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HEIMAN C1-W

HEIMAN Smart Mini Carbon Monoxide Detector C1-W User Manual

Model: C1-W

1. Introduction

Thank you for choosing the HEIMAN Smart Mini Carbon Monoxide Detector C1-W. This device is designed to provide precise detection of carbon monoxide (CO) concentrations, ensuring the safety of your home or travel environment. It features advanced electrochemical sensors, instant alarm notifications, and mobile app integration for remote monitoring. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to help you get the most out of your device.

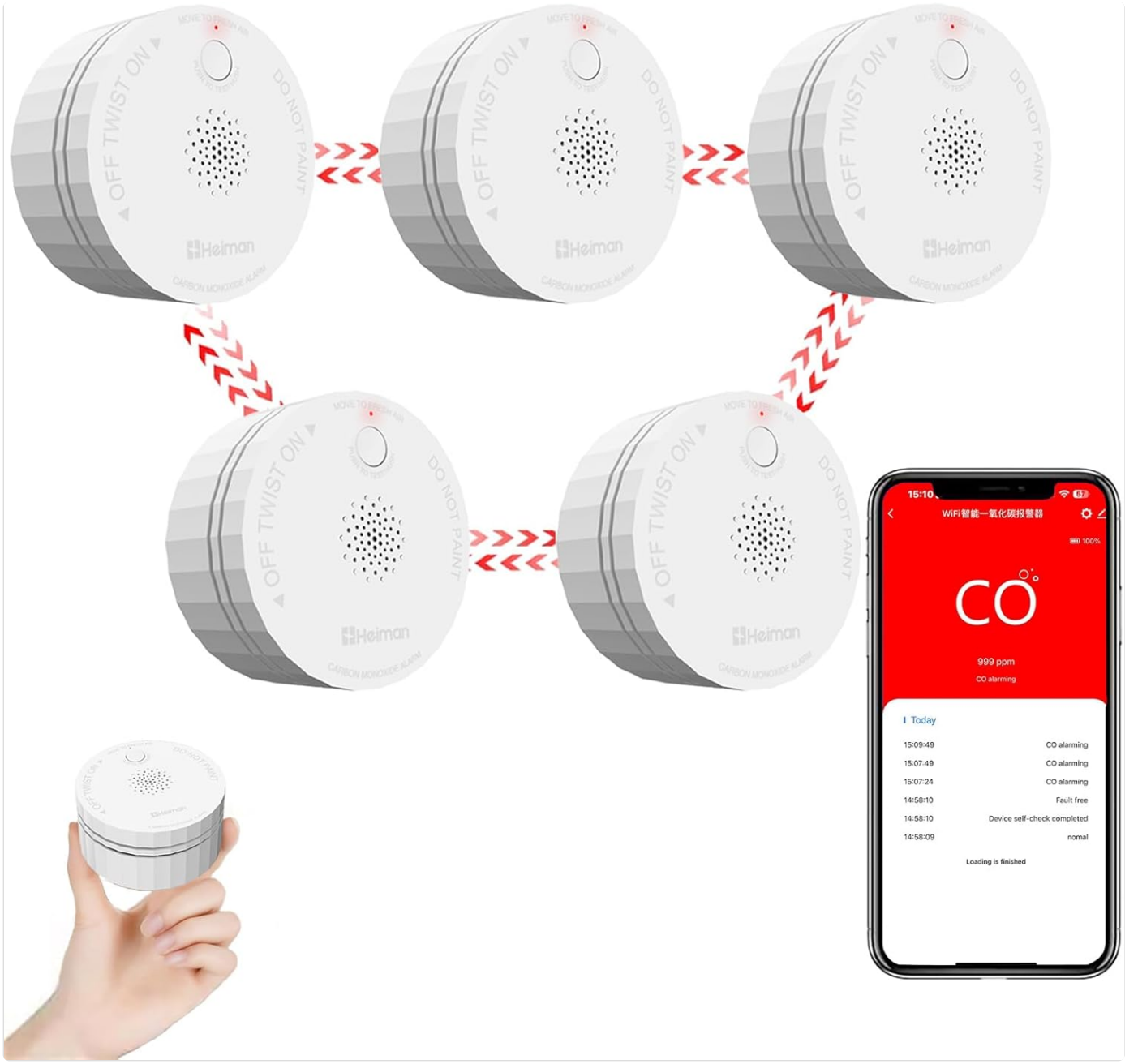

Image: Overview of the HEIMAN C1-W Carbon Monoxide Detectors and their mobile app connectivity.

2. Important Safety Information

Please read all instructions carefully before installation and operation. Failure to follow these instructions may result in improper operation of the detector and could lead to property damage, injury, or death.

