-Fi. This allows you to view data remotely and manage settings.

Tuya APP Remotes Viewing

After connect with your mobpilephone APP correctly, you can view the data on your mobilephone easily, wherever you are.



Image: The air quality detector showing its display, with a smartphone nearby illustrating the remote viewing capability via the Tuya app.

3. OPERATING INSTRUCTIONS

3.1 Display Overview

The large color screen displays the following parameters:

- **PM2.5:** Particulate Matter (fine particles like smoke, dust, allergens, pollution).
- **CO2:** Carbon Dioxide (indicates air staleness).
- **TVOC:** Total Volatile Organic Compounds (overall chemical fume level from household products).
- **HCHO:** Formaldehyde (a VOC released by furniture, paint, carpet cleaners).
- **TEMP:** Temperature (in Celsius or Fahrenheit).
- **HUMI:** Humidity (relative humidity percentage).
- **AQI:** Air Quality Index (visual indicator of overall air quality, with color-coded ranges).
- **Time/Date:** Current time and date.



Image: The air quality detector's display, clearly showing all monitored parameters and the AQI indicator.

3.2 Button Functions (Rear Panel)

The device features several control buttons on its rear panel:

- **Power Button:** Press and hold to turn the device on/off.
- **Alarm Button:** Controls the audible alarm. Press to toggle the alarm on/off or adjust its volume. The alarm will sound if air quality parameters exceed predefined safe levels.
- **Display Mode Button:** Toggles between light and dark display modes.
- **Brightness Button:** Adjusts the screen brightness. Useful for different lighting conditions or for use in a bedroom at night.
- **Settings Button:** Accesses device settings, including time adjustment and other configurations.

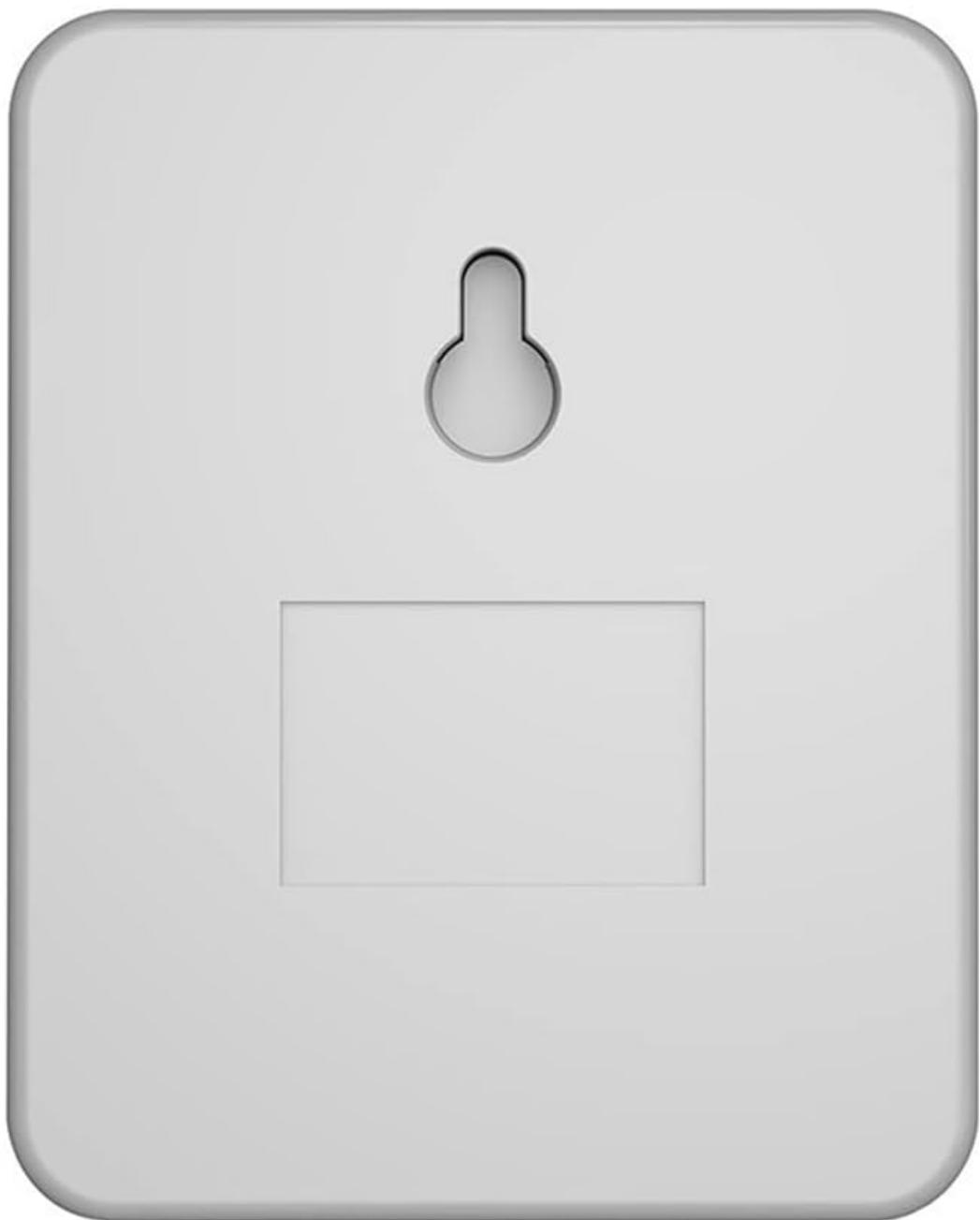


Image: The back of the air quality detector, highlighting the power, alarm, display mode, brightness, and settings buttons.

