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CSCL HD 15

CSCL HD 15 5-in-1 Carbon Monoxide, Natural Gas, & Smoke Detector User Manual

Model: HD 15 | Brand: CSCL

Introduction

The CSCL HD 15 is a versatile 5-in-1 safety device designed to monitor multiple environmental factors. It integrates detection for carbon monoxide (CO), combustible natural gas, and smoke, alongside displaying real-time temperature and humidity levels. This device is engineered to provide early warnings through a dual sound-and-light alarm system, enhancing safety in various environments such as homes, RVs, and during travel.



Image: Overview of the CSCL HD 15 5-in-1 detector's monitoring functions.

Setup and Installation

Initial Setup

1. **Unpacking:** Carefully remove the detector from its packaging. Ensure all components, including the 5-in-1 Detector, Magnet Cap, Owner's Manual, and Power Plug, are present.
2. **Protective Film:** Remove any protective film from the display screen to ensure optimal clarity.

3. **Power Connection:** The device features a plug-and-play design. Insert the detector into a standard 100V–240V AC outlet. The device will begin monitoring in seconds.
4. **Warm-up Period:** After connecting to a power source, allow a 60-second warm-up period for the device to stabilize and adapt to its surroundings.
5. **Self-Diagnostic Check:** Activate the power button. The unit will initiate a self-diagnostic check to confirm full functionality of all internal components.

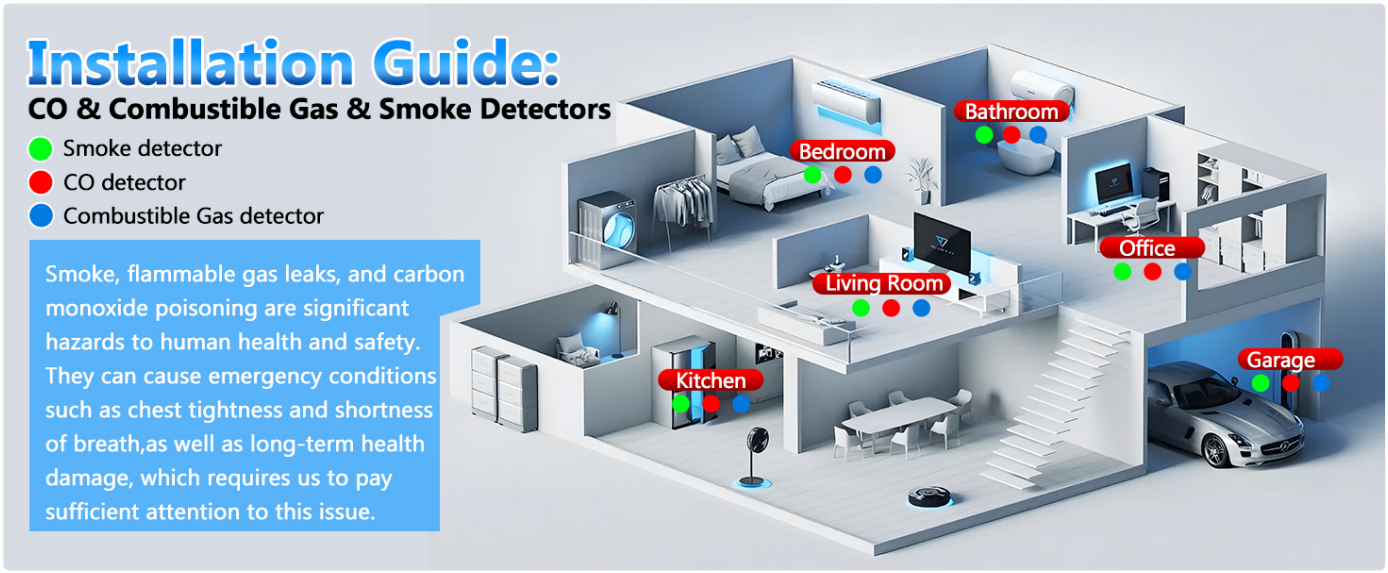


Image: The detector in a plug-and-play setup, providing real-time monitoring.