- This device is designed to detect carbon monoxide gas. It is not designed to detect smoke, fire, or other gases.
- Do not paint the detector. Paint can clog the openings and prevent the sensor from detecting CO.
- Do not block the alarm's sound openings.
- Test the alarm regularly as instructed in this manual.
- The sensor has a lifespan of up to 10 years. Replace the unit after 10 years from the manufacturing date.
- This product is certified with ETL, UL2034, and FCC standards.

3. Package Contents

Verify that all components are present in your package:

- HEIMAN Smart Mini Carbon Monoxide Detector (C1-W) units (5 Pack)
- CR123A Batteries (included, pre-installed or separate)
- Mounting Screws
- Wall Plugs
- User Manual

Image: Included components of the HEIMAN C1-W Carbon Monoxide Detector.

4. Product Specifications

Feature	Specification
Model	C1-W
Sensor Type	Electrochemical
Power Source	Battery Powered (1 x CR123A, included)
Battery Life	Up to 3 years
Sensor Lifespan	Up to 10 years
Alarm Volume	85 dB
Connectivity	2.4 GHz Wi-Fi (Tuya/Smart Life APP compatible)
Product Dimensions	2.7"D x 2.7"W x 1.4"H
Operating Humidity	5%-95% relative humidity
Upper Temperature Rating	100 Degrees Celsius
Certifications	ETL, UL2034, FCC

Image: Dimensions of the HEIMAN C1-W Carbon Monoxide Detector.

5. Setup and Installation

5.1 Choosing a Location

Carbon monoxide is slightly lighter than air and mixes readily with air. For optimal detection, place the detector:

- In or near sleeping areas and living areas.
- On a wall, at least 5 feet (1.5 meters) from the floor, or on the ceiling.
- At least 15 feet (4.5 meters) away from fuel-burning appliances to avoid false alarms from normal combustion byproducts.
- Avoid placing in direct sunlight, near vents, fans, or in extremely dusty, dirty, or greasy areas.
- Suitable for use in residential environments such as bedrooms, kitchens, garages, and attics. Ideal for enclosed spaces like hotels, RVs, and tents when traveling.

