

HEIMAN HS1SA Series

HEIMAN Wireless Photoelectric Smoke Detector User Manual

Model: HS1SA Series

Brand: HEIMAN

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your HEIMAN Wireless Photoelectric Smoke Detector. This device is designed to detect smoke and provide an early warning of fire, helping to protect your home and family. It features a 10-year lithium battery for long-lasting, reliable protection and utilizes advanced photoelectric sensing technology to minimize false alarms.



Figure 1: HEIMAN Wireless Photoelectric Smoke Detector (Pack of 5 shown)

This image displays a pack of five HEIMAN wireless photoelectric smoke detectors, along with a close-up of a single unit. The detectors are white, circular, and feature a test/silence button and a small LED indicator.

2. SAFETY INFORMATION

Please read and understand all instructions before installing and operating the smoke detector. Failure to follow these instructions may result in improper operation of the device and could lead to property damage, injury, or death.

- This smoke detector is designed for residential use.
- Do not paint the smoke detector. Paint can clog the sensing chamber and prevent the unit from operating properly.
- Do not install in areas with high humidity, extreme temperatures, or excessive dust.

- Regularly test the smoke detector as instructed in this manual.
- In case of an alarm, evacuate the premises immediately and call emergency services.
- The device is certified by TUV, VdS (DE), BOSEC (BE), LPCB (UK), RoHS (EU), Reach (EU), and CCCF (CN), CE certified and complies with EN14604 standard.

3. PACKAGE CONTENTS

Verify that all items are present and in good condition upon opening the package.

- HEIMAN Photoelectric Smoke Detector Unit(s)
- CR123A Lithium Battery (pre-installed or included)
- Mounting Screws (2 per unit)
- Wall Anchors (2 per unit)
- User Manual

