

INKBIRDPLUS AK3

INKBIRDPLUS AK3 Indoor Air Quality Monitor User Manual

1. INTRODUCTION

The INKBIRDPLUS AK3 Indoor Air Quality Monitor is designed to provide real-time measurements of key indoor air pollutants and environmental factors. This device accurately detects Carbon Dioxide (CO₂), Total Volatile Organic Compounds (TVOC), Formaldehyde (HCHO), as well as ambient temperature and relative humidity. This manual provides essential information for the proper setup, operation, and maintenance of your air quality monitor.

2. PRODUCT FEATURES

INKBIRD PLUS Air Quality Monitor

Adopted high precision infrared sensor and high-performance chip, provides accurate measurements for users.



Image: The INKBIRDPLUS AK3 monitor showcasing its ability to measure multiple air quality parameters.

- **Real-Time Measurement:** Accurately detects CO₂, TVOC, HCHO, temperature, and humidity, updating results per second on a colorful display.
- **Accurate Results:** Utilizes a high-precision infrared sensor and a high-performance chip for precise carbon dioxide measurement.
- **Smart Alarm System:** Features a three-level air quality indicator (GOOD, OK, POOR) with distinct visual and audible alerts for changes in air quality.
- **Long-Lasting Battery:** Equipped with a 1200mAh built-in lithium battery, providing 6 to 8 hours of operation on a 2.5-hour charge. Can operate while connected to power.
- **Wide Application:** Suitable for monitoring air quality in various environments such as cafeterias, restaurants, schools, offices, greenhouses, factories, hotels, and hospitals.

3. PACKAGE CONTENTS

- INKBIRDPLUS AK3 Air Quality Monitor
- USB Charging Cable

4. PRODUCT OVERVIEW



Image: The INKBIRDPLUS AK3 Air Quality Monitor, front view.

4.1 Display and Indicators

3.5 In LCD Screen

straightforward color display



Image: The monitor's 3.5-inch LCD screen provides a clear, color-coded display of all measurements.

The monitor features a 3.5-inch LCD screen that displays all measured parameters simultaneously. Readings include CO2 (in ppm), TVOC (in mg/m³), HCHO (in mg/m³), temperature (in °F or °C), and relative humidity (in %). Battery status and air quality level indicators are also visible.

4.2 Physical Design



Anti-Slip Bottom



Hook Design

Image: The monitor features an anti-slip bottom for stable placement and a hook design for versatile mounting options.

The device is designed with ventilation grilles on the sides for optimal air circulation to the sensors. It includes an anti-slip bottom for stable placement on surfaces and a hook design for hanging, offering flexible placement options.

5. SETUP

5.1 Charging the Device

1200mAh Built-in Battery

max 8 hours battery life



Image: The monitor being charged via its USB port.

Before initial use, fully charge the monitor. Connect the provided USB charging cable to the device's charging port and a standard USB power adapter (not included). A full charge takes approximately 2.5 hours and provides 6 to 8 hours of operation. The device can be used while charging.

5.2 Powering On/Off

- To power on, press and hold the power button until the display illuminates.
- To power off, press and hold the power button until the display turns off.

6. OPERATION

6.1 Understanding the Display

The monitor's colorful display provides real-time readings for:

- **CO₂ (Carbon Dioxide)**: Measured in parts per million (ppm).
- **TVOC (Total Volatile Organic Compounds)**: Measured in milligrams per cubic meter (mg/m³).

- **HCHO (Formaldehyde):** Measured in milligrams per cubic meter (mg/m³).
- **Temperature:** Measured in degrees Fahrenheit (°F) or Celsius (°C).
- **Humidity:** Measured in relative humidity (%).

The display also shows a battery indicator and a color-coded air quality level (GOOD, OK, POOR).

6.2 Smart Alarm Function

The device features a smart alarm system to alert you to changes in air quality:

- **GOOD:** Air quality is optimal. The indicator will typically be green.
- **OK:** Air quality is acceptable but warrants attention. The indicator will turn YELLOW, and the device will emit two "Bee--Bee" sounds.
- **POOR:** Air quality is unhealthy. The indicator will turn RED, and the device will emit two "Bee--Bee--Bee" sounds.

6.3 Calibration

To trigger the calibration function, long press the switch button and release it after hearing two beeps. Refer to the on-screen prompts for further instructions during calibration.

7. UNDERSTANDING AIR QUALITY PARAMETERS

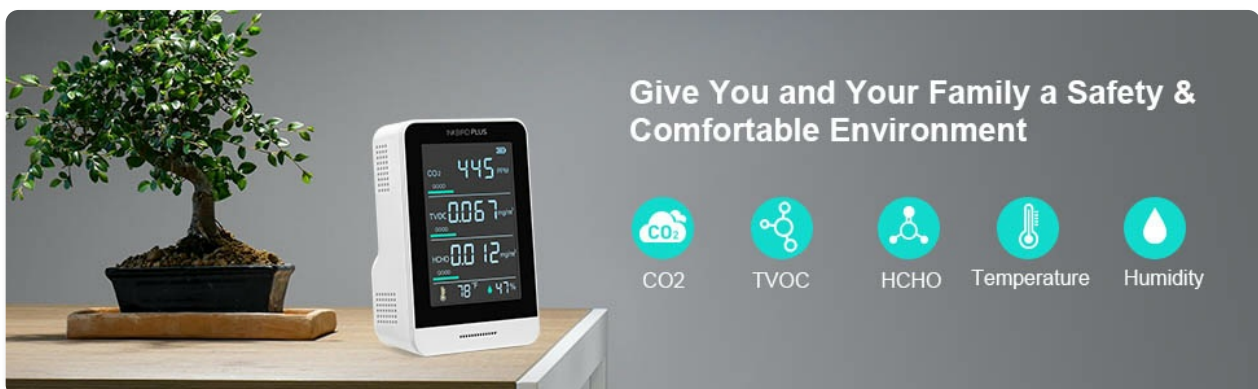


Image: Common sources of indoor and outdoor air pollutants.