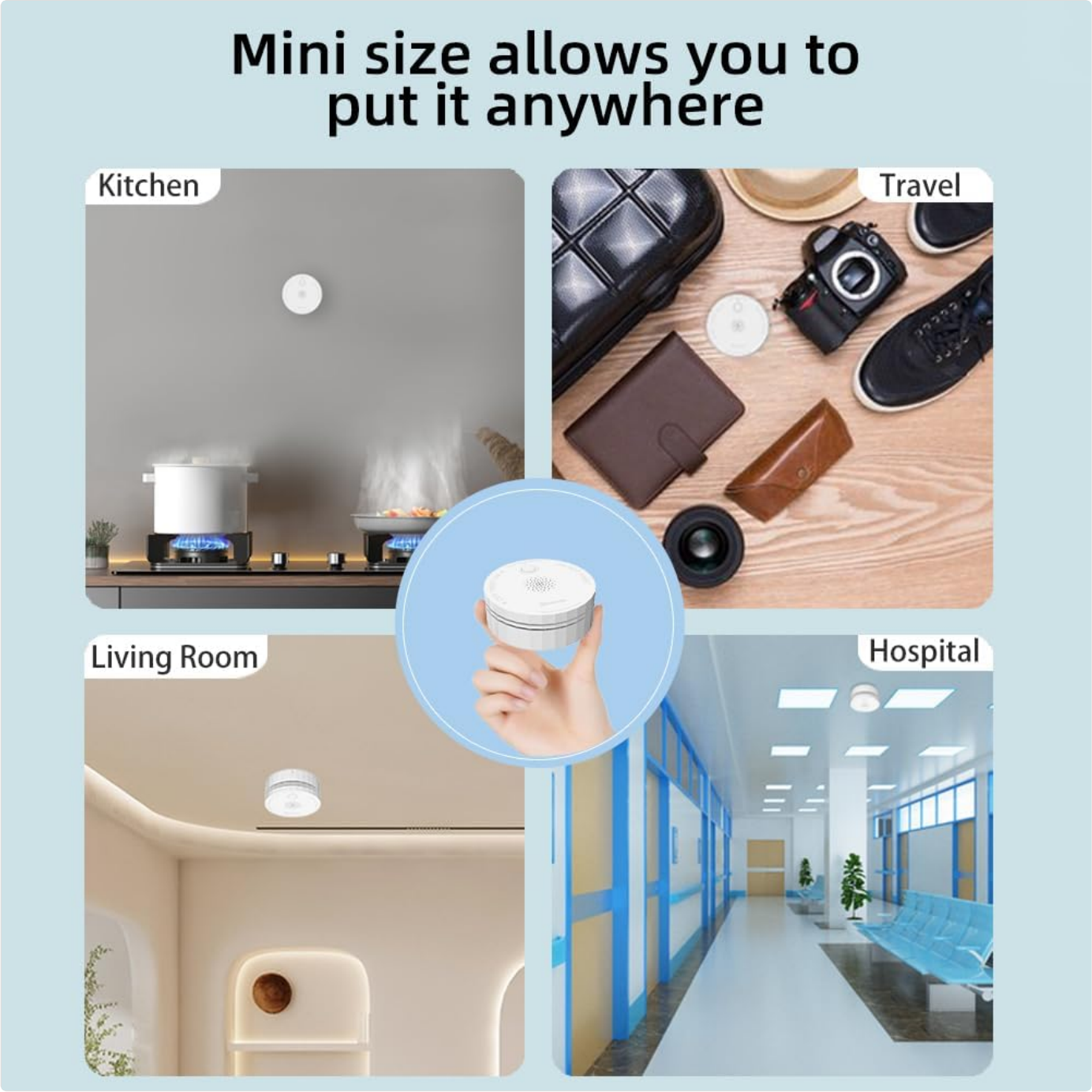

Image: Versatile placement options for the HEIMAN C1-W detector.

5.2 Mounting the Detector

1. **Remove the Mounting Bracket:** Press and insert a disassembly pin into the disassembly hole on the back of the alarm. Twist the alarm in the direction indicated on the cover to separate it from the mounting bracket.
2. **Mark Drill Holes:** Hold the mounting bracket against the desired wall or ceiling location and mark the screw holes.
3. **Drill Holes:** Drill holes at the marked positions using a 3/16" (5 mm) drill bit.
4. **Insert Wall Plugs:** Insert the provided wall plugs into the drilled holes.
5. **Secure Bracket:** Screw the mounting bracket to the wall or ceiling using the provided screws.
6. **Attach Detector:** Align the detector with the mounting bracket and turn clockwise to lock it securely in place.

Image: Step-by-step installation guide for the HEIMAN C1-W detector.

5.3 Battery Installation

The detector uses one CR123A battery, which is included. Ensure the battery is correctly inserted according to the polarity markings inside the battery compartment. The device will activate once the battery is installed.

Image: Battery compartment and 10-year sensor lifespan indication.

5.4 App Pairing (Tuya/Smart Life APP)

To enable mobile app alerts and remote monitoring, you need to pair the detector with the Tuya or Smart Life app.

1. **Download App:** Download and install the "Tuya Smart" or "Smart Life" app from your smartphone's app store (Google Play Store for Android, Apple App Store for iOS).
2. **Register/Login:** Open the app and register a new account or log in to an existing one.
3. **Add Device:** Ensure your phone's Bluetooth is enabled. In the app, tap the "+" icon to add a new device.
4. **Enter Pairing Mode:** On the CO detector, locate the RESET hole (usually on the underside). Use a small pin or paperclip to press and hold the RESET button until the LED light on the detector starts flashing rapidly. This indicates pairing mode.
5. **Connect to Wi-Fi:** The app should automatically detect the device. Follow the on-screen prompts to connect the detector to your 2.4 GHz Wi-Fi network. *Note: The detector only supports 2.4 GHz Wi-Fi.*
6. **Customize Name/Location:** Once paired, you can customize the device name (e.g., "Living Room CO Detector") and assign it to a specific room within the app for easier identification of alerts.

Image: The HEIMAN C1-W detector connects via 2.4 GHz Wi-Fi for smart monitoring.

Image: Real-time push notifications from the HEIMAN C1-W detector via the mobile app.

6. Operating the Detector

6.1 Normal Operation

Once installed and powered on, the detector continuously monitors carbon monoxide levels in the air. The LED indicator will typically be off or flash periodically (e.g., every 30 seconds) to indicate normal operation, depending on the specific model's design. Refer to the small instruction leaflet included with the product for exact LED behavior.

6.2 Testing the Alarm

It is recommended to test the alarm weekly to ensure proper functionality.

1. **Press Test/Hush Button:** Locate the "PUSH TO TEST/HUSH" button on the cover of the unit.
2. **Activate Alarm:** Press and hold the button until the alarm sounds. The unit may continue to alarm for a few seconds after you release the button.

3. **Verify App Notification:** If paired with the app, you should receive a notification on your smartphone indicating a test alarm.
4. **Troubleshoot if No Alarm:** If the alarm does not sound, ensure the unit is receiving power (battery is installed correctly) and test it again. If it still fails, refer to the Troubleshooting section.