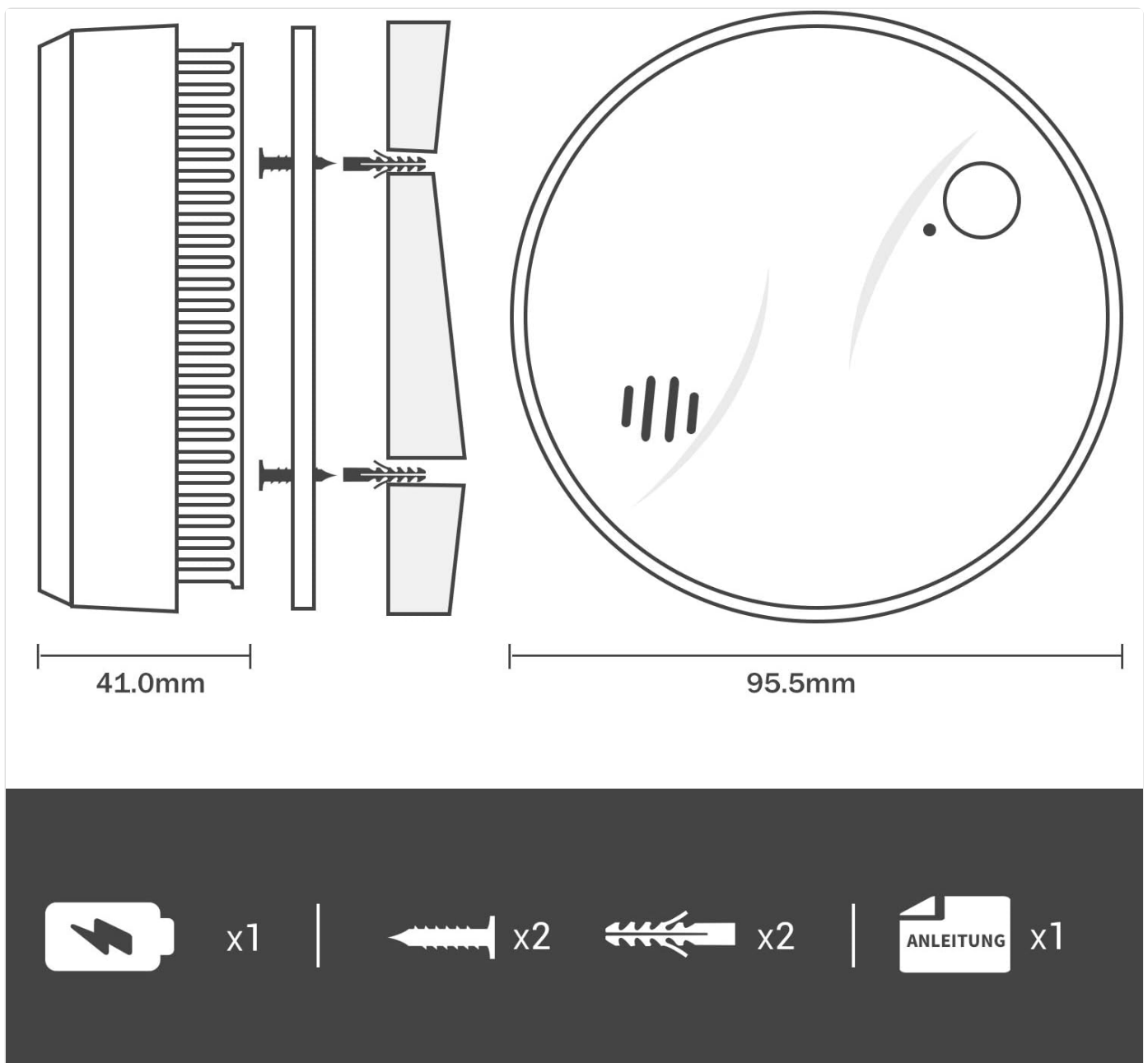


Figure 2: Package Contents and Dimensions

This image illustrates the components included in the package: one battery, two screws, two wall anchors, and one instruction manual. It also provides a diagram showing the dimensions of the smoke detector (95.5mm diameter, 41.0mm depth) and the mounting bracket.

4. PRODUCT FEATURES

- **High Quality and Safety:** Constructed from environmentally friendly, fire-retardant ABS + PC plastic. Features anti-corrosion, anti-worm invasion, anti-glare, and anti-electromagnetic interference properties. Utilizes imported US microchips, photo-emissive, and receiving tubes for precise smoke detection.
- **10-Year Battery Life:** Powered by a DC3V CR123A lithium battery, offering an incredible lifespan of up to 10 years without replacement, providing continuous 24/7 protection.
- **Certified Quality:** Certified by TUV, VdS (DE), BOSEC (BE), LPCB (UK), RoHS (EU), Reach (EU), and CCCF (CN). CE certified and compliant with EN14604 standard, ensuring high safety and quality standards.
- **False Alarm Prevention & Self-Check:** Hidden labyrinth design ensures good stability and strong anti-interference capability, effectively preventing false alarms caused by dust accumulation. Features automatic self-check and low battery warning functions.
- **Convenient Test/Silence Button:** Equipped with a practical Test/Silence button, a flashing power indicator, and an 85-decibel alarm to alert you in case of smoke detection.

ADVANTAGE

Stable & Efficient

95.5mm



-  US Microchip sensor
-  10-Year Battery Life
-  Certification: VdS, EN14604, RoHS, etc.
-  Low voltage & fault prompt function

VdS

EN14604

**ROHS**

Figure 3: Key Advantages

This image highlights the key advantages of the smoke detector, including its stable and efficient performance, use of a US Microchip

sensor, 10-year battery life, various certifications (VdS, EN14604, RoHS), and low voltage & fault prompt function.

