



Conventional Heat Detector

User's Manual



Foreword

General

This manual introduces the functions and operations of the Conventional Heat Detector (hereinafter referred to as "the Device").

Safety Instructions

The following categorized signal words with defined meaning might appear in the manual.

Signal Words	Meaning
 DANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
 WARNING	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
 CAUTION	Indicates a potential risk which, if not avoided, could result in property damage, data loss, lower performance, or unpredictable result.
 TIPS	Provides methods to help you solve a problem or save you time.
 NOTE	Provides additional information as the emphasis and supplement to the text.

Revision History

Version	Revision Content	Release Time
V1.0.3	Modify specification.	July 2025
V1.0.2	Modify specification.	May 2024
V1.0.1	Modify specification.	December 2023
V1.0.0	First release.	October 2023

About the Manual

- The manual is for reference only. If there is inconsistency between the manual and the actual product, the actual product shall prevail.
- We are not liable for any loss caused by the operations that do not comply with the manual.
- The manual would be updated according to the latest laws and regulations of related jurisdictions. For detailed information, refer to the paper manual, CD-ROM, QR code or our official website. If there is inconsistency between paper manual and the electronic version, the electronic version shall prevail.

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- All the designs and software are subject to change without prior written notice. The product updates might cause some differences between the actual product and the manual. Please contact the customer service for the latest program and supplementary documentation.
 - There still might be deviation in technical data, functions and operations description, or errors in print. If there is any doubt or dispute, we reserve the right of final explanation.
 - Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.
 - All trademarks, registered trademarks and the company names in the manual are the properties of their respective owners.
 - Please visit our website, contact the supplier or customer service if there is any problem occurring when using the device.
 - If there is any uncertainty or controversy, we reserve the right of final explanation.

Important Safeguards and Warnings

This section introduces content covering the proper handling of the device, hazard prevention, and prevention of property damage. Read carefully before using the device, comply with the guidelines when using it, and keep the manual safe for future reference.

Operation Requirements



- Make sure that the power supply of the device works properly before use.
- Transport, use and store the device under allowed humidity and temperature conditions.
- Prevent liquids from splashing or dripping on the device. Make sure that there are no objects filled with liquid on top of the device to avoid liquids flowing into it.
- Do not disassemble the device.

Installation Requirements



WARNING

- Strictly abide by local electrical safety standards, and make sure that the voltage in the area is steady and conforms to the power requirements of the device.
- Do not connect the device to more than one power supply. Otherwise, the device might become damaged.



- Observe all safety procedures and wear required protective equipment provided for your use while working at heights.
- Do not expose the device to direct sunlight or heat sources.
- Do not install the device in humid, dusty or smoky places.
- Install the device in a well-ventilated place, and do not block the ventilator of the device.

Maintenance Requirements



- Use the accessories suggested by the manufacturer. Installation and maintenance must be performed by qualified professionals.
- Clean the device with a soft dry cloth or a clean soft cloth dipped in neutral detergent.
- Contact your local dealer or the service center nearest to you if the device needs internal configuration or maintenance. Do not dismantle or modify the device without a qualified professional present to avoid the risk of danger or damage to the device. We will assume no responsibility for any problems caused by unauthorized modifications or maintenance.

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1 Product Information

1.1 Introduction

DHI-HY-C132 Conventional Heat Detector is a mated product of the Conventional Fire Alarm Control Panel. Integrated with two-wire and polarity-free technology, this detector analyzes ambient temperature by rate of rise & fixed temperature algorithm to trigger alarms.

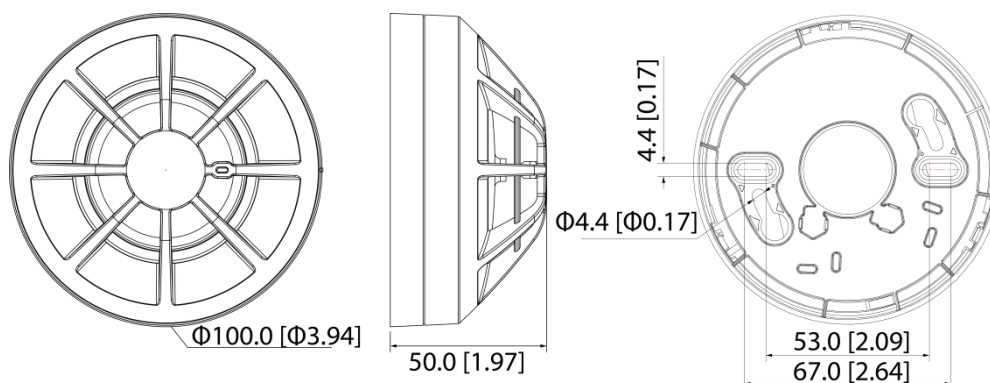
It is suitable for such industrial and civil buildings that have a great deal of heat when the fire takes place, such as kitchens, boiler rooms, generator rooms, drying workshops and smoking rooms and it is not suitable for places with a great deal of smoke but little heat, satisfying a variety of complex scenarios.