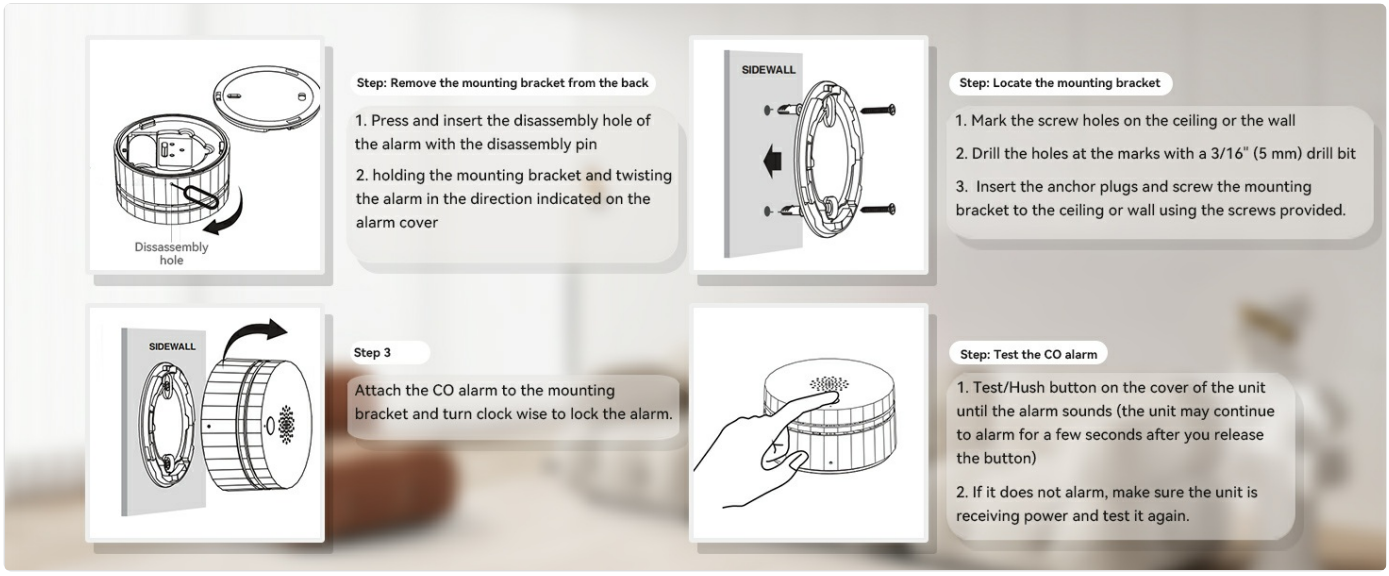

Image: How to test the CO alarm.

6.3 Alarm Conditions and Actions

In the event of a carbon monoxide detection:

- The alarm will sound an 85-decibel alarm.
- The LED light on the detector will flash.
- If paired, the mobile app will promptly notify you of the alarm, even if you are not at home.

If the alarm sounds:

1. Immediately move to fresh air outdoors or open all doors and windows to ventilate the area.
2. Do not re-enter the premises until the alarm has stopped and the area has been thoroughly ventilated.
3. Call your emergency services (e.g., 911 or local gas company) if you suspect a CO leak.
4. Identify and correct the source of carbon monoxide.

Image: Carbon Monoxide alarm precaution and mobile app notification.

Your browser does not support the video tag.

Video: Demonstration of the HEIMAN C1-W Carbon Monoxide Detector's alarm functionality and app integration. This video shows the alarm sounding and the corresponding notification on a smartphone.

7. Maintenance

7.1 Cleaning the Detector

Clean the detector regularly to prevent dust and debris from interfering with its operation.

- Use a soft, damp cloth to wipe the exterior of the detector.
- Do not use cleaning solvents or chemicals.
- Do not paint the detector.
- Do not spray air fresheners, hair spray, or other aerosols near the detector.

7.2 Battery Replacement

The detector features a low-battery warning function. When the battery is low, the device will emit a chirp or flash a specific LED pattern (refer to the small instruction leaflet for exact indication) and send a notification to your mobile app. Replace the battery promptly when this occurs.

1. Twist the detector counter-clockwise to remove it from the mounting bracket.
2. Open the battery compartment.
3. Remove the old CR123A battery.
4. Insert a new CR123A battery, observing correct polarity.
5. Close the battery compartment and reattach the detector to the mounting bracket.
6. Test the alarm after battery replacement.

The battery is designed to last for approximately 3 years. The sensor itself has a lifespan of up to 10 years, after which the entire unit should be replaced.

8. Troubleshooting

Problem	Possible Cause	Solution
Alarm does not sound during test.	No battery, low battery, or faulty unit.	Ensure battery is installed correctly. Replace battery if low. If problem persists, replace the unit.
Alarm chirps periodically.	Low battery warning.	Replace the CR123A battery immediately.
False alarms.	Detector placed too close to combustion sources (e.g., stove, furnace), or excessive humidity/dust.	Relocate the detector further away from combustion sources (at least 15 feet). Clean the detector. Ensure proper ventilation.
Cannot pair with app.	Incorrect Wi-Fi band (not 2.4 GHz), incorrect pairing mode, or network issues.	Ensure your Wi-Fi is 2.4 GHz. Re-enter pairing mode (rapid flashing LED). Check Wi-Fi signal strength. Restart router/phone.
No app notifications.	App permissions, network connectivity, or app settings.	Check app notification permissions on your phone. Ensure detector is connected to Wi-Fi. Verify app settings for alerts.
End-of-life signal (if applicable).	Sensor has reached its 10-year lifespan.	Replace the entire detector unit.

