Product Manual

PROTECT YOUR AIR

The product is multifunctional. It is not an air quality monitor that continuously monitors the air and displays the results in real time. It is an air purifier that cleans the air in the room. The air quality sensor is used to automatically activate the air purifier when the air quality deteriorates. The air quality sensor is not designed to measure the air quality in real time or to digitally display. For more information on air quality, please see page 10.

GET STARTED - HOW TO USE

STEP 1: Power On

- Plug the power cord into a wall outlet.
- Press the power button on the control panel.

STEP 2: Choose Your Mode

- Select the mode you want.
- The first time, using the mode may delay the time for activation of the main unit.

STEP 3: Enjoy

- Sit back and enjoy, enjoy the cleaner breathe of energy and quality rooms in your house!

TIME /TEMPERATURE ADJUSTMENT & CHARGING

Time Adjustment

- Press and hold the button for about 3 seconds to enter the time setting mode. The ▲ and ▼ buttons will flash to indicate that the time can be adjusted.
- Press the ▲ or ▼ button to adjust the time in increments of 15 minutes each. It is not necessary to adjust the time if you do not want to use the timer function.
- Press and hold the button for about 3 seconds to exit the time setting mode. The ▲ and ▼ buttons will stop flashing.

Temperature Unit

- Press and hold the button for about 3 seconds. To activate the temperature unit setting mode. The ▲ and ▼ buttons will flash to indicate that the temperature unit can be adjusted.
- Press and hold the ▲ or ▼ button for about 3 seconds to switch between °C and °F.
- Press and hold the button for about 3 seconds to exit the temperature unit setting mode. The ▲ and ▼ buttons will stop flashing.

Brightness settings

- Press and hold the button for about 3 seconds to enter the brightness setting mode. The ▲ and ▼ buttons will flash to indicate that the brightness can be adjusted.
- Press the ▲ or ▼ button to adjust the brightness in increments of 10%, from 10% to 100%.
- Press and hold the button for about 3 seconds to exit the brightness setting mode. The ▲ and ▼ buttons will stop flashing.

Charging

- Connect the power cord to a power source.
- Press and hold the button for about 3 seconds to enter the charging mode. The ▲ and ▼ buttons will flash to indicate that the charging mode can be adjusted.
- Press and hold the ▲ or ▼ button for about 3 seconds to switch between charging modes.
- Press and hold the button for about 3 seconds to exit the charging mode. The ▲ and ▼ buttons will stop flashing.

AUTO RECALIBRATION

The device can also be recalibrated so you do not have to worry whether it has been recalibrated recently. Auto recalibration is set to 7 days by default. This can be changed to 14 days or 30 days.

MANUAL RECALIBRATION

Manual recalibration can be performed at any time.

- Press and hold the ▲ and ▼ buttons for about 3 seconds to enter the recalibration mode. The ▲ and ▼ buttons will flash.
- Press and hold the ▲ or ▼ button for about 3 seconds to switch between auto recalibration and manual recalibration.
- Press and hold the button for about 3 seconds to exit the recalibration mode. The ▲ and ▼ buttons will stop flashing.

TIPS

Tip 1: Cold Readings? Try This

- Turn off the device.
- Wait for 5 minutes.
- Turn the device back on.

Tip 2: Keep Your Device Clean

- Take the device outside or wipe it with a cloth to let the exterior clean as protected.
- Clean the air inlet and outlet regularly.

Tip 3: Keep Your Device Away from Heat Sources

The sensitivity readings are changed around the. For a good result, keep it well off the heat sources, such as radiators, stoves, and direct sunlight. Also, avoid placing it in areas with high humidity.

Tip 4: Avoid Placing Your Device in Enclosed Spaces

To allow for good airflow around the device, do not place it in enclosed spaces, such as cabinets or drawers. Keep it in open areas for the best results.

How To Interpret Readings

Color	Air Quality Index	PM2.5 (μg/m³)	PM10 (μg/m³)
Blue	Good	0-35	0-50
Green	Moderate	36-75	51-150
Yellow	Unhealthy for Sensitive Groups	76-115	151-250
Orange	Unhealthy	116-150	251-350
Red	Very Unhealthy	151-250	351-420
Purple	Hazardous	251+	421+

MAINTENANCE

UNDERSTANDING YOUR AIR QUALITY: CO2 LEVELS

What is Carbon Dioxide (CO2)?