1.2 Features

- Convenient wiring: Two-wire, polarity-free
- Reliable communication: Completes EMC test, it has strong anti-electromagnetic interference ability, high stability and reliability
- Accurate detection: Rate of rise & fixed temperature algorithm satisfies a variety of complex scenarios
- Flexible installation: Non-loosening screws on base terminal for easy installation
- High endurance: Contacts material is highly acid-resistant and rust-resistant

1.3 Dimension

Figure 1-1 Dimension [mm (inch)]



2 Technical Information

Parameter	Introduction
Electrical	
Working Voltage	DC 9V-DC 30V
Rated Power	3.408 mW
Current	- Standby current: 120μA - Maximum operating current: 24mA
Indicator	Red LED - Polling: Flash 6 seconds - Alarm: Remain lit - Fault: Flash 2 seconds
Communication Wiring	
Wiring	Two-wire, polarity-free
Environment	
Operating Temperature	-10°C to +50°C (+14°F to +122°F)
Storage Temperature	-20°C to +65°C (-4°F to +149°F)
Operating Humidity	≤ 95% RH (no condensation)
Construction	
Color	White
Dimensions (with base)	Φ 100 mm × 50 mm (Φ 3.94" × 1.97")
Weight (with base)	81 g (0.18 lb)
Certification	EN54-5:2017/A1:2021

3 Device Installation

3.1 Packing List

Check the quantity and model. If you find device damage or any loss, contact the after-sales service.

3.2 Installation Steps

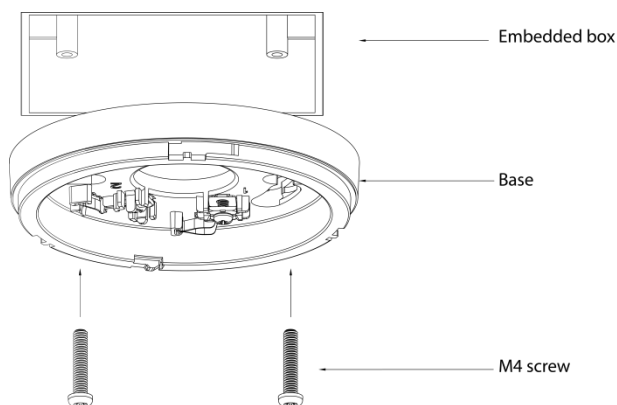
Prerequisites

- Determine the location, mounting height and numbers for mounting the device in the protection area according to the construction drawing and relevant regulations.
- Before installation, an insulation test is necessarily required. The insulation resistance between the buses should be greater than 20KΩ, and the insulation resistance of the bus to the ground should be greater than 20MΩ. It is strictly forbidden to use a megger to test the insulation resistance after completing installation.
- Disconnect the power supply of the device before installation. Ensure the correct wiring and firm connection.
- Avoid places directly above the source of heat appliance.
- Use RVS twisted pairs with a section area of 1.5 mm² or 1.0 mm² for the signal buses.

Procedure

Step 1 Use two M4 screws to fix the device base on the embedded box or designated position, and make sure the matched mounting base has been firmly installed.

Figure 3-1 Installation (1)



Step 2 Wiring the base. Connect terminals and fix on the base.



1, 2: Access terminal for the bus signal, polarity-free.

