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> YNAK AK22A 16-in-1 Air Quality Monitor User Manual

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YNAK AK22A 16-in-1 Air Quality Monitor User Manual

Model: AK22A

1. INTRODUCTION

The YNAK AK22A 16-in-1 Air Quality Monitor is designed to provide real-time detection of various indoor air quality parameters. This device helps you monitor your environment for common pollutants and conditions, ensuring a healthier living or working space. It features a 7-inch display and alerts for critical air quality levels.

Comprehensive Air Quality Monitor



CO2



PM10



PM2.5



PM1.0



HCHO



TVOC



Temperature



Humidity



AQI



Time



Image 1.1: Icons representing the 16 monitored parameters including CO2, PM2.5, PM1.0, PM10, HCHO, TVOC, Temperature, Humidity, AQI, and Time.

2. PACKAGE CONTENTS

Please verify that all items are present in the package:

- 1 x YNAK AK22A Air Quality Monitor
- 1 x Charging Adapter
- 1 x USB-C Cable
- 1 x User Manual (this document)

3. PRODUCT OVERVIEW

The YNAK AK22A monitor integrates multiple sensors and a clear display for comprehensive air quality assessment.



Image 3.1: Front view of the YNAK AK22A Air Quality Monitor, displaying real-time values for PM1.0, PM2.5, PM10, CO₂, HCHO, TVOC, Temperature, Humidity, AQI, and current time.

3.1 Enhanced Airflow and Precision Sensors

The device is engineered with an enhanced design featuring multiple air holes and advanced multi-sensor technology to ensure accurate readings down to 0.001 units. This design facilitates optimal air circulation for precise detection of airborne particles and gases.

