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Wolf Guard HD12

Wolf Guard HD12 4-in-1 Carbon Monoxide and Combustible Gas Detector
User Manual

Model: HD12

1. INTRODUCTION

The Wolf Guard HD12 is an advanced 4-in-1 detector designed for household safety. It continuously monitors for carbon monoxide (CO) and various combustible gases, including natural gas, LPG, methane, ethane, propane, and butane. Additionally, it features integrated sensors for real-time temperature and humidity display. Equipped with high-performance electrochemical and semiconductor sensors, this device provides rapid and accurate detection. A built-in 1000mAh rechargeable lithium battery ensures emergency power supply during outages, maintaining continuous protection.



This image shows the front of the Wolf Guard HD12 detector, highlighting its digital display with readings for carbon monoxide (CO), combustible gas, humidity percentage, and temperature in Fahrenheit. It also indicates battery level and an audible alarm icon.

2. SETUP AND INSTALLATION

The Wolf Guard HD12 detector is designed for simple plug-and-play installation. Follow these steps for proper setup:

1. **Unpacking:** Carefully remove the detector from its packaging.
2. **Power Connection:** Plug the device directly into a standard household electrical outlet. The device will automatically power on and begin its initial self-check.
3. **Optimal Placement:**
 - For **combustible gases** (like natural gas, methane, which are lighter than air), install the detector in a high position, approximately 30 cm (12 inches) from the ceiling and within 1.5 meters (5 feet) of potential gas sources.
 - For **LPG/butane/propane** (which are heavier than air), install the detector in a low position, approximately 30 cm (12 inches) from the floor and within 1.5 meters (5 feet) of potential gas sources.
 - For **carbon monoxide (CO)**, install the detector at a height between 1.5 meters (5 feet) and 2.5 meters (8 feet) from the floor, in areas where CO is likely to accumulate, such as near fuel-burning appliances. Avoid placing it directly above heat

sources or in areas with high airflow.

4. **Orientation:** The detector can be rotated to accommodate different outlet orientations (0, 90, 180, 270 degrees) for optimal display visibility.

DIRECT INSERTION COMBINED CARBON MONOXIDE DETECTOR

Real time monitoring of gas concentration

high precision sensors

High definition colorful large screen

Audible and visual alarm

Fault self check

Plug and play



NEW

The detector is shown plugged into a standard electrical outlet, demonstrating its direct insertion design. The screen displays current CO and gas concentration levels, along with humidity and temperature.

WOLF-Guard®

PLUG & PLAY 4 IN 1

Detector de Monóxido de Carbono

Batería de emergencia incorporada



CO



GAS



Temp



Humedad



Batería



This image provides an overview of the detector's core functionalities, indicating its ability to detect Carbon Monoxide (CO), combustible gases, temperature, and humidity, along with its emergency battery feature.



This image demonstrates the detector's ability to rotate for optimal placement in outlets, showing its display in both standard (0-degree) and 90-degree rotated positions.



This image further illustrates the detector's rotational flexibility, displaying its appearance when rotated 270 degrees and 180 degrees to accommodate various wall outlet configurations.

3. OPERATION

3.1 Display Information

The 2.8-inch HD color screen provides clear, real-time readings:

- **CO PPM:** Carbon Monoxide concentration in parts per million.
- **GAS:** Combustible gas presence indicator.
- **Humidity:** Relative humidity percentage.
- **Temperature:** Ambient temperature (Celsius or Fahrenheit).
- **Battery Icon:** Indicates the charge level of the built-in emergency battery.
- **Speaker Icon:** Indicates the status of the audible alarm.
- **Sun Icon:** Indicates screen brightness level.

2.8 INCH HD COLOR SCREEN DISPLAY

Combustible gas/CO concentration is clear and clear

IPS

Ultra broad
perspective

240*296

resolving
power

HD Display

Fashionable
color screen



A detailed view of the 2.8-inch HD color screen, emphasizing its clarity and broad perspective (IPS technology). It displays CO and gas concentrations, humidity, and temperature, with a resolution of 240x296.

