



Wireless Keypad

User's Manual



Foreword

General

This manual introduces the installation, functions and operations of the wireless keypad (hereinafter referred to as the "keypad"). Read carefully before using the device, and keep the manual safe for future reference.

Model

DHI-ARK30T-W2 (868); DHI-ARK30T-W2

Safety Instructions

The following signal words 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, reductions in performance, or unpredictable results.
 TIPS	Provides methods to help you solve a problem or save time.
 NOTE	Provides additional information as a supplement to the text.

Revision History

Version	Revision Content	Release Time
V1.0.0	First release.	April 2022

Privacy Protection Notice

As the device user or data controller, you might collect the personal data of others such as their face, fingerprints, and license plate number. You need to be in compliance with your local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures which include but are not limited: Providing clear and visible identification to inform people of the existence of the surveillance area and provide required contact information.

About the Manual

- The manual is for reference only. Slight differences might be found between the manual and the product.
- We are not liable for losses incurred due to operating the product in ways that are not in compliance with the manual.
- The manual will be updated according to the latest laws and regulations of related jurisdictions. For detailed information, see the paper user's manual, use our CD-ROM, scan the QR code or visit our official website. The manual is for reference only. Slight differences might be found between the electronic version and the paper version.
- All designs and software are subject to change without prior written notice. Product updates might result in some differences appearing between the actual product and the manual. Please contact customer service for the latest program and supplementary documentation.
- There might be errors in the print or deviations in the description of the functions, operations and technical data. 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 company names in the manual are properties of their respective owners.
- Please visit our website, contact the supplier or customer service if any problems occur while 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 protection, and protection of property damage. Read carefully before using the device, and comply with the guidelines when using it.

Operation Requirements



- Make sure that the power supply of the device works properly before use.
- Do not pull out the power cable of the device while it is powered on.
- Only use the device within the rated power range.
- 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

- Connect the device to the adapter before power on.
- 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.
- Use the power adapter or case power supply provided by the device manufacturer.
- The power supply must conform to the requirements of ES1 in IEC 62368-1 standard and be no higher than PS2. Note that the power supply requirements are subject to the device label.
- Connect class I electrical appliances to a power socket with protective earthing.

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1 Introduction

1.1 Overview

Wireless keypad is used with alarm hub, and supports multiple users, allowing each one to access the alarm security system with their own private passcode. The system also conveniently keeps a log of the operations performed by each user, making it easy to review and analyze usage history. It is ideal for use in villas, shops, apartments and more.

1.2 Technical Specifications

This section contains technical specifications of the keypad. Please refer to the ones that correspond with your model.

Table 1-1 Technical specifications

Type	Parameter	Description	
Function	Indicator Light	4 indicators (communication, arming and disarming, fault, and alarm)	
	Key	15 keys (0–9, *, #, arm, disarm, and home arm)	
	Buzzer	1 × built-in buzzer	
	Arm and Disarm	Passcode; IC card	
	Remote Update	Cloud update	
	Low Battery Detection	Yes	
	Tamper	Yes	
	Measuring Range (Temperature)	–15 °C to +65 °C (+5 °F to +149 °F) (indoor)	
	Measuring Accuracy	1 °C (33.8 °F)	
Wireless	Carrier Frequency	DHI-ARK30T-W2 (868): 868.0 MHz–868.6 MHz	DHI-ARK30T-W2: 433.35 MHz–434.6 MHz
	Communication Distance	DHI-ARD821-W2 (868): Up to 1,600 m (5,249.34 ft) in an open space	DHI-ARD821-W2:Up to 1,200 m (3,937.01 ft) in an open space
	Power Consumption	Max. 2.3 W	
	Communication Mechanism	Two-way	
	Encryption Mode	AES128	
	Frequency Hopping	Yes	