Carbon dioxide is a colorless, odorless gas with a slightly acidic taste. When it comes to your health, carbon dioxide is a natural component of the air we breathe. It is also produced by the human body during respiration. Carbon dioxide is also produced by burning fossil fuels, such as coal, oil, and natural gas.

How CO2 Affects You

- **Low Levels:** At low levels, carbon dioxide is not harmful to your health.
- **Moderate Levels:** At moderate levels, carbon dioxide can cause headaches, dizziness, and fatigue.
- **High Levels:** At high levels, carbon dioxide can be fatal.

Carbon Dioxide Sources of High CO2:

- **Human Respiration:** Humans exhale carbon dioxide as a waste product.
- **Burning Fossil Fuels:** Burning fossil fuels releases carbon dioxide into the atmosphere.
- **Deforestation:** Trees absorb carbon dioxide from the atmosphere. Deforestation reduces the number of trees that can absorb carbon dioxide.
- **Industrial Processes:** Some industrial processes release carbon dioxide as a byproduct.

How to Reduce Carbon Dioxide Levels:

- **Ventilation:** Open windows and doors to allow fresh air to enter and circulate.
- **Air Purifiers:** Use air purifiers with activated carbon filters to remove carbon dioxide from the air.
- **Plants:** Plants absorb carbon dioxide and release oxygen through photosynthesis.
- **Reduce Fossil Fuel Use:** Use less fossil fuels by driving less, using public transportation, or switching to renewable energy sources.

UNDERSTANDING YOUR AIR QUALITY: TOTAL VOLATILE ORGANIC COMPOUNDS (TVOC)

What is TVOC?

TVOC stands for Total Volatile Organic Compounds. It is a measure of the total concentration of volatile organic compounds (VOCs) in the air. VOCs are a group of chemicals that can evaporate into the air at room temperature.

How TVOC Affects You

- **Short-term exposure:** Can cause irritation to the eyes, throat, and nose. Headaches, dizziness, and nausea. Difficulty breathing. Allergic reactions in some people.
- **Long-term exposure:** Can damage the liver, kidneys, and central nervous system. Increased risk of cancer.

Common Sources of High TVOC:

- **Building Materials:** Paints, varnishes, and adhesives. Carpets and flooring. Insulation.
- **Furnishings:** Furniture, especially new furniture. Upholstery and fabrics.
- **Household Products:** Cleaning products. Air fresheners. Personal care products.
- **Office Equipment:** Printers and copiers. Computers.
- **Outdoor Sources:** Vehicle exhaust. Industrial emissions. Pesticides.

How to Reduce TVOC Levels:

- **Ventilation:** Open windows and doors to allow fresh air to enter and circulate.
- **Air Purifiers:** Use air purifiers with activated carbon filters to remove TVOC from the air.
- **Choose Low-VOC Products:** Look for paints, varnishes, and other products labeled as low-VOC or zero-VOC.
- **Avoid Strong Odors:** Avoid products that release strong odors, such as air fresheners and scented candles.
- **Proper Storage:** Store chemicals and solvents in tightly sealed containers in well-ventilated areas.

UNDERSTANDING YOUR AIR QUALITY: FORMALDEHYDE (HCHO)

What is Formaldehyde?

Formaldehyde is a colorless, flammable gas with a strong, pungent odor. It is naturally produced by the human body and is also found in many everyday products.

How Formaldehyde Affects You

- **Short-term exposure:** Can cause irritation to the eyes, throat, and nose. Headaches, dizziness, and nausea. Difficulty breathing. Allergic reactions in some people.
- **Long-term exposure:** Can damage the liver, kidneys, and central nervous system. Increased risk of cancer.

Common Sources of High Formaldehyde:

- **Building Materials:** Pressed wood products, such as plywood, particleboard, and fiberboard. Insulation. Paints and varnishes.
- **Furnishings:** Furniture, especially new furniture. Upholstery and fabrics. Carpets and flooring.
- **Household Products:** Cleaning products. Air fresheners. Personal care products.
- **Combustion Sources:** Tobacco smoke. Gas stoves. Fireplaces.