PERFECT STRUCTURE

Patented design with high precision photoelectric sensor

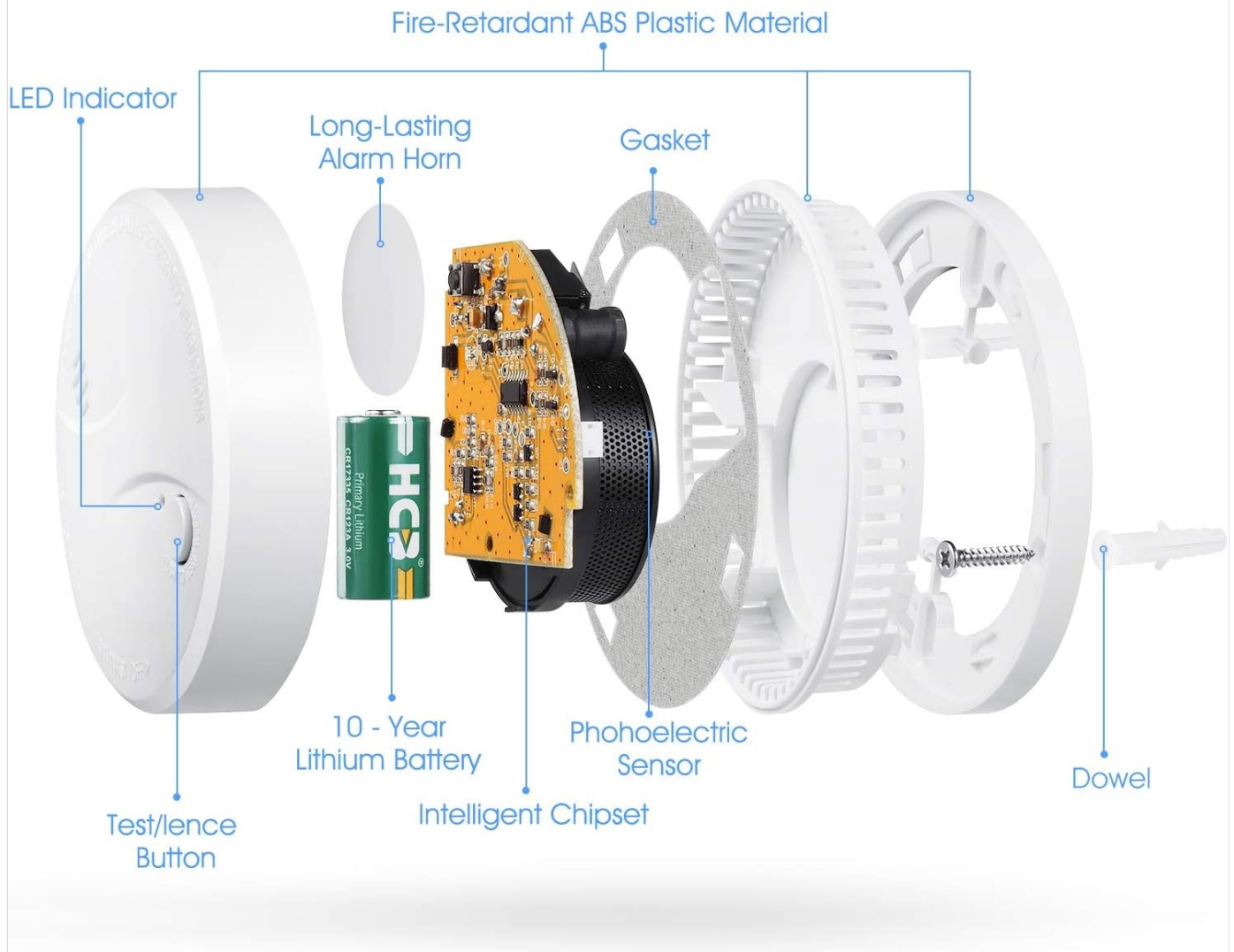


Figure 4: Perfect Structure - Exploded View

This diagram provides an exploded view of the smoke detector, detailing its internal components such as the LED indicator, long-lasting alarm horn, gasket, 10-year lithium battery, photoelectric sensor, intelligent chipset, test/silence button, and dowel for mounting. It emphasizes the patented design with a high-precision photoelectric sensor and fire-retardant ABS plastic material.