Flexible Mounting Options

The HD 15 offers flexible mounting. It can be directly plugged into an AC outlet or attached to a metal surface using its magnetic back cover after detaching the plug. A built-in 1000mAh rechargeable backup battery ensures continuous protection during power outages.



Image: Detachable plug and magnetic cap for flexible installation.

Recommended Placement

For optimal performance, install the detector in areas where potential hazards are present, such as near gas appliances, fireplaces, or in living and sleeping areas. Avoid placing it directly above heat sources, in excessively dusty or humid environments, or where it might be obstructed.



Image: Installation guide showing ideal placement for CO, gas, and smoke detection in various rooms.

Operating Instructions

Display and Indicators

The detector features a large, high-definition color screen that displays real-time data for carbon monoxide concentration (CO PPM), smoke detection, combustible gas levels, temperature (in °F or °C), and humidity (RH%). Three color-coded indicator lights provide quick status updates:

- **Green Light:** Indicates normal operation and power on.
- **Yellow Light:** Signals a device malfunction or requires inspection.
- **Red Light:** Triggers a clear danger alert, indicating a hazardous condition requiring immediate action.

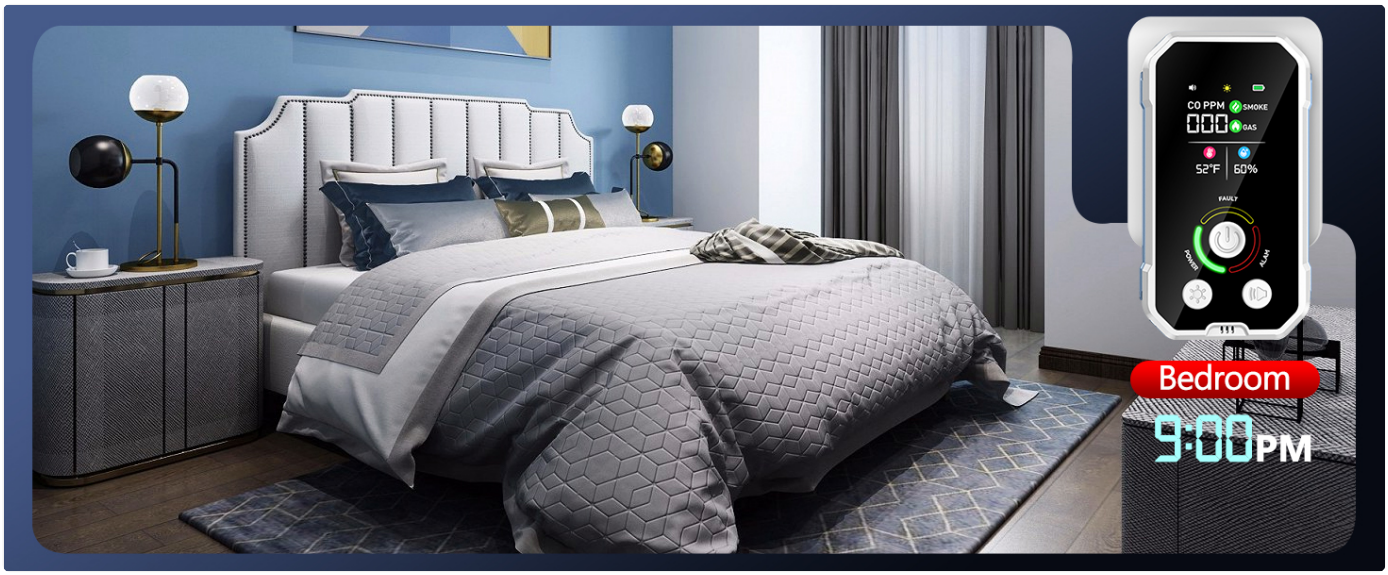


Image: Detailed explanation of the display icons and button functions.

Detection and Alarm Thresholds

The detector is equipped with a high-sensitivity electrochemical sensor for accurate and rapid detection. When gas levels exceed safety thresholds, a loud alarm (over 85 decibels) and a visual flash are activated.

- **Carbon Monoxide (CO):** Alarm triggers when CO concentration exceeds 200 PPM.
- **Natural Gas:** Alarm triggers when natural gas concentration reaches or exceeds 600 PPM.