Enhanced Airflow for Accurate Sensing

With more holes for more accurate air quality detection

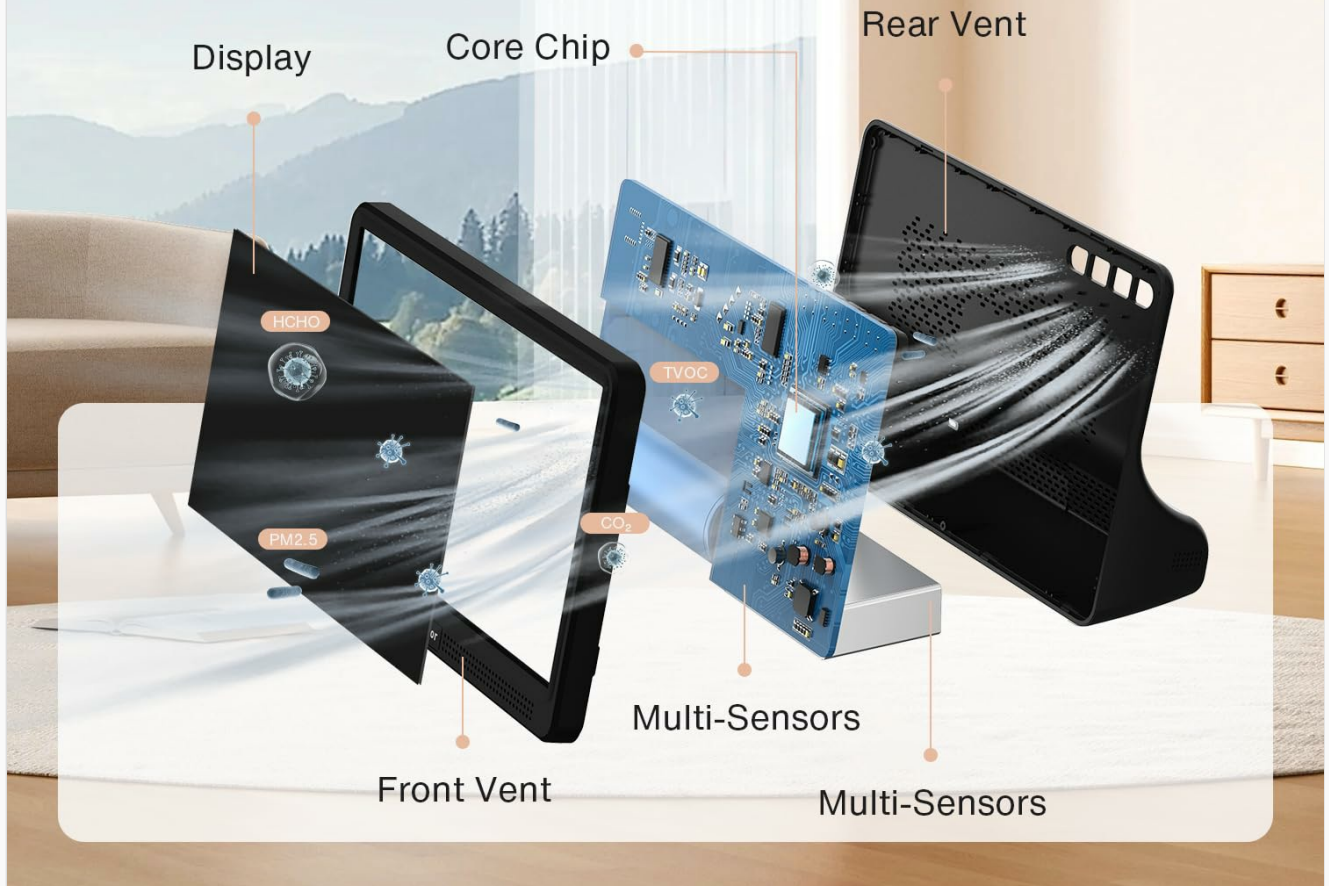


Image 3.2: An exploded diagram illustrating the internal display, core chip, multi-sensors for HCHO, TVOC, CO₂, and the front and rear vents designed for enhanced airflow.

3.2 Precision Core Chip

Equipped with a precision core chip, the monitor ensures accurate tracking of air quality parameters. It offers temperature accuracy of ± 1 to ± 3 °F, humidity accuracy of $\pm 2\%$ to $\pm 3\%$ RH, and an air sensor accuracy of 0.001.

Precision Core Chip

Ensure well-being with precise air quality tracking at 0.001 precision



$\pm 1^{\circ}\text{F} \sim \pm 3^{\circ}\text{F}$
Temp Accuracy



$\pm 2\% \text{RH} \sim \pm 3\% \text{RH}$
Humidity Accuracy



0.001
Air Sensor Accuracy



Image 3.3: The monitor's display with an illustration of the internal precision core chip, emphasizing its accuracy for temperature, humidity, and air sensing.

4. SETUP

4.1 Initial Charging

Before first use, fully charge the device using the provided USB-C cable and charging adapter. The monitor features a 2500mAh lithium battery, providing up to 8 hours of cordless operation.

Rechargeable Lithium Battery

2500mAh battery for up to 8 hours of wireless air quality monitoring



Image 4.1: The YNAK AK22A monitor placed on a table, illustrating its portability and 8-hour battery life for wireless monitoring.

4.2 Placement

Place the monitor in a central location within the area you wish to monitor. Ensure it is not obstructed and has adequate airflow. Avoid placing it near direct heat sources, open windows (which can cause rapid temperature/humidity changes), or areas with strong odors that could interfere with sensor readings.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press and hold the Power button to turn the device on or off.

5.2 Understanding the Display

The 7-inch LED display provides a clear, comprehensive view of all monitored parameters:

- **PM1.0, PM2.5, PM10:** Particulate Matter concentrations in $\mu\text{g}/\text{m}^3$.

- **CO2:** Carbon Dioxide levels in ppm.
- **HCHO:** Formaldehyde concentration in mg/m³.
- **TVOC:** Total Volatile Organic Compounds in mg/m³.
- **TEMP:** Temperature reading.
- **HUMI:** Humidity percentage.
- **AQI:** Air Quality Index, with a color-coded bar indicating levels.
- **Time:** Current time.

5.3 Time Adjustment

1. **Switch Time Format:** Click the 'Time button' to toggle between 12-hour and 24-hour formats.
2. **Set Hours:** Long press the 'Time button' to enter setting mode. Use the 'Alarm button' or 'Brightness button' to adjust the hours.
3. **Set Minutes:** Click the 'Time button' again. Use the 'Alarm button' or 'Brightness button' to adjust the minutes.
4. **Confirm:** Click the 'Time button' to save the settings.

5.4 Temperature Unit Switching (°F/°C)

Simply click the 'Power button' to switch between Fahrenheit (°F) and Celsius (°C) temperature units.

5.5 AQI Alert System

The monitor features a real-time AQI alert system with 7 distinct alert functions for various pollutants. It provides visual and audible alerts when pollution levels exceed safe thresholds. A tri-color alarm system (Good, OK, Poor) is integrated into the display.