How to Reduce Formaldehyde Levels:

- **Ventilation:** Open windows and doors to allow fresh air to enter and circulate.
- **Air Purifiers:** Use air purifiers with activated carbon filters to remove formaldehyde from the air.
- **Choose Low-Formaldehyde Products:** Look for products labeled as low-formaldehyde or zero-formaldehyde.
- **Avoid Strong Odors:** Avoid products that release strong odors, such as air fresheners and scented candles.
- **Proper Storage:** Store chemicals and solvents in tightly sealed containers in well-ventilated areas.

UNDERSTANDING YOUR AIR QUALITY: PARTICULATE MATTER PM2.5

What is PM2.5?

PM2.5 stands for particulate matter with a diameter of 2.5 micrometers or less. These particles are so small that they can be inhaled deep into the lungs and even enter the bloodstream.

How PM2.5 Affects You

- **Short-term exposure:** Can cause irritation to the eyes, throat, and nose. Coughing and shortness of breath. Asthma attacks. Heart attacks.
- **Long-term exposure:** Can damage the lungs and heart. Increased risk of lung cancer, heart disease, and stroke.

Common Sources of High PM2.5:

- **Combustion:** Burning fossil fuels, such as coal, oil, and gas. Wildfires. Vehicle exhaust.
- **Industrial Processes:** Manufacturing. Construction. Mining.
- **Natural Sources:** Dust storms. Volcanoes.
- **Indoor Sources:** Cooking. Smoking. Burning candles or incense.

How to Reduce PM2.5 Levels:

- **Ventilation:** Open windows and doors to allow fresh air to enter and circulate.
- **Air Purifiers:** Use air purifiers with HEPA filters to remove PM2.5 from the air.
- **Avoid Strong Odors:** Avoid products that release strong odors, such as air fresheners and scented candles.
- **Proper Storage:** Store chemicals and solvents in tightly sealed containers in well-ventilated areas.

UNDERSTANDING YOUR AIR QUALITY: PARTICULATE MATTER PM10

What is PM10?

PM10 stands for particulate matter with a diameter of 10 micrometers or less. These particles are larger than PM2.5 but can still be inhaled into the lungs and cause health problems.

How PM10 Affects You

- **Short-term exposure:** Can cause irritation to the eyes, throat, and nose. Coughing and shortness of breath. Asthma attacks.
- **Long-term exposure:** Can damage the lungs and heart. Increased risk of lung cancer, heart disease, and stroke.

Common Sources of High PM10:

- **Combustion:** Burning fossil fuels, such as coal, oil, and gas. Wildfires. Vehicle exhaust.
- **Industrial Processes:** Manufacturing. Construction. Mining.
- **Natural Sources:** Dust storms. Volcanoes.
- **Indoor Sources:** Cooking. Smoking. Burning candles or incense.

How to Reduce PM10 Levels:

- **Ventilation:** Open windows and doors to allow fresh air to enter and circulate.
- **Air Purifiers:** Use air purifiers with HEPA filters to remove PM10 from the air.
- **Avoid Strong Odors:** Avoid products that release strong odors, such as air fresheners and scented candles.
- **Proper Storage:** Store chemicals and solvents in tightly sealed containers in well-ventilated areas.

UNDERSTANDING YOUR AIR QUALITY: PARTICULATE MATTER PM1

What is PM1?

PM1 stands for particulate matter with a diameter of 1 micrometer or less. These particles are the smallest and most dangerous type of particulate matter. They can easily be inhaled deep into the lungs and even enter the bloodstream.

How PM1 Affects You

- **Short-term exposure:** Can cause irritation to the eyes, throat, and nose. Coughing and shortness of breath. Asthma attacks.
- **Long-term exposure:** Can damage the lungs and heart. Increased risk of lung cancer, heart disease, and stroke.

Common Sources of High PM1:

- **Combustion:** Burning fossil fuels, such as coal, oil, and gas. Wildfires. Vehicle exhaust.
- **Industrial Processes:** Manufacturing. Construction. Mining.
- **Natural Sources:** Dust storms. Volcanoes.
- **Indoor Sources:** Cooking. Smoking. Burning candles or incense.