9. Warranty and Support

HEIMAN provides a limited warranty for this product. For specific warranty terms and conditions, please refer to the warranty card included in your package or visit the official HEIMAN website.
For any product-related inquiries, technical support, or warranty claims, please feel free to contact us:

- **Manufacturer:** HEIMAN
- **Seller:** HEIMAN-US (on Amazon)

- **Contact Information:** Refer to the contact details provided in your product packaging or on the official HEIMAN website.
- **Online Store:** Visit the HEIMAN Store on Amazon

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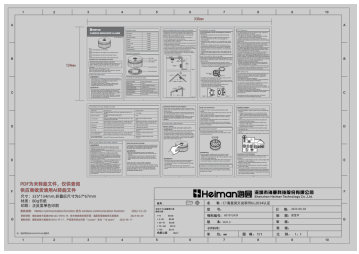
This manual is for informational purposes only. Specifications are subject to change without notice.

Related Documents

	Heiman Photoelectric Smoke Alarm Device HM-633PHW, HM-635PHW User Manual User manual for the Heiman Photoelectric Smoke Alarm Device, models HM-633PHW and HM-635PHW. This document provides instructions on installation, operation, maintenance, and troubleshooting for the smart photoelectric smoke alarm with RF transceiver capabilities.
	Heiman WS2WL-TY Smart Water Leakage Alarm User Manual Comprehensive user manual for the Heiman WS2WL-TY Smart Water Leakage Alarm, covering product introduction, technical specifications, setup, operation, troubleshooting, and FCC compliance information.
	Heiman S1 Photoelectric Smoke Alarm User Manual Comprehensive user manual for the Heiman S1 Photoelectric Smoke Alarm, covering safety information, installation, testing, maintenance, technical specifications, and FCC compliance. Includes detailed instructions and recommendations for optimal performance and safety.
	Smart Motion Sensor HS1MS-Z User Manual User manual for the Smart Motion Sensor HS1MS-Z, detailing its features, specifications, installation, and networking instructions.

Documents - HEIMAN – C1-W



[pdf] User Manual

04 601012439 C1 user manual english rd17 Users Manual Shenzhen Heiman Technology Co Ltd W Carbon Monoxide alarm 2AK7XC1 2AK7XC1W c1 w

134mm 335mm M417-32EVer1.3 C1-S Carbon Monoxide alarm, no RF function C1-M Carbon Monoxide alarm with wireless communication function **C1-W** Carbon Monoxide alarm with WiFi communication function C1-R Carbon Monoxide alarm with wireless interconnection function CONFORMS TO UL STD 2034 AND CSA 6.19-1...

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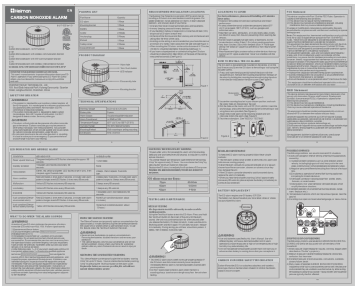

[pdf] User Manual Guide

601012596 C1 UL2034 rd17 User Guide HEIMAN Carbon Monoxide Detector CO Sensor Alarm Monitor Compatiable with UL2034 Standard Battery Powered and 85dB Audible Mini Size Portable Detectors for Travel Home Indoor B1GVynXZIqL m media amazon images I |||

EN M417-32EVer1.3 C1-S Carbon Monoxide alarm, no RF function C1-M Carbon Monoxide alarm with wireless communication function **C1-W** Carbon Monoxide alarm with WiFi communication function C1-R Carbon Monoxide alarm with wireless interconnection function Conforms to UL STD 2034 and Certified to CSA STD ...

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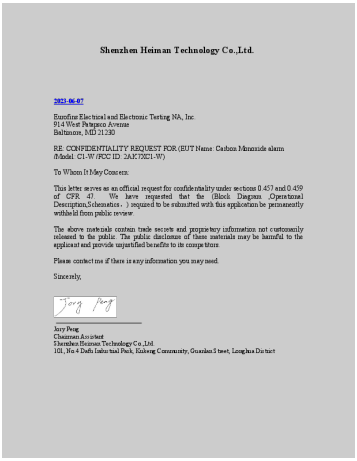

Shenzhen Heiman Technology Co.,Ltd.

2023-06-07

Eurofins Electrical and Electronic Testing NA, Inc.
914 West Patapsco Avenue
Baltimore, MD 21230

RE: CONFIDENTIALITY REQUEST FOR (EUT Name: Carbon Monoxide alarm /Model: C1-W /FCC ID: 2AK7XC1-W)

To Whom It May Concern:

This letter serves as an official request for confidentiality under sections 0.457 and 0.459 of CFR 47. We have requested that the (Block Diagram ,Operational Description,Schematics ,) required to be submitted with this application be permanently withheld from public review.