Type	Parameter	Description
General	Operating Temperature	–10 °C to +55 °C (+14 °F to +131 °F) (indoor)
	Operating Humidity	10%–90% (RH)
	Power Supply	4 × AA batteries
	Battery Life	3 years (if the device is used to arm and disarm once a day)
	Product Dimensions	146.0 mm × 82.0 mm × 22.6 mm (5.75" × 3.23" × 0.89")
	Packaging Dimensions	180.0 mm × 104.0 mm × 58.0 mm (7.07" × 4.09" × 2.28")
	Installation	Wall mount
	Net Weight	240 g (0.529 lb) (with battery) 145 g (0.32 lb) (without battery)
	Gross Weight	370 g (0.816 lb)
	Certifications	CE

2 Checklist

Figure 2-1 Checklist

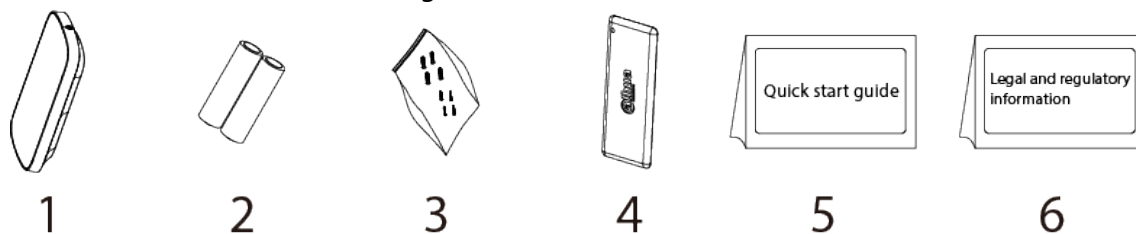


Table 2-1 Checklist

No.	Item Name	Quantity	No.	Item Name	Quantity
1	Keypad	1	4	IC card	2
2	Battery	4	5	Quick start guide	1
3	Screw package	1	6	Legal and regulatory information	1