- **Carbon Dioxide (CO2):** A natural component of the atmosphere, but high indoor levels can indicate poor ventilation and lead to drowsiness or headaches.
- **Total Volatile Organic Compounds (TVOC):** A group of chemicals that can be emitted from paints, cleaning supplies, furniture, and other household products. High levels can cause irritation and other health issues.
- **Formaldehyde (HCHO):** A common VOC found in building materials, furniture, and some fabrics. It can cause respiratory and skin irritation.

Air quality can change constantly. For a comprehensive understanding of your environment's air quality, focus on measurements taken over longer periods (e.g., over 60 minutes).

8. APPLICATIONS



Image: The INKBIRDPLUS AK3 monitor is suitable for a wide range of indoor environments.

The INKBIRDPLUS AK3 Air Quality Monitor is versatile and can be used in numerous indoor settings to ensure a healthy environment:

- Homes and Bedrooms
- Offices and Workspaces
- Classrooms and Educational Institutions
- Hospitals and Healthcare Facilities
- Factories and Industrial Settings
- Restaurants and Cafeterias
- Hotels and Accommodation
- Vehicles (e.g., cars)

9. MAINTENANCE

- Keep the device clean by wiping it with a soft, dry cloth. Do not use abrasive cleaners or solvents.

- Ensure the ventilation grilles are free from dust and obstructions to maintain accurate readings.
- Store the device in a cool, dry place when not in use.

10. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|--------------------------|---|--|
| Device does not power on | Low battery or no charge | Charge the device using the provided USB cable. |
| Inaccurate readings | Sensor obstruction, device not calibrated, or environmental factors | Ensure ventilation grilles are clear. Perform calibration as described in Section 6.3. Allow device to stabilize in the environment for at least 10 minutes. |
| Alarm sounds frequently | High levels of detected pollutants | Improve ventilation in the area. Identify and remove sources of pollution if possible. |

11. SPECIFICATIONS

| Parameter | Value |
|------------------------------|---|
| Model | AK3 (Manufacturer Reference: AQM-01) |
| Power Source | Battery Powered (1200mAh Lithium Battery) |
| Charging Time | Approx. 2.5 hours |
| Operating Time (Full Charge) | 6-8 hours |
| Item Weight | 224 Grams |
| Parcel Dimensions | 14.2 x 10.1 x 7.2 cm |
| Alarm Type | Audible |
| Operating Humidity | Up to 99% |
| Sensor Type | Electrochemical (for certain gases) |


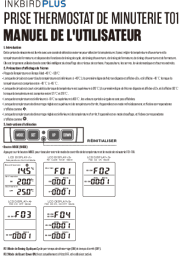



12. SAFETY INFORMATION

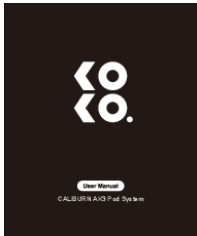
- Do not expose the device to extreme temperatures, direct sunlight, or high humidity.
- Avoid dropping or subjecting the device to strong impacts.
- Do not attempt to disassemble or repair the device yourself. Contact customer support for assistance.
- Keep out of reach of children.
- This device is for informational purposes regarding air quality and should not be used as a substitute for professional medical advice or emergency equipment.

13. WARRANTY AND SUPPORT

INKBIRDPLUS products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the contact details provided on the official INKBIRDPLUS website or your purchase documentation. Please retain your proof of purchase for warranty claims.

Related Documents - AK3

| | |
|---|---|
|  | <p>INKBIRDPLUS PTH-9A Multi-Function Air Quality Detector User Manual</p> <p>Comprehensive user manual for the INKBIRDPLUS PTH-9A Multi-Function Air Quality Detector, covering product introduction, specifications, operation instructions, time/date setting, and warranty information. Monitor PM2.5, PM10, CO2, temperature, and humidity.</p> |
|  | <p>INKBIRDPLUS T01 Prise Thermostat Minuterie Manuel de l'Utilisateur</p> <p>Manuel d'utilisation pour la prise thermostat minuterie INKBIRDPLUS T01. Guide complet sur les fonctions de contrôle de température et de minuterie, les modes de fonctionnement, le calibrage et les spécifications techniques.</p> |
|  | <p>Nova Comet II DR Midi Lathe User Manual</p> <p>Comprehensive user manual for the Nova Comet II DR Midi Lathe, covering safety, setup, operation, maintenance, and troubleshooting.</p> |
|  | <p>NiPoGi Mini PC User Manual - AK1, AK2, AK3, GK3 Series</p> <p>Comprehensive user guide for NiPoGi Mini PCs (AK1, AK2, AK3, GK3). Features interface explanations, 2.5-inch disk installation, usage instructions, troubleshooting Q&A, and safety precautions.</p> |
|  | <p>NiPoGi Mini PC User Manual for AK1, AK2, AK3, GK3 Series</p> <p>Comprehensive user manual for NiPoGi Mini PCs, covering interface introductions, installation of 2.5" disks, usage instructions, troubleshooting, and precautions for AK1, AK2, AK3, and GK3 models.</p> |



[Uwell Caliburn AK3 Pod System User Manual](#)

User manual for the Uwell Caliburn AK3 Pod System, detailing device illustration, quick start guide, specifications, instructions for filling, vaping, charging, and protection features.