3.2 Button Functions

The device features three control buttons:

- **Power Button (Left):**
 - **Short Press:** Initiates a self-check of the device.
 - **Long Press:** Powers the device on or off.
- **Buzzer Button (Middle):**
 - **Short Press:** Activates or deactivates the audible buzzer.
- **Screen Brightness Button (Right):**
 - **Short Press:** Adjusts the screen brightness.
 - **Long Press:** Changes the temperature unit between Celsius and Fahrenheit.



A clear diagram detailing the functions of each button: Power (short press for self-check, long press for on/off), Buzzer (short press to activate/deactivate), and Screen Brightness (short press to adjust, long press to change temperature unit).

3.3 Alarm Indications

The detector provides both audible and visual alarms:

- **Green Light:** Indicates normal operation and continuous monitoring of gas concentration.
- **Red Light / Audible Alarm:** Activated when CO or combustible gas concentration exceeds safe levels. This also indicates a mute error or sensor malfunction.

The sensors operate every 2 seconds for frequent and rapid detection. An alarm is triggered immediately if CO concentration exceeds 50 ppm or if combustible gas is detected.

INTELLIGENT POWER INDICATOR LIGHT

Self testing fault is clear at a glance



Green light (screen off and indicator light on)

Indicates normal operation and gas concentration monitoring.

Red light (alarm)

There is a mute error or sensor malfunction.

Short press to self test

This image illustrates the intelligent power indicator light system. A green light signifies normal operation and continuous monitoring, while a red light indicates an alarm, mute error, or sensor malfunction. The self-test button is highlighted for quick system checks.

SOUND AND LIGHT ALARM TO PREVENT DANGER

One click start for real-time monitoring

Drip~

Drip~



The detector's screen shows a high CO reading (350 ppm) with a flame icon, indicating a dangerous level of carbon monoxide. The visual alarm is accompanied by text "Drip~ Drip~" suggesting an audible alert.

3.4 Detection Phases for CO/Gas

The device indicates gas and CO levels through three distinct phases:

- **Security (0 - 50 ppm):** No alarm, green light.
- **Warning (51 - 200 ppm):** Yellow flashing light, audible alarm.
- **Danger (201 - 999 ppm):** Red flashing light, loud audible alarm.

3 Fases de Deteccion de CO/GAS

Seguridad



0 - 50 ppm

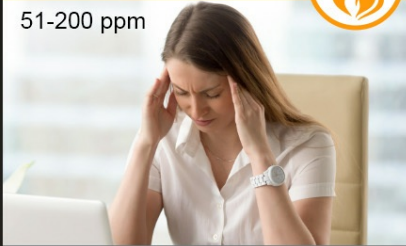


sin alarma, verde

Advertencia



51-200 ppm



luz de parpadeo amarillo

Peligro



201 - 999 ppm



luz de parpadeo rojo

This graphic explains the three alert phases: *Security* (0-50 ppm, no alarm, green light), *Warning* (51-200 ppm, yellow flashing light), and *Danger* (201-999 ppm, red flashing light).

3.5 Emergency Power Supply

The integrated 1000mAh rechargeable lithium battery acts as an emergency power source. In case of a sudden power failure, the device automatically switches to battery power, ensuring continuous monitoring and protection.

4. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your detector:

- **Regular Self-Check:** Perform a self-check weekly by short-pressing the Power button to ensure all functions are operating correctly.
- **Cleaning:** Gently wipe the exterior of the detector with a soft, dry cloth. Do not use cleaning agents, solvents, or abrasive materials, as these can damage the sensors or casing. Avoid spraying cleaners directly onto the device.
- **Sensor Lifespan:** The high-performance sensors in this device have an estimated lifespan of approximately 5 years. After this period, consider replacing the unit to ensure continued accuracy and reliability.
- **Avoid Obstructions:** Ensure that the ventilation openings on the detector are not blocked by dust, dirt, or other objects.