SENSITIVE & INTELLIGENT

360° perception of smoke with fewer false alarms



10-YEAR



10-Year



Small



Efficient

Figure 5: Sensitive & Intelligent Design

This image shows the internal circuitry of the smoke detector, emphasizing its 360-degree perception of smoke and ability to reduce false alarms. It also reiterates the 10-year battery life, small size, and efficient operation.

5. SETUP AND INSTALLATION

5.1 Recommended Placement

For optimal protection, install smoke detectors in every sleeping area and on every level of your home, including the basement. For best results, place detectors in the center of the ceiling. Avoid placing detectors near windows, doors, or air

vents where drafts might interfere with smoke detection.

- Install at least one smoke detector on each floor, including the basement.
- Install a smoke detector in each bedroom.
- Install a smoke detector in the hallway outside of each sleeping area.
- For sloped ceilings, install the detector within 3 feet (0.9 meters) of the peak but not within the apex of the ceiling.

PREMIUM QUALITY

Uninterrupted 24/7 protection



Figure 6: Recommended Room Placement

This image shows examples of optimal smoke detector placement in various rooms, including a living room, kitchen, bedroom, and cloakroom, emphasizing 24/7 uninterrupted protection.

ULTRA-LARGE COVERAGE

Detection range of 20-40 m²



Figure 7: Ultra-Large Coverage Area

This floor plan diagram illustrates the ultra-large coverage of the smoke detector, indicating a detection range of 20-40 square meters. It shows a single detector effectively covering a living room, kitchen, corridor, bedroom, toilet, and cloakroom, with an 85dB alarm.

5.2 Mounting Instructions

1. **Choose Location:** Select a suitable location on the ceiling or wall, away from corners and obstructions.
2. **Mark Holes:** Use the mounting bracket as a template to mark the positions for drilling holes.
3. **Drill Holes:** Drill two holes at the marked positions. Insert the wall anchors if mounting into drywall or plaster.
4. **Attach Bracket:** Secure the mounting bracket to the ceiling/wall using the provided screws.
5. **Activate Battery:** Ensure the 10-year lithium battery is properly activated. For some models, this involves twisting the detector onto the mounting bracket, which activates the battery.
6. **Mount Detector:** Align the smoke detector with the mounting bracket and twist clockwise until it clicks securely into place.
7. **Test Unit:** Press the Test/Silence button to ensure the unit is functioning correctly. You should hear a loud alarm

sound.

6. OPERATING INSTRUCTIONS

6.1 Normal Operation

During normal operation, the LED indicator will flash periodically (e.g., once every 40-60 seconds) to indicate that the unit is powered and functioning correctly.

6.2 Test Function

To test the smoke detector, press and hold the Test/Silence button located on the front of the unit. The alarm will sound loudly (approximately 85 dB) and the LED indicator will flash rapidly. Release the button to stop the alarm. Test the detector weekly to ensure proper operation.

6.3 Silence Function (Hush Mode)

If a non-emergency alarm occurs (e.g., from cooking fumes), you can temporarily silence the alarm by pressing the Test/Silence button. The alarm will silence for approximately 8-10 minutes, after which it will automatically reset. If smoke is still present, the alarm will sound again.

6.4 Low Battery Warning

When the battery is nearing the end of its life (after approximately 10 years), the smoke detector will chirp periodically (e.g., once every 30-40 seconds) and the LED indicator will flash. This indicates that the unit needs to be replaced.

7. MAINTENANCE

- **Weekly Testing:** Test your smoke detector weekly by pressing the Test/Silence button.
- **Monthly Cleaning:** Gently vacuum the exterior of the smoke detector using a soft brush attachment to remove dust and debris. Do not use cleaning solvents or spray chemicals directly on the unit.
- **Battery Replacement:** The smoke detector is equipped with a sealed 10-year lithium battery that is not user-replaceable. When the low battery warning sounds, the entire unit must be replaced.
- **Unit Replacement:** Replace the smoke detector unit every 10 years from the date of manufacture or when the low battery warning sounds, whichever comes first.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Smoke detector chirps periodically.	Low battery warning.	The 10-year battery is nearing its end of life. Replace the entire smoke detector unit.
Alarm sounds without visible smoke.	False alarm due to cooking fumes, steam, or dust.	Press the Test/Silence button to temporarily silence the alarm. Ventilate the area. Clean the detector if dust is suspected.
Alarm does not sound during test.	Unit not properly activated or faulty.	Ensure the unit is securely twisted onto its mounting bracket. If still no alarm, the unit may be faulty and needs replacement.
LED indicator not flashing.	Unit not powered or faulty.	Ensure the unit is properly mounted and activated. If the issue persists, the unit may be faulty and needs replacement.