3 Appearance

Figure 3-1 Appearance

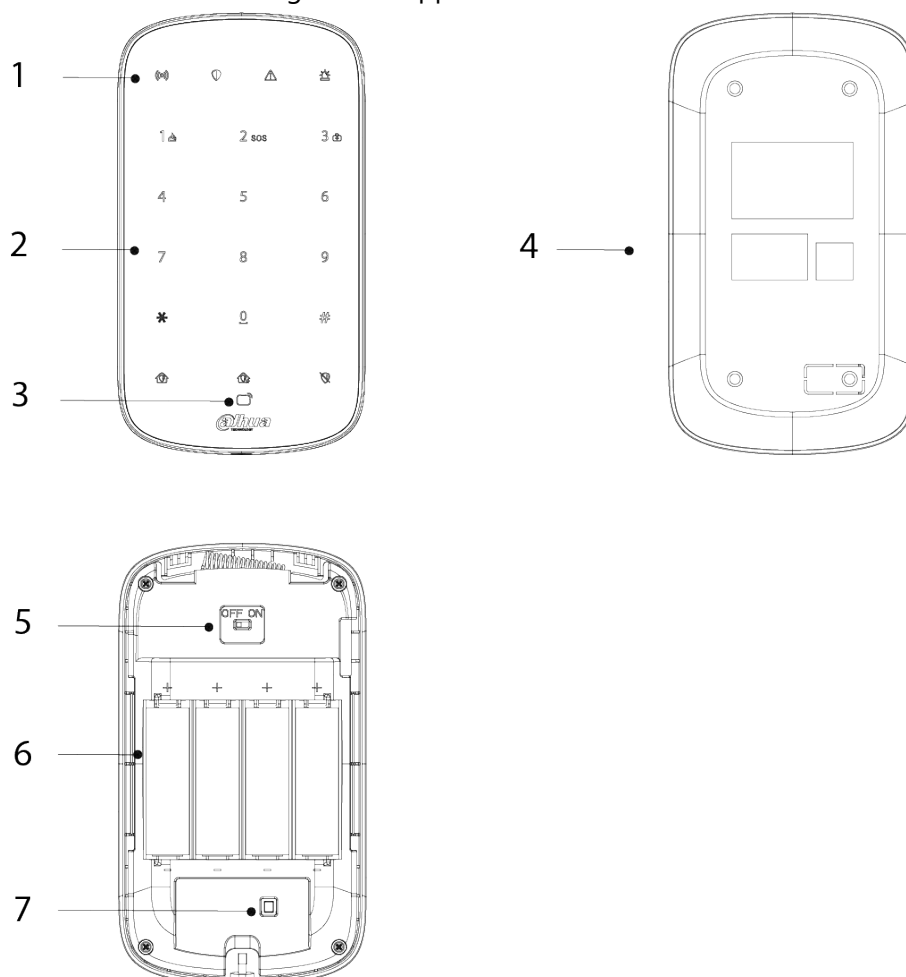


Table 3-1 Structure

No.	Name	Description
1	Indicator	There are four indicators, including communication, arming and disarming, fault, and alarm indicators. • All indicators are solid for 2 seconds: Powered on. • All indicators are off: Not enter pairing mode. • Communication indicator status: ◊ Flashes green quickly: Pairing mode. ◊ Solid green for 2 seconds: Pairing successful. ◊ Flashes green 3 times: Pairing fails. ◊ Off: Online. ◊ Flashes green slowly and other indicators are off: Offline. ◊ Flashes green slowly and other indicators are in the normal status: Enters into reduced sensitivity mode. • Arming and disarming indicator status: ◊ Solid blue: A single or more rooms are armed. ◊ Flashes green 3 times and then off: All rooms are disarmed. • Fault indicator status: ◊ Flashes yellow: Fault alarms are triggered. ◊ Off: A single or more rooms are armed, or no fault occurs. • Alarm indicator flashes red: Alarm are triggered.
2	Key	15 keys. • Numeric keys: 0-9.  1 is also the fire alarm key, 2 emergency alarm key, and 3 medical alarm key. • #: Search. • *: Space. •  Home arming. •  Away arming. •  Disarming.
3	Card swiping area	Supports IC card recognition. You can swipe your card here.

No.	Name	Description
4	Back cover	When the tamper switch is released, the tamper alarm will be triggered.
5	On/off switch	Turn on or turn off the keypad.
6	4 × Batteries	Insert batteries to power on the keypad.
7	Tamper switch	When the tamper switch is released, the tamper alarm will be triggered.

4 Adding the Keypad to the Hub

Before you connect it to the hub, install the DMSS app to your phone. This manual uses iOS as an example.



- Make sure that the version of the DMSS app is 1.98 or later, and the hub is V1.001.0000000.8.R.220319 or later.
- Make sure that the hub has a stable internet connection.
- Make sure that the hub is disarmed.

Step 1 Go to the hub screen, and then tap  to add the keypad.

Step 2 Tap  to scan the QR code at the bottom of the keypad, and then tap **Next**.

Step 3 Tap **Next** after the keypad has been found.

Step 4 Follow the on-screen instructions and switch the keypad to on, and then tap **Next**.

Step 5 Wait for the pairing.

Step 6 Customize the name of the keypad, and select the area, and then tap **Completed**.

5 Installation

Prior to installation, add the keypad to the hub and check the signal strength of the installation location. We recommend installing the keypad in a place with a signal strength of at least 2 bars.

The keypad supports wall mount.

Step 1 Loosen the screw to open the keypad.

Figure 5-1 Loosen the screw

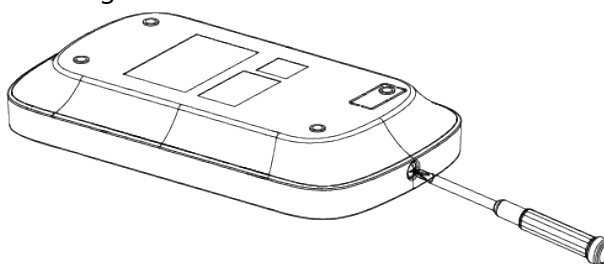
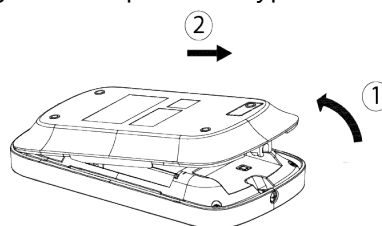


Figure 5-2 Open the keypad



Step 2 Insert four batteries into the keypad.