How to Reduce PM1 Levels:

- **Ventilation:** Open windows and doors to allow fresh air to enter and circulate.
- **Air Purifiers:** Use air purifiers with HEPA filters to remove PM1 from the air.
- **Avoid Strong Odors:** Avoid products that release strong odors, such as air fresheners and scented candles.
- **Proper Storage:** Store chemicals and solvents in tightly sealed containers in well-ventilated areas.

UNDERSTANDING YOUR AIR QUALITY: AIR QUALITY INDEX (AQI)

What is AQI?

AQI stands for Air Quality Index. It is a measure of how clean or polluted the air is. The AQI is calculated using the concentrations of five major air pollutants: ozone, particulate matter, carbon monoxide, sulfur dioxide, and nitrogen dioxide.

How AQI Affects You

- **Good (0-50):** Air quality is considered satisfactory, and air pollution poses little or no risk.
- **Moderate (51-100):** Air quality is acceptable; however, some pollutants may be a concern for a small number of people who are unusually sensitive to air pollution.
- **Unhealthy for Sensitive Groups (101-150):** Members of sensitive groups may experience health effects. The general public is not likely to be affected.
- **Unhealthy (151-200):** Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.
- **Very Unhealthy (201-300):** Health warnings of emergency conditions. The entire population is more likely to be affected.
- **Hazardous (301+):** Health alert: everyone may experience more serious health effects.

Common Causes of High AQI:

- **Ozone:** Ozone is formed when pollutants from vehicles, power plants, and industrial facilities react in the presence of sunlight.
- **Particulate Matter:** Particulate matter is made up of tiny particles of solid or liquid matter suspended in the air.
- **Carbon Monoxide:** Carbon monoxide is a colorless, odorless gas that is produced by the incomplete combustion of fuels.
- **Sulfur Dioxide:** Sulfur dioxide is a colorless gas with a pungent odor that is produced by the burning of fossil fuels.
- **Nitrogen Dioxide:** Nitrogen dioxide is a reddish-brown gas that is produced by the burning of fossil fuels.

How to Reduce AQI:

- **Reduce Vehicle Emissions:** Use public transportation, carpool, walk, or bike instead of driving.
- **Avoid Burning:** Refrain from burning fossil fuels, such as coal, gasoline, or diesel.
- **Support Clean Energy:** Use renewable energy sources, such as solar or wind power.

UNDERSTANDING YOUR AIR QUALITY: AIR PURIFIER

Tips to Breathe Cleaner Air

- **Ventilation:** Open windows and doors to allow fresh air to enter and circulate.
- **Air Purifiers:** Use air purifiers with HEPA filters to remove pollutants from the air.
- **Avoid Smoking:** Refrain from smoking indoors and in enclosed spaces.
- **Control Humidity:** Maintain a humidity level between 30% and 50%.
- **Clean Regularly:** Dust and vacuum regularly to remove dust and allergens.

Tips for Purchasing an Air Purifier

- **Consider Your Needs:** Choose an air purifier that is appropriate for the size of your room or home.
- **Look for HEPA Filters:** HEPA filters are the most effective type of air purifier.
- **Consider Additional Features:** Some air purifiers have additional features, such as activated carbon filters, ionizers, or UV-C light.
- **Read Reviews:** Read reviews from other customers before making a purchase.

Tips for Using an Air Purifier

- **Place in the Right Location:** Place the air purifier in a location where it can draw in clean air.
- **Change Filters Regularly:** Follow the manufacturer's instructions for changing filters.
- **Clean Regularly:** Clean the air purifier regularly to prevent dust and allergens from building up.

UNDERSTANDING YOUR AIR QUALITY: AIR PURIFIER

How HEPA Filters Work

HEPA filters are made of a dense mesh of fibers. As air passes through the filter, particles are trapped in the fibers. The smaller the particle, the more likely it is to be trapped.

Tips for Choosing a HEPA Filter

- **Look for True HEPA:** Some filters are labeled as "HEPA-like" or "HEPA-type." These filters may not be as effective as true HEPA filters.
- **Consider the Size:** Choose a filter that is the right size for your air purifier.
- **Check the Rating:** Look for a filter with a high MERV rating.