9. SPECIFICATIONS

Feature	Detail
Brand	HEIMAN
Model	HS1SA Series (Photoelectric Smoke Detector)
Sensor Type	Photoelectric
Power Source	DC3V (CR123A Lithium Battery, non-replaceable)
Battery Life	Up to 10 years
Alarm Sound Level	≥ 85 dB at 3 meters
Product Dimensions	95.5mm (Diameter) x 41.0mm (Height)
Item Weight	151 Grams
Color	White
Operating Temperature	0°C to 55°C (32°F to 131°F)
Operating Humidity	≤ 85% RH (non-condensing)
Certifications	VdS, TÜV, BOSEC, LPCB, RoHS, Reach, CCCF, CE, EN14604

10. WARRANTY AND SUPPORT

HEIMAN provides a 10-year quality guarantee for this smoke detector, reflecting its commitment to product reliability and customer satisfaction. Additionally, lifetime after-sales service is offered to ensure you receive support for any inquiries or issues that may arise during the product's lifespan.

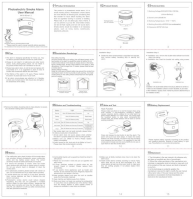
For technical support, warranty claims, or general inquiries, please contact HEIMAN customer service through the retailer's platform or visit the official HEIMAN website for contact details.





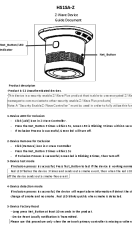
Website: www.heimantech.com (Example, please refer to actual product packaging or official website for correct contact information.)

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This manual is subject to change without notice.

Related Documents - HS1SA Series

	<p>Photoelectric Smoke Alarm User Manual M419-9Ever1.2 - Heiman</p> <p>User manual for the Heiman M419-9Ever1.2 photoelectric smoke alarm. Learn about product features, technical specifications, installation, troubleshooting, and maintenance for optimal fire safety.</p>
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	<p>Heiman Fire Safety Products Catalogue - Smoke Alarms, CO Detectors, and More</p> <p>Explore the comprehensive range of Heiman fire safety products, including smoke alarms, carbon monoxide detectors, heat alarms, smart gateways, remote controllers, and conventional fire alarm systems. Featuring advanced technology, certifications, and quality assurance.</p>
	<p>Heiman Photoelectric Smoke Alarm User Manual: Installation, Operation, and Specifications</p> <p>User manual for Heiman photoelectric smoke alarms, including models WS2SA-1, HS2SA-1, HM2SA-1W, WS2SA-5, HS2SA-5, and HM2SA-5W. This document provides essential information on installation, operation, technical specifications, maintenance, and alarm indications to ensure effective fire safety in homes.</p>
	<p>Heiman Photoelectric Smoke Alarm Device HM-633PHW, HM-635PHW User Manual</p> <p>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.</p>
	<p>HEIMAN HS1SA-Z Smart Smoke Sensor - User Manual & Technical Data</p> <p>Comprehensive guide to the HEIMAN HS1SA-Z Smart Smoke Sensor, covering quick start, installation, Z-Wave integration, technical specifications, and troubleshooting. Learn how to set up and use your smart smoke detector.</p>
	<p>HEIMAN HS1SA-Z Z-Wave Smoke Sensor User Guide</p> <p>User guide for the HEIMAN HS1SA-Z Z-Wave Smoke Sensor, detailing setup, operation, association groups, notification reports, battery information, and technical specifications. Learn how to include, exclude, reset, and maintain the device.</p>