The above materials contain trade secrets and proprietary information not customarily released to the public. The public disclosure of these materials may be harmful to the applicant and provide unjustified benefits to its competitors.

Please contact me if there is any information you may need.

Sincerely,

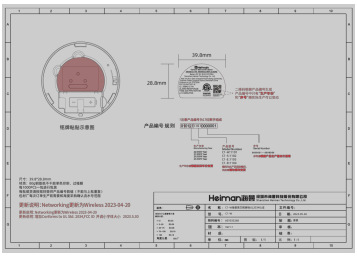
Jory Peng
Chairman Assistant
Shenzhen Heiman Technology Co.,Ltd.
101, No.4 Dafu Industrial Park, Kukeng Community, Guanlan Street, Longhua District

[pdf] Confidentiality Request Letter

Please produce a letter on your company letterhead with the following information Administrator Long term Confidentiality Letter Shenzhen Heiman Technology Co Ltd C1 W Carbon Monoxide alarm 2AK7XC1 2AK7XC1W c1 w

Shenzhen Heiman Technology Co.,Ltd. 2023-06-07 Eurofins Electrical and Electronic Testing NA, Inc. 914 West Patapsco Avenue Baltimore, MD 21230 RE: CONFIDENTIALITY REQUEST FOR EUT Name: Carbon Monoxide alarm /Model: **C1-W** /FCC ID: 2AK7X**C1-W** To Whom It May Concern: This letter serves as an official ...

lang:en score:21 filesize: 105.92 K page_count: 1 document date: 2023-06-09



[pdf] Label

0 601033268 C1 W label 2023 5 24 HP ID Label Location Info Shenzhen Heiman Technology Co Ltd Carbon Monoxide alarm 2AK7XC1 2AK7XC1W c1 w

28.8mm 39.8mm Carbon Monoxide Alarm Model:**C1-W** Wireless:WiFi 2.4GHz Battery:DC 3V EVE CR123A Shenzhen Heiman Technology Co., Ltd. Add101,No.4 Dafu Industrial Park,Kukeng Community, Guanlan Street,Longhua District,Shenzhen,China Conforms to UL STD 2034 FCC ID:2AK7X**C1-W** IC: 30642-C1W ALARM ...

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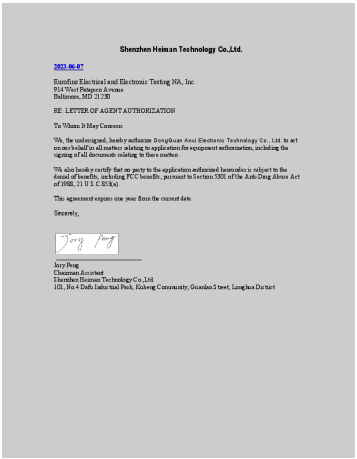
Shenzhen Heiman Technology Co.,Ltd.

2023-06-07

Eurofins Electrical and Electronic Testing NA, Inc.
914 West Patapsco Avenue
Baltimore, MD 21230

RE: LETTER OF AGENT AUTHORIZATION

To Whom It May Concern:

We, the undersigned, hereby authorize DongGuan Anci Electronic Technology Co., Ltd. to act on our behalf in all matters relating to application for equipment authorization, including the signing of all documents relating to these matters.

We also hereby certify that no party to the application authorized hereunder is subject to the denial of benefits, including FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 853(a).

This agreement expires one year from the current date.

Sincerely,

Jory Peng
Chairman Assistant
Shenzhen Heiman Technology Co.,Ltd.
101, No.4 Dafu Industrial Park, Kukeng Community, Guanlan Street, Longhua District

[pdf] Agent Authorization

Date Administrator Agent Authorization Shenzhen Heiman Technology Co Ltd C1 W Carbon Monoxide alarm 2AK7XC1 2AK7XC1W c1 w

Shenzhen Heiman Technology Co.,Ltd. 2023-06-07 Eurofins Electrical and Electronic Testing NA, Inc. 914 West Patapsco Avenue Baltimore, MD 21230 RE: LETTER OF AGENT AUTHORIZATION To Whom It May Concern: We, the undersigned, hereby authorize DongGuan Anci Electronic Technology Co., Ltd. to act on our ...

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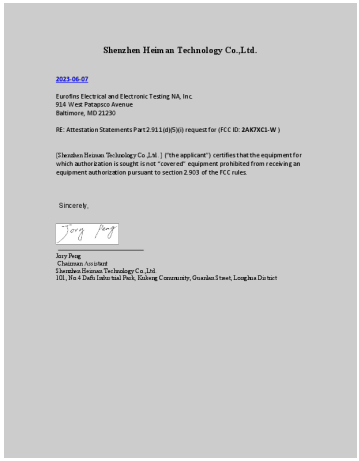

Shenzhen Heiman Technology Co.,Ltd.