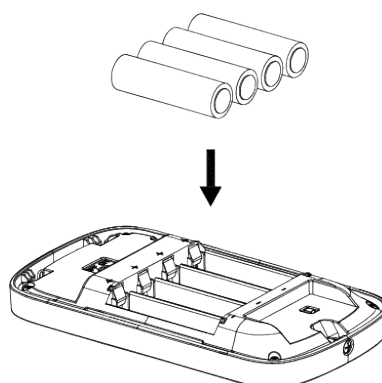


- If the battery is dead, you need to replace the battery.
- When replacing the battery, make sure that the side marked with "+" faces the back cover of the keypad.



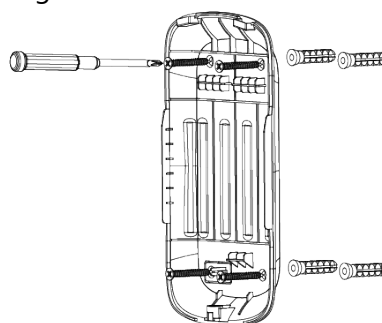
- Make sure to use the same model when replacing the battery to avoid fire or explosion.
- Make sure not to mix the old batteries with new one.

Figure 5-3 Put on the batteries



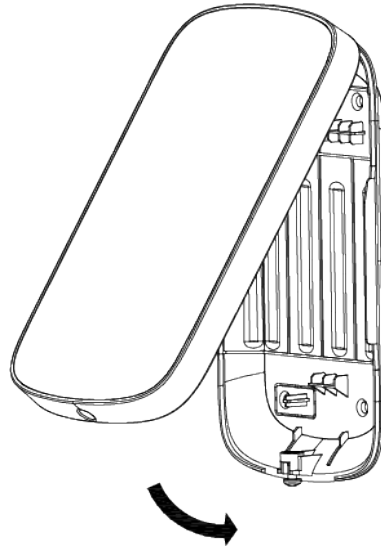
Step 3 Drill four holes in the wall according to the hole positions of the keypad, and then put the expansion bolts into the holes.

Figure 5-4 Drill holes



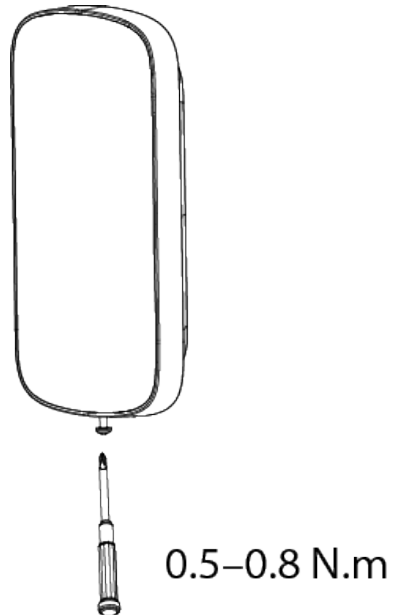
Step 4 Close the keypad.

Figure 5-5 Close the keypad



Step 5 Secure the keypad with screw.

Figure 5-6 Secure the keypad



6 Configuration

You can view and edit general information of the keypad.

6.1 Viewing Status

On the hub screen, select a keypad from the accessory list, and then you can view the status of the keypad.

Table 6-1 Status

Parameter	Value
Temporary Deactivate	The status for whether the functions of the keypad are enabled or disabled. •  : Enable. •  : Only disable tamper alarm. •  : Disable.
Temperature	The temperature of the environment.
Signal Strength	The signal strength between the hub and the keypad. •  : Low. •  : Weak. •  : Good. •  : Excellent. •  : No.
Battery Level	The battery level of the keypad. •  : Fully charged. •  : Sufficient. •  : Moderate. •  : Insufficient. •  : Low.
Anti-tampering Status	The tamper status of the keypad, which reacts to the detachment of the body.
Online Status	Online and offline status of the keypad. •  : Online. •  : Offline.
Lock Status	The status for whether the keypad is locked or not. •  : Locked. •  : Unlocked.