How to Maintain a HEPA Filter

- **Change Regularly:** Follow the manufacturer's instructions for changing filters.
- **Vacuum Regularly:** Vacuum the filter regularly to remove dust and debris.
- **Avoid Moisture:** Keep the filter dry to prevent mold growth.

UNDERSTANDING YOUR AIR QUALITY: AIR PURIFIER

Tips to Breathe Cleaner Air

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UNDERSTANDING YOUR ENVIRONMENT: TIME

- While the measurement of time is self-explanatory, its impact on the health of the environment is not as obvious as the impact of other factors.
- Time can affect the environment in a number of ways, including the aging of materials, the degradation of ecosystems, and the accumulation of pollutants.

CONSIDERATIONS & PRECAUTIONS

- Be aware of the time of day when you are outdoors.
- Avoid prolonged exposure to the sun during the hottest hours of the day.
- Wear a hat or use an umbrella for optimal performance.

UNDERSTANDING YOUR ENVIRONMENT: HUMIDITY

What is Humidity?

Humidity is the amount of water vapor in the atmosphere.

How Humidity Affects You

- **Low Humidity:** Can cause dry skin, irritated eyes, and respiratory problems.
- **High Humidity:** Can cause mold growth, allergies, and respiratory problems.
- **Extremely High Humidity:** Can cause heat exhaustion and heat stroke.

Common Causes of High Humidity:

- **Weather:** Humidity is naturally higher in certain seasons and regions.
- **Indoor Activities:** Cooking, showering, and drying clothes can increase humidity levels indoors.
- **Poor Ventilation:** Lack of ventilation can trap moisture indoors.

How to Reduce Humidity Levels:

- **Ventilation:** Open windows and doors to allow fresh air to enter and circulate.
- **Dehumidifiers:** Use dehumidifiers to remove moisture from the air.
- **Air Conditioning:** Air conditioners can also help to reduce humidity levels.
- **Avoid Indoor Activities:** Avoid activities that can increase humidity levels indoors, such as cooking and showering.

UNDERSTANDING YOUR ENVIRONMENT: TEMPERATURE

- While the measurement of temperature is self-explanatory, its impact on the health of the environment is not as obvious as the impact of other factors.
- Temperature can affect the environment in a number of ways, including the aging of materials, the degradation of ecosystems, and the accumulation of pollutants.

CONSIDERATIONS & PRECAUTIONS

- Be aware of the temperature of the day when you are outdoors.
- Avoid prolonged exposure to the sun during the hottest hours of the day.
- Wear a hat or use an umbrella for optimal performance.

Avoid Touching the Temperature Sensor Directly

- **Environmental Factors:** Avoid exposing the temperature sensor to extreme temperatures, humidity, or direct sunlight.
- **Cleaning Tools:** Use a soft, dry cloth or a cleaning tool specifically designed for temperature sensors to clean the sensor.
- **Cleaning Solutions:** Avoid using harsh chemicals or cleaning solutions that can damage the sensor.
- **Cleaning Frequency:** Clean the sensor regularly to maintain its accuracy.
- **DO NOT** use a cloth or other object to wipe the sensor to prevent electrical damage.
- **DO NOT** use water or other liquids to clean the sensor to prevent damage.
- **DO NOT** use harsh chemicals or abrasive cleaners to clean the sensor.
- **DO NOT** use any tool or implement that contacts, or may damage the sensor or its protective coating.

PRODUCT SPECIFICATIONS

Item	Air Quality Monitor
Model Number	Air Quality Monitor Battery
Battery	3000 mAh
Display	1.44 inch Color Screen
Sensor	PM2.5
Display Method	LCD IPS Screen
Power Supply	Type-C USB
Operating Temperature	14°F~122°F (-10°C~50°C)
Storage Temperature	14°F~122°F (-10°C~50°C)

WARNING:

Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions. Do not dispose of batteries in a fire or a hot oven, or mechanically crush or cut a battery, which can result in an explosion. Do not leave a battery in an extremely high temperature surrounding environment, which can result in an explosion or the leakage of flammable liquid or gas. Do not subject a battery to extremely low air pressure, which may result in an explosion or the leakage of flammable liquid or gas.

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