Tri-Color Alarm System with Audible Alerts

Receive real-time visual and audible alerts at severe pollution levels

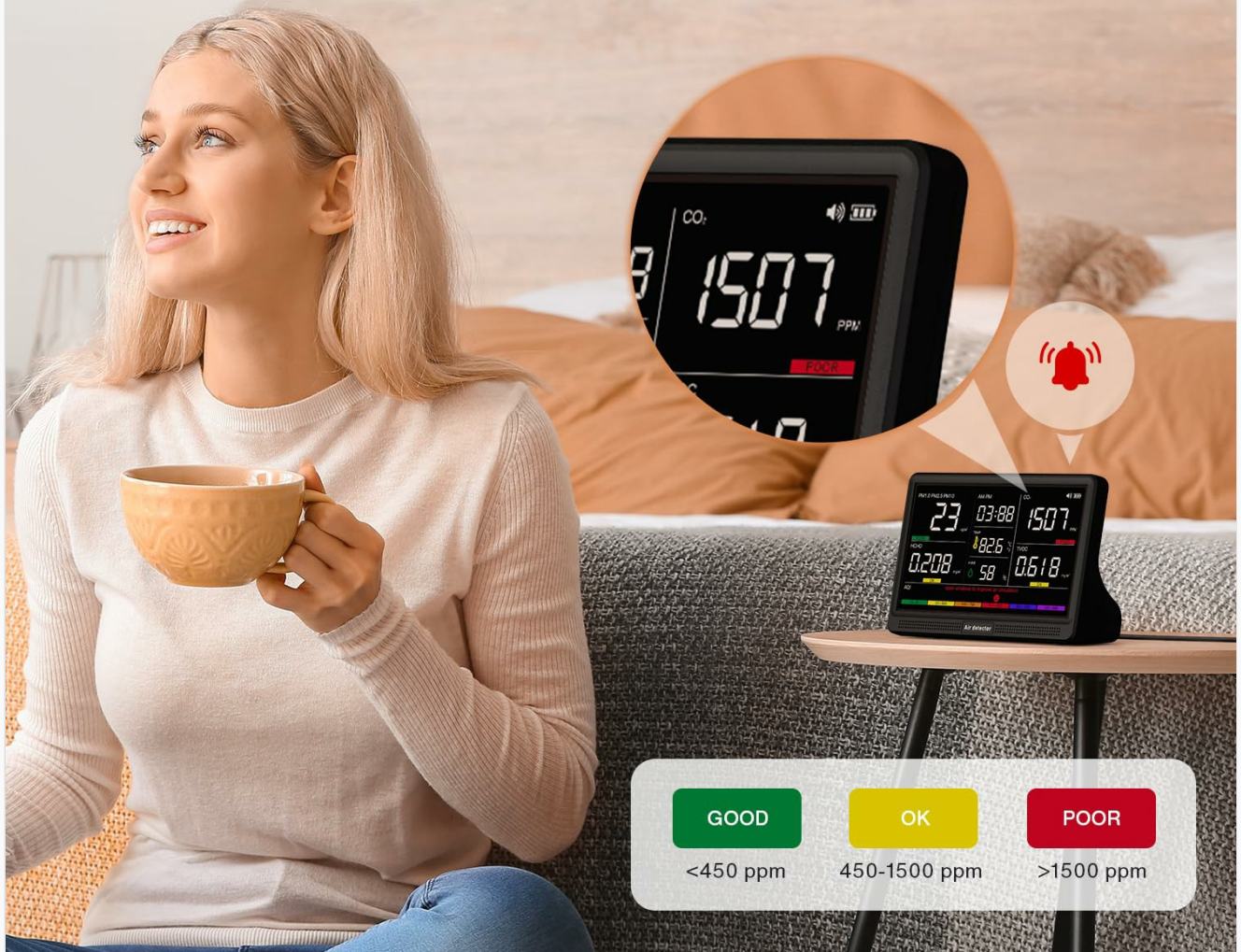


Image 5.1: The monitor displaying a 'Poor' CO2 reading with an audible alarm icon, demonstrating the tri-color alarm system and real-time alerts.

To silence alarms, use the mute button.

5.6 Brightness Control

The 7-inch display offers three brightness settings for optimal visibility in various lighting conditions.

7" Large Display with 3-Level Brightness Control



Image 5.2: Visual representation of the three adjustable brightness levels available on the monitor's 7-inch display.

5.7 Auto Recalibration and One-Click Reset

The device supports auto-recalibration to maintain precision. For quick readings or after significant environmental changes, a one-click reset function is available.

The sensors are highly sensitive. Avoid interference from strong odors such as perfumes, air fresheners, or cleaning agents when the device is operating, as these can affect readings. Do not touch the external sensors or block the air intake holes.

7. TROUBLESHOOTING

- **Device not turning on:** Ensure the device is fully charged. Connect it to the charging adapter and try again.
- **Inaccurate readings:** Perform a one-click reset (long-press Power button). Ensure the device is not exposed to strong odors or extreme environmental conditions. Check for any obstructions to the air vents.
- **Display issues:** Adjust brightness settings. If the display remains unresponsive or faulty, contact customer support.
- **Short battery life:** Ensure the device is fully charged. Battery performance may degrade over time with extensive use.

8. SPECIFICATIONS

Feature	Specification
Brand	YNAK
Model Number	AK22A
Display	7-inch LED
Monitored Parameters	CO ₂ , TVOC, PM _{2.5} , PM _{1.0} , PM ₁₀ , HCHO, Temperature, Humidity, AQI, Time
Temperature Accuracy	±1 to ±3 °F
Humidity Accuracy	±2% to ±3%RH
Air Sensor Accuracy	0.001 units
Battery	2500mAh Lithium Polymer (included)
Battery Life	Up to 8 hours (cordless use)
Item Weight	600 g
Package Dimensions	19.89 x 14.4 x 7.19 cm
Country of Origin	China

9. WARRANTY AND CUSTOMER SUPPORT

Your YNAK AK22A Air Quality Monitor comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package for specific terms and conditions.

For any queries, technical assistance, or support, please contact our customer service team. Our support team is available to assist you within 24 hours.

Contact Information: Please refer to the contact details provided on the product packaging or the official YNAK website.

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