Figure 3-2 Mounting base

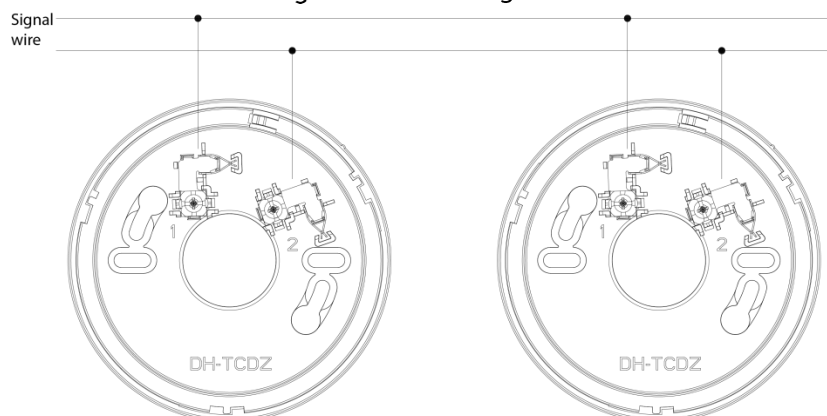
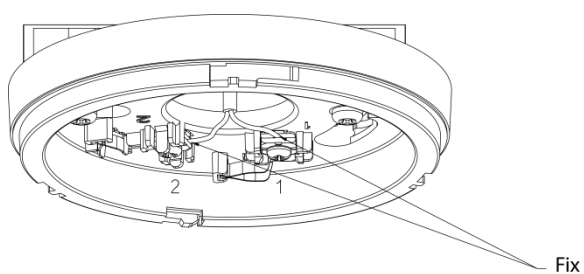


Figure 3-3 Installation (2)



Step 3 Mount the device into the base by aligning them together and twisting the unit clockwise until it is firmly locked.

Figure 3-4 Installation (3)

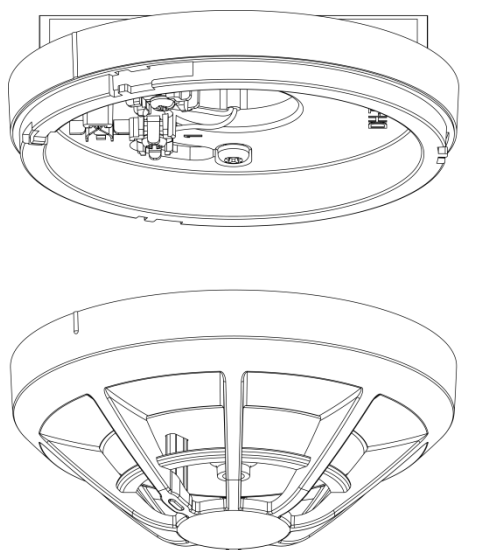
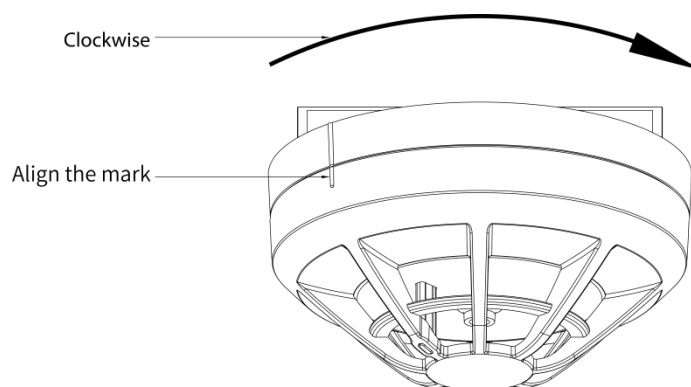


Figure 3-5 Installation (4)



Step 4 After all devices are installed and checked, connect the power supply of the Conventional Fire Alarm Control Panel and conduct automatic register. The equipment shall be powered by a limited power source or PS2 circuit.

4 FAQ

Problem	Solutions
The indicator light of the detector does not light up	Check whether the device is installed in place; if it is installed correctly, check the circuit, measure and ensure that the voltage of the equipment signal line is DC 9V-DC 30V
The indicator light of the detector is constantly on, and Fire Alarm Control Panel reports a false fire alarm	Check whether there are high-temperature interference sources such as steam near the device
The indicator light of the detector flashes quickly, and the screen of Conventional Fire Alarm Control Panel displays "Failure"	Due to corrosion, drop, violent impact, etc., the sensor has a short circuit or open circuit failure, please contact the professionals

5 Test and Maintenance

5.1 Test

- After installation and register, heat the detector by using a blower or a hot air gun. When ambient temperature reaches the alarm threshold, the indicator will turn to steady lighting and Fire Alarm Control Panel will simultaneously give alarm information.
- After completing the alarm test, reset the Fire Alarm Control Panel and restore to the normal operation.

5.2 Maintenance

To keep your device in good working condition, please follow these requirements.

- Simulate alarm test: Test the device once half a year (recommended).
- Before testing or maintaining, inform the proper authorities that the system is undergoing maintenance and will temporarily be put out of service.