3.3 Alarm Clock Function

The device includes two sets of alarm clocks. These can be configured through the device settings or the mobile application to suit your needs.

4. MAINTENANCE

4.1 Cleaning

To maintain optimal performance, regularly wipe the device with a soft, dry cloth. Avoid using abrasive cleaners or solvents that could damage the screen or casing. Ensure the ventilation grilles are free from dust and obstructions.

4.2 Recalibration

If you suspect inaccurate readings, the device may require recalibration. Refer to the mobile application's settings or the detailed user manual for specific recalibration procedures for each sensor (PM2.5, CO2, TVOC, HCHO, Temperature, Humidity).

5. TROUBLESHOOTING

This section addresses common issues and their potential solutions.

- **High PM Levels:** Often caused by cooking without proper ventilation, burning candles, or a dusty environment. Improve ventilation or clean the area.
- **High CO₂ Levels:** Indicates stale air, typically from insufficient ventilation in occupied spaces. Open windows or use ventilation systems to introduce fresh air. High CO₂ can lead to sleepiness, headaches, and reduced focus.
- **High HCHO/TVOC Levels:** Common sources include new furniture, flooring, cabinets, air fresheners, cleaning sprays, paints, and plastics. Ensure good ventilation, especially after introducing new items or using chemical products. Prolonged exposure can irritate eyes or skin.
- **Device Not Powering On:** Ensure the device is fully charged. Press and hold the power button for several seconds until a beep is heard and the screen illuminates.
- **Inaccurate Readings:** Perform a recalibration as described in Section 4.2. Ensure the device is placed in an area with good air circulation, away from direct heat sources or strong drafts.

For further assistance, consult the full user manual or contact customer support.

6. SPECIFICATIONS

Parameter	Value/Range
Model	AK22
PM2.5 Measuring Range	0-9999 ug/m ³
PM2.5 Resolution	1 ug/m ³
TVOC Measuring Range	0-3 mg/m ³
TVOC Resolution	0.001 mg/m ³
CO ₂ Measuring Range	400-5000 PPM
HCHO Measuring Range	0-3 mg/m ³
Temperature Measuring Range	0-60 °C
Humidity Measuring Range	0-99% RH
Battery	1200mAh Lithium Battery
Input	DC5V-1A
Product Dimensions	4.72 x 4.33 x 1.97 inches
Item Weight	9.5 ounces

unit:inch

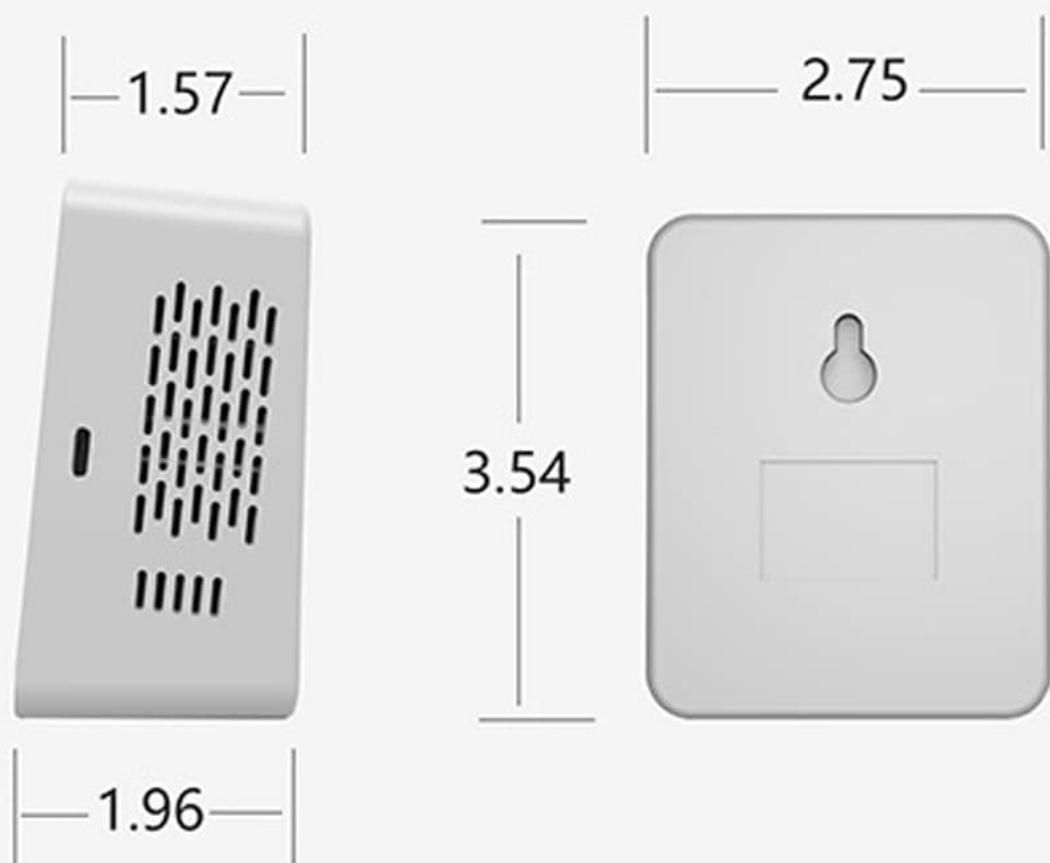


Image: Product dimensions for the air quality detector.

7. VISUAL DEMONSTRATION

Watch this short video for a visual demonstration of the air quality detector's real-time alerts and functionality.

Video: A brief demonstration of the air quality monitor's display and real-time alert system.

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided in the original product packaging or contact Irfra customer service directly.