- **Smoke:** Accurately detects smoke signals.



Image: Three-stage CO and gas detection monitoring levels and alarm conditions.



Image: The audio-visual dual alarm system in action, indicating detection of various gases.

Button Functions

- **Power Button (Center):**
  - Short press: Initiates self-test.
  - Long press: Turns the device on or off (not applicable when powered by plug).
- **Brightness Button (Left):**
  - Short press: Changes screen brightness.
  - Long press: Changes temperature unit (°F / °C).
- **Alarm Button (Right):**
  - Short press: Turns the buzzer on or off.
  - Long press: Rotates the screen display 90 degrees clockwise.

How to Test

Regular testing ensures the detector is functioning correctly.

1. **Step 1:** Click the Power Button (center button) to start a self-test. The device will perform a system check.
2. **Step 2:** To test CO detection, expose the device to a small amount of cigarette smoke. The CO PPM reading should increase, and the alarm should activate if the threshold is met.



Image: Visual guide on how to perform a self-test and CO detection test.

Maintenance

- **Cleaning:** Regularly wipe the exterior of the detector with a soft, dry cloth. Do not use cleaning sprays, polishes, or solvents, as these can damage the device or interfere with sensor operation.
- **Avoid Obstructions:** Ensure that the ventilation openings on the device are not blocked by dust, debris, or other objects.
- **Battery Check:** The device has a built-in rechargeable backup battery. While plugged in, it charges automatically. Monitor the battery level indicator on the display.
- **Environmental Factors:** Keep the device away from perfume, hairspray, synthetic alcohol, paint, steam, oil, and other chemicals to prevent false alarms or sensor damage. Avoid direct sunlight.

Troubleshooting

If the detector indicates a fault or an alarm sounds, follow these general guidelines:

- **Yellow Indicator Light (Fault):** If the yellow light is active, it indicates a device malfunction. This requires inspection. Try unplugging and re-plugging the device. If the fault persists, contact customer support.
- **Red Indicator Light (Danger Alert) & Audible Alarm:**
  - **For CO Alarm:** Immediately move to fresh air outdoors or open all doors and windows to ventilate the area. Do not re-enter the premises until the alarm has stopped and the CO level has returned to 0 PPM. Seek medical attention if anyone is experiencing symptoms of CO poisoning (headache, nausea, dizziness).
  - **For Gas Alarm:** Immediately turn off all gas appliances and open windows and doors for ventilation. Do not operate electrical switches or phones. Evacuate the premises and contact your gas provider or emergency services.
  - **For Smoke Alarm:** Follow your home's fire escape plan. Evacuate immediately and call emergency services from a safe location.
- **No Display/No Power:** Ensure the device is securely plugged into a working outlet. Check the power source. If using

battery backup, ensure it is charged.

- **False Alarms:** Ensure the device is not exposed to strong fumes from cleaning products, aerosols, or excessive steam, which can trigger false alarms. Refer to environmental factors in the Maintenance section.

If you encounter any issues not covered here or if problems persist, please contact our support team for assistance.

Specifications

Feature	Detail
Brand	CSCL
Model Number	HD 15
Power Source	AC & Battery Backup (100V–240V AC, 1000mAh rechargeable battery)
Color	White & Blue
Product Dimensions	2.05"D x 0.98"W x 3.39"H
Item Weight	5.9 ounces
Alarm Type	Audible (>85dB) & Visual (Flash) Dual Alarm
CO Detection Range	0-999 ppm (±5%)
Combustible Gas Detection Range	0-10000 ppm (±5%)
Temperature Display Range	14°F to 122°F (-10°C to 50°C) (±3%)
Humidity Display Range	5% to 95% RH (±5%)
Special Features	2 Power Supply Modes, Audible and Visual Dual Alarm, High Sensitivity, Low Power Consumption, Ultra-Large LED Display, Magnetic Back Cover
Included Components	5-in-1 Detector, Magnet Cap, Owner's Manual, Power Plug

Customer Support

For any questions, technical assistance, or warranty inquiries regarding your CSCL HD 15 detector, please contact our customer support team. Refer to the contact information provided in the packaging or on the official CSCL website.
We are committed to ensuring your safety and satisfaction with our products.

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