Parameter	Value
Transmit through Repeater	The status of whether the keypad forwards its messages to the hub through the repeater.
Program Version	The program version of the keypad.

6.2 Configuring the keypad

On the hub screen, select a keypad from the accessory list, and then tap  to configure the parameters of the keypad.

Table 6-2 Keypad parameter description

Parameter	Description
Device Configuration	- View keypad name, type, SN and device model. - Edit keypad name, and then tap Save to save configuration.
Area	Select the area to which the keypad is assigned.
Control Permissions	Used to set which area the keypad can operate.
Temporary Deactivate	Whether send commands to the alarm hub. - Tap Enable, and then the keypad will send commands to the hub. Enable is set by default. - Tap Only Disable Tamper Alarm, and then the system will only ignore tamper alarm messages. - Tap Disable, and then the keypad will not send commands to the hub.

Parameter	Description
Keypad Config	Enable the keys on the keypad first and set if an event happens. • Fire Alarm: Enable by default. After enabling the Fire Alarm, when a fire is detected, you need to press and hold the fire key on the keypad for 3 seconds to trigger fire alarms. • Link Fire Alarm to Siren: Enable by default. After enabling the function, the siren and the buzzer will be linked when fire alarms are triggered. • Emergency Alarm: Enable by default. After enabling the Emergency Alarm, when an emergency is detected, you need to press and hold the emergency key on the keypad for 3 seconds to trigger emergency alarms. • Link Emergency Alarm to Siren: Enable by default. After enabling the function, the siren and the buzzer will be linked when emergency alarms are triggered. • Medical Alarm: Enable by default. After enabling the Medical Alarm, when a fire is detected, you need to press and hold the medical key on the keypad for 3 seconds to trigger fire alarms. • Link Medical Alarm to Siren: Enable by default. After enabling the function, the siren and the buzzer will be linked when medical alarms are triggered.
Keypad Lock Status	Set the number of attempts to enter the wrong passcode and lock time for the keypad. • Enable the keypad lock function first. • For the number of attempts to enter the wrong passcode within 30 minutes, you can select from 3 to 10 times. 5 is set by default. • For the lock time, you can select from 3, 5, 10, 20, 30, 60, 90 and 180 minutes. 3 minutes is set by default.
No Passcode Arming	Set whether you can use the keypad to arm the system without passcode. Disable by default.  Enable No Passcode Arming function does not meet EN50131-1 certifications.

Parameter	Description
Transmit Power	Select from high, low, and automatic. The higher transmission power levels are, the further transmissions can travel, but power consumption increases.  If you select Low, the keypad will enter into reduced sensitivity mode.
Card Reader Config	Enable card reader function and soft encryption function on the keypad. • Card Reader: Enable by default. If enabled, the keypad supports card recognition function. If disabled, the card reader function will be turned off. • Soft Encryption: Enable by default. If enabled, card information will be encrypted when issuing the card.
Backlight Brightness	Adjust backlit keypad brightness. You can select from Off, Low and High.  When battery level is low, the backlight brightness will turn to Low automatically.
Buzzer Volume	Configure volume level of the buzzer. Select from Off, Low, and High.
Signal Strength Detection	Test the current signal strength.  Signal strength test is not supported when the keypad is in the sleep mode. You can press any key to wake up the keypad.
Cloud Update	Update online.
Delete	Delete the keypad.  Go to the hub screen, select the keypad from the accessory list, and then swipe left to delete it.

7 User Management

7.1 Adding Users

You can add, modify, or delete keypad users when it is disarmed.



Only installer and admin users have permission to add users.

Procedure

Step 1 Go to the home screen.

Step 2 Select a hub, and then select **Device Details** > **Hub Setting** > **User Manager**.