HIGH PRECISION SENSORS

Sensitive and stable
detection performance



This image provides an internal look at the detector, revealing its high-precision sensors designed for sensitive and stable detection performance. The built-in 1000mAh rechargeable lithium battery is also visible.

5. TROUBLESHOOTING

If your detector is not functioning as expected, refer to the following common issues and solutions:

- **Alarm Sounds Without Apparent Danger:**

- **Check for Hidden Sources:** Carbon monoxide is odorless and invisible. Check for potential CO sources such as faulty furnaces, water heaters, gas stoves, or vehicle exhaust.
- **Combustible Gas Leaks:** For gas alarms, check for leaks from gas appliances, pipes, or cylinders.
- **Environmental Factors:** High humidity or certain aerosols can sometimes trigger false alarms. Ventilate the area.
- **Test Procedure:** Follow the testing procedure outlined in section 3.6 to confirm sensor functionality.

- **Red Light Indicator / Sensor Malfunction:**

- If the red light indicates a sensor malfunction, perform a self-check. If the issue persists, the sensor may need replacement or the unit may require servicing.

- **No Power / Display Off:**

- **Check Power Outlet:** Ensure the detector is securely plugged into a functioning electrical outlet.
- **Power Outage:** If there is a power outage, the device should switch to its internal emergency battery. If the battery is depleted, the device will not operate until main power is restored or the battery is recharged.

5.1 How to Test the Detector

To verify the detector's functionality, you can perform a simple test:

1. **Step 1:** Press the Power button briefly to initiate the self-check. The device should respond with visual and audible cues.
2. **Step 2 (CO Test):** Carefully bring a lit cigarette or a small amount of smoke near the CO sensor. The CO reading should increase, and an alarm may sound if the concentration reaches warning levels.
3. **Step 3 (Gas Test):** Carefully bring a gas lighter (without igniting the flame) or a small amount of combustible gas near the gas sensor. The gas indicator should activate, and an alarm may sound.

Caution: Perform these tests briefly and in a well-ventilated area. Do not expose the detector to excessive amounts of gas or smoke.



This image provides a visual guide on how to perform a functional test of the detector. Step 1: Press the Power button for self-check. Step 2: Place a lit cigarette near the detector. Step 3: Place a lighter near the detector.

5.2 Potential Sources of CO

Understanding common sources of carbon monoxide can help prevent exposure:

- Idling automobile engines in an attached garage.
- Portable generators.
- Corroded or detached water heater exhaust pipes.
- Portable kerosene or gas heaters.
- Cracked or loose furnace heat exchangers.
- Incorrect kitchen hood installation.
- Indoor or garage grilling.
- Gas or wood-burning fireplaces.



This image lists common sources of carbon monoxide, including idling car engines in garages, portable generators, corroded water heater exhaust pipes, portable kerosene/gas heaters, cracked furnace heat exchangers, incorrect kitchen hood installation, indoor/garage grilling, and wood-burning fireplaces.

6. SPECIFICATIONS

Model Number	HD12
Manufacturer	Shenzhen Huidu Technology Co., Ltd.
Product Dimensions	3.5 x 5 x 8 cm
Product Weight	150 g
Power Source	Electric Cable (Plug-in)
Voltage	5 Volts
Battery Type	Built-in rechargeable Lithium-Ion (1000mAh for emergency power)
Sensor Type	Electrochemical (CO), Semiconductor (Combustible Gas)
Alarm Type	Audible and Visual
Color	Black
Sensor Lifespan	Approximately 5 years

7. WARRANTY INFORMATION

Specific warranty details may vary by region and retailer. Please refer to the warranty card included with your product or contact the seller for precise warranty terms and conditions. Generally, Wolf Guard products are covered by a limited warranty against defects in materials and workmanship under normal use.

8. CUSTOMER SUPPORT

For technical assistance, troubleshooting, or any questions regarding your Wolf Guard HD12 detector, please contact your retailer or the manufacturer’s customer support. Contact information can typically be found on the product packaging or the official Wolf Guard website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

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