Appendix 1 Cybersecurity Recommendations

Cybersecurity is more than just a buzzword: it's something that pertains to every device that is connected to the internet. IP video surveillance is not immune to cyber risks, but taking basic steps toward protecting and strengthening networks and networked appliances will make them less susceptible to attacks. Below are some tips and recommendations from Dahua on how to create a more secured security system.

Mandatory actions to be taken for basic device network security:

1. Use Strong Passwords

Please refer to the following suggestions to set passwords.

- The length should not be less than 8 characters.
- Include at least two types of characters; character types include upper and lower case letters, numbers and symbols.
- Do not contain the account name or the account name in reverse order.
- Do not use continuous characters, such as 123, abc, etc.
- Do not use overlapped characters, such as 111, aaa, etc.

2. Update Firmware and Client Software in Time

- According to the standard procedure in Tech-industry, we recommend to keep your device (such as NVR, DVR, IP camera, etc.) firmware up-to-date to ensure the system is equipped with the latest security patches and fixes. When the device is connected to the public network, it is recommended to enable the "auto-check for updates" function to obtain timely information of firmware updates released by the manufacturer.
- We suggest that you download and use the latest version of client software.

"Nice to have" recommendations to improve your device network security:

1. Physical Protection

We suggest that you perform physical protection to device, especially storage devices. For example, place the device in a special computer room and cabinet, and implement well-done access control permission and key management to prevent unauthorized personnel from carrying out physical contacts such as damaging hardware, unauthorized connection of removable device (such as USB flash disk, serial port), etc.

2. Change Passwords Regularly

We suggest that you change passwords regularly to reduce the risk of being guessed or cracked.

3. Set and Update Passwords Reset Information Timely

The device supports password reset function. Please set up related information for password reset in time, including the end user's mailbox and password protection questions. If the information changes, please modify it in time. When setting password protection questions, it is suggested not to use those that can be easily guessed.

4. Enable Account Lock

The account lock feature is enabled by default, and we recommend you to keep it on to guarantee the account security. If an attacker attempts to log in with the wrong password several times, the corresponding account and the source IP address will be locked.

5. Change Default HTTP and Other Service Ports

We suggest you to change default HTTP and other service ports into any set of numbers between 1024–65535, reducing the risk of outsiders being able to guess which ports you are

using.

6. Enable HTTPS

We suggest you to enable HTTPS, so that you visit Web service through a secure communication channel.

7. MAC Address Binding

We recommend you to bind the IP and MAC address of the gateway to the device, thus reducing the risk of ARP spoofing.

8. Assign Accounts and Privileges Reasonably

According to business and management requirements, reasonably add users and assign a minimum set of permissions to them.

9. Disable Unnecessary Services and Choose Secure Modes

If not needed, it is recommended to turn off some services such as SNMP, SMTP, UPnP, etc., to reduce risks.

If necessary, it is highly recommended that you use safe modes, including but not limited to the following services:

- SNMP: Choose SNMP v3, and set up strong encryption passwords and authentication passwords.
- SMTP: Choose TLS to access mailbox server.
- FTP: Choose SFTP, and set up strong passwords.
- AP hotspot: Choose WPA2-PSK encryption mode, and set up strong passwords.

10. Audio and Video Encrypted Transmission

If your audio and video data contents are very important or sensitive, we recommend that you use encrypted transmission function, to reduce the risk of audio and video data being stolen during transmission.

Reminder: encrypted transmission will cause some loss in transmission efficiency.

11. Secure Auditing

- Check online users: we suggest that you check online users regularly to see if the device is logged in without authorization.
- Check device log: By viewing the logs, you can know the IP addresses that were used to log in to your devices and their key operations.

12. Network Log

Due to the limited storage capacity of the device, the stored log is limited. If you need to save the log for a long time, it is recommended that you enable the network log function to ensure that the critical logs are synchronized to the network log server for tracing.

13. Construct a Safe Network Environment

In order to better ensure the safety of device and reduce potential cyber risks, we recommend:

- Disable the port mapping function of the router to avoid direct access to the intranet devices from external network.
- The network should be partitioned and isolated according to the actual network needs. If there are no communication requirements between two sub networks, it is suggested to use VLAN, network GAP and other technologies to partition the network, so as to achieve the network isolation effect.
- Establish the 802.1x access authentication system to reduce the risk of unauthorized access to private networks.
- Enable IP/MAC address filtering function to limit the range of hosts allowed to access the device.

More information

Please visit Dahua official website security emergency response center for security announcements and the latest security recommendations.

ENABLING A SAFER SOCIETY AND SMARTER LIVING

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