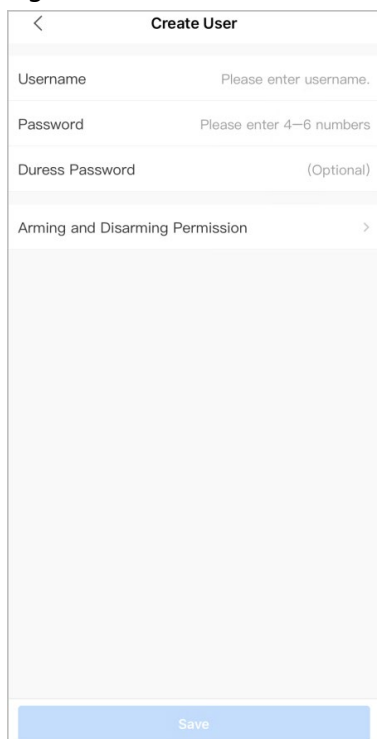
Step 3 Tap **+** to add a user.

Step 4 Enter your username, passcode, and duress passcode, and then select arming and disarming permissions for the room.



- Passcode and duress code must be 4 to 6 digits.
- Duress passcode is optional.
- Up to 32 users can be created. The first created user is the admin user by default. All the permissions are available to them.

Figure 7-1 Add a user



Step 5 Tap **Save**.

Related Operations

- Deleting a User

On the **User Manager** screen, select the user, and then swipe left to delete the user.



The admin user must be the last to be deleted.

- Modifying User's Information

On the **User Manager** screen, select the user, and then you can modify user's information, including username, passcode, duress code and arming and disarming permission.

7.2 Adding Card

You can add, modify, or delete the card when the keypad is disarmed. There are 2 ways to add the card.

- Adding the card on the **User Manager**.
- Adding the card in the accessory list.



Only installer and admin users have permission to add the card.

7.2.1 Adding Card on the User Manager

Step 1 Go to the home screen.

Step 2 Select a hub, and then select  > **Device Details** > **Hub Setting** > **User Manager**.

Step 3 Select the user to whom you want to link the card.

Step 4 Tap .

Step 5 Press any key to wake up the keypad, and then place the card near the card swiping area of the keypad to enter to the linking process within 30 seconds.

If the card information is successfully recognized, the card ID will be displayed on the app, and the keypad will beep once. After you save the configurations, the card will have the user's permissions.



Up to 8 cards can be linked to a user.

7.2.2 Adding Card in the Accessory List

Step 1 Go to the hub screen.

Step 2 Select **Accessory**.

Step 3 Tap , and then select **Add Card**.

Step 4 Press any key to wake up the keypad.

Step 5 Place the card near the card swiping area of the keypad to enter to the linking process.

Step 6 On the **Linked User** screen, you can select whether to create a new user, or link the card to the added user.

If you select to create a new user, tap **Create User**. For details on adding a user, see "7.1 Adding Users".

Step 7 Tap **Completed**.

8 Operations

8.1 Frequently Used Commands

Following are frequently used commands for the keypad.



Before using the keypad, make sure you have created accounts on the DMSS or COS app.

Table 8-1 Command

Function	Command
Global away arming	Enter the password +  + #.
Global home arming	Enter the password +  + #.
No passcode arming	Press and hold  or  .
Global disarming	Enter the password +  + #.
Away arming for a single room	Enter the password + * + Room No. +  + #.
Home arming for a single room	Enter the password + * + Room No. +  + #.
Disarming for a single room	Enter the password + * + Room No. +  + #.
Searching for the room status	Enter the password + * + Room No. + #.
Clear	Press and hold #.

8.2 Waking Up the Keypad

Press and hold any key for more than 0.1 seconds to wake up the keypad. When you hear a short beep, and see all the indicator lights are solid, then you can use it.



- If you do not use the keypad for more than 4 seconds, the backlit LCD display will be dim, and the status of the indicator light will remain the same.
- If you do not use the keypad for more than 12 seconds, the keypad will beep twice, all the indicator lights will turn off, and then the keypad will enter sleep mode.
- To wake up the keypad when it is offline, the communication indicator will flash green slowly, and other indicator lights, including arming and disarming, fault, and alarm indicators, will turn off.