2023-06-07

Eurofins Electrical and Electronic Testing NA, Inc.
914 West Patapsco Avenue
Baltimore, MD 21230

RE: Attestation Statements Part 2.911(d)(5)(i) request for (FCC ID: 2AK7XC1-W)

[Shenzhen Heiman Technology Co.,Ltd.] ("the applicant") certifies that the equipment for which authorization is sought is not "covered" equipment prohibited from receiving an equipment authorization pursuant to section 2.903 of the FCC rules.

Sincerely,

Jory Peng
Chairman Assistant
Shenzhen Heiman Technology Co.,Ltd.
101, No 4 Dadi Industrial Park, Kuiseng Community, Guanlan Street, Longhua District

[pdf]

Please produce a letter on your company letterhead with the following information Administrator Attestation Statements Shenzhen Heiman Technology Co Ltd C1 W Carbon Monoxide alarm 2AK7XC1 2AK7XC1W c1 w

Shenzhen Heiman Technology Co.,Ltd. 2023-06-07 Eurofins Electrical and Electronic Testing NA, Inc. 914 West Patapsco Avenue Baltimore, MD 21230 RE: Attestation Statements Part 2.911 d 5 i request for FCC ID: 2AK7X**C1-W** Shenzhen Heiman Technology Co.,Ltd. the applicant certifies that the ...

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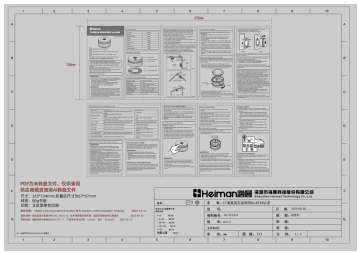

[pdf] User Manual

0 601012293 HS8SA EFA 2 rd17 Users Manual Shenzhen Heiman Technology Co Ltd C1 R Carbon Monoxide alarm 2AK7XC1 2AK7XC1R c1 r

134mm 335mm M417-32EVer1.3 C1-S Carbon Monoxide alarm, no RF function C1-M Carbon Monoxide alarm with wireless communication function **C1-W** Carbon Monoxide alarm with WiFi communication function C1-R Carbon Monoxide alarm with wireless interconnection function CONFORMS TO UL STD 2034 AND CSA 6.19-1...

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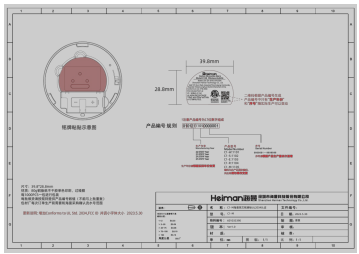

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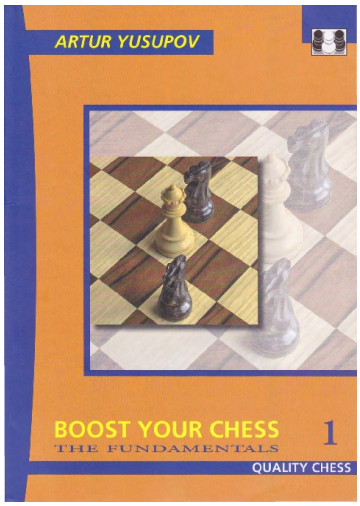

[pdf] User Manual

Learning Chess Manual For Trainers Pdf Teaching Boost your 1 The Fundamentals archive org boostyourchess1 thefundamentals |||

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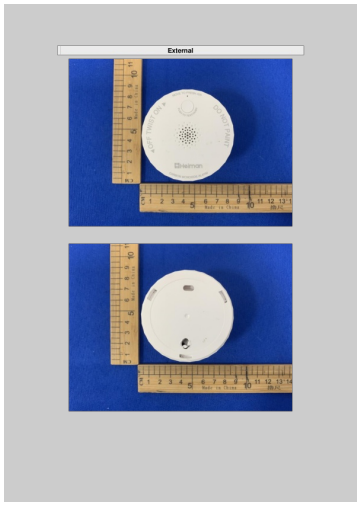

[pdf] Product Photos

China External Photos Shenzhen Heiman Technology Co Ltd C1 W Carbon Monoxide alarm 2AK7XC1 2AK7XC1W c1 w

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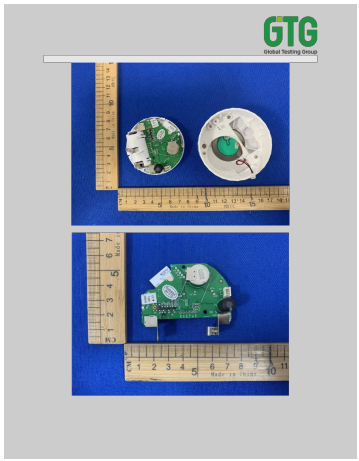

[pdf] Product Photos Teardown

China Internal Photos Shenzhen Heiman Technology Co Ltd C1 W Carbon Monoxide alarm 2AK7XC1 2AK7XC1W c1 w

Internal TRF No.: 01-R005-3A Web: www.gtggroup.com TRF Originator: GTG E-mail: info gtggroup.com TRF Date: 2022-06-29 Tel.: 86-400 755 8988 REPORT NO.: E01A23040510F00401 Page 2 of 3 TRF No.: 01-R005-3A Global Testing , Great Quality. REPORT NO.: E01A23040510F00401 Page 3 of 3 END OF REPORT...

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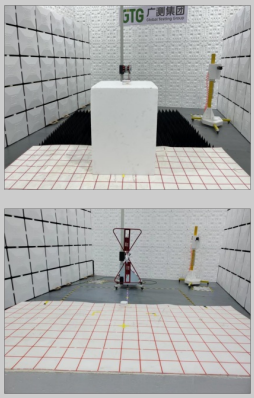

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China Test Setup Photos Shenzhen Heiman Technology Co Ltd C1 W Carbon Monoxide alarm 2AK7XC1 2AK7XC1W c1 w

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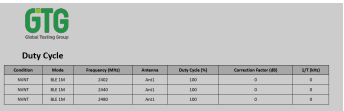

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	100	0	0
NVNT	BLE 1M	2440	Ant1	100	0	0
NVNT	BLE 1M	2480	Ant1	100	0	0

[pdf] Test Report

Yeh Test Report 2 Shenzhen Heiman Technology Co Ltd C1 W Carbon Monoxide alarm 2AK7XC1 2AK7XC1W c1 w

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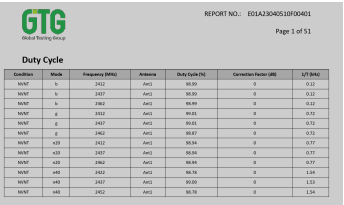

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Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	98.99	0	0.12
NVNT	b	2437	Ant1	98.99	0	0.12
NVNT	b	2462	Ant1	98.99	0	0.12
NVNT	g	2412	Ant1	99.01	0	0.72
NVNT	g	2437	Ant1	99.01	0	0.72
NVNT	g	2462	Ant1	98.87	0	0.72
NVNT	n20	2412	Ant1	98.94	0	0.77
NVNT	n20	2437	Ant1	98.94	0	0.77
NVNT	n20	2462	Ant1	98.84	0	0.77
NVNT	n40	2422	Ant1	98.74	0	1.54
NVNT	n40	2437	Ant1	99.09	0	1.53
NVNT	n40	2452	Ant1	98.70	0	1.54

[pdf] Test Report

Yeh Test Report 1 Shenzhen Heiman Technology Co Ltd C1 W Carbon Monoxide alarm 2AK7XC1 2AK7XC1W c1 w

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[pdf] Test Report

Mike Heckrotte Test Report 3 Shenzhen Heiman Technology Co Ltd C1 W Carbon Monoxide alarm 2AK7XC1 2AK7XC1W c1 w

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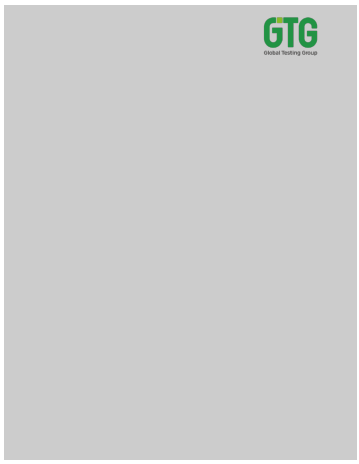

[pdf] Test Report

Mike Heckrotte Test Report 4 Shenzhen Heiman Technology Co Ltd C1 W Carbon Monoxide alarm 2AK7XC1 2AK7XC1W c1 w

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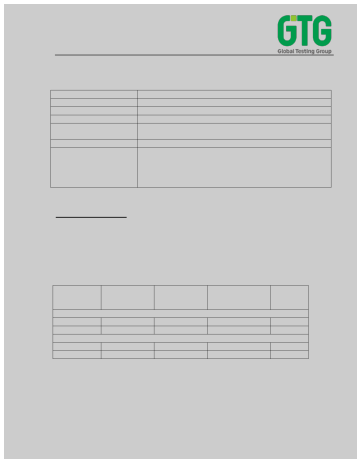

[pdf] SAR Rating

According to §15 Benjamin RF Exposure Info Shenzhen Heiman Technology Co Ltd C1 W Carbon Monoxide alarm 2AK7XC1 2AK7XC1W c1 w

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lang:en score:10 filesize: 169.78 K page_count: 2 document date: 2023-06-09