8.3 Arming

- To arm all the rooms, you can enter the arming commands or swipe the card.



To arm the system without a passcode, you can enable the **No Passcode Arming** function first, and then press and hold  or .

- To arm a single room, you can enter the relevant arming command.



- ◇ If the arming is successful, the arming and disarming indicator light will flash blue 3 times slowly, and then will remain solid, with one short beep.
- ◇ If the arming fails because of the potential faults, the arming and disarming indicator light will flash green twice quickly, and then it will go back to the normal status, with one long beep. And if you enter the same arming command again within 30 seconds, or swipe the same card again within 10 seconds, you can force arm the room.
- ◇ If arming fails because of reasons such as using the wrong passcode or invalid card, or allowing people with no permission to use the keypad, the backlit light will flash twice quickly with one long beep.



By swiping the card, you can only use global away arming.

8.4 Disarming

- If global disarming is successful, the arming and disarming indicator light will flash green 3 times slowly, and then turn off, with 2 short beeps.



After successfully disarming the system, if there are system faults, the fault indicator light will flash yellow slowly.

- If disarming for a single room is successful, the arming and disarming indicator light will slowly flash green 3 times, and then it will go back to the normal status, with 2 short beeps.
- If disarming fails because of reasons such as using the wrong passcode or invalid card, or allowing people with no permission to use the keypad, the backlit light will flash twice quickly with one long beep.



- ◇ If one or more rooms associated with the card are in the arming status, then all the associated rooms will be disarmed if you swipe the card.
- ◇ If all the rooms associated with the card are in the disarming status, then all the associated rooms will be armed if you swipe the card.

8.5 Searching for the Room Status

You are only allowed to search for the status of a single room.

- If your search is successful, the keypad will beep once, and indicator lights will show the room status.
 - ◇ The arming and disarming indicator light will glow blue for 6 seconds if the room is armed.
 - ◇ The arming and disarming indicator light will slowly flash green 3 times slowly if the room is disarmed.
 - ◇ The fault indicator light is solid on for 6 seconds if there are faults on the peripherals and the hub.
 - ◇ The alarm indicator light is solid on for 6 seconds if alarm events occur in the room.
- If your search fails because of reasons such as using the wrong passcode or invalid card, or searching for a room that is not associated with the card, the backlit lights will flash 3 times quickly with one long beep. When the beep stops, the indicator light will go back to the normal status.

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

Legal and Regulatory Information

Legal Considerations

Video surveillance can be regulated by laws that vary from country to country. Check the laws in your local region before using this product for surveillance purposes.

Disclaimer

Every care has been taken in the preparation of this document. Please inform your nearest Dahua office of any inaccuracies or omissions. Dahua Technology shall not be held responsible for any technical or typographical errors and reserves the right to make changes to the product and manuals without prior notice. Dahua Technology makes no warranty of any kind with regard to the material contained within this document, including, but not limited to, the implied warranty of merchantability and fitness for a particular purpose. Dahua Technology shall not be liable or responsible for incidental or consequential damages in connection with the furnishing, performance or use of this material. This product is only to be used for its intended purpose.

Intellectual Property Rights

Dahua Technology retains all intellectual property rights relating to technology embodied in the product described in this document.

Equipment Modifications

This equipment must be installed and used in strict accordance with the instructions given in the user documentation. This equipment contains no user-serviceable components. Unauthorized equipment changes or modifications will invalidate all applicable regulatory certifications and approvals.

Trademark Acknowledgments

  are registered trademarks or trademark applications of Dahua Technology in various jurisdictions. All other company names and products are trademarks or registered trademarks of their respective companies.

Regulatory Information

European Directives Compliance

-  This product complies with the applicable CE marking directives and standards:
- Low Voltage (LVD) Directive 2014/35/EU.
 - Electromagnetic Compatibility (EMC) Directive 2014/30/EU.

01

Privacy Protection Notice

As the device user or data controller, you might collect personal data of others such as face, fingerprints, car plate number, Email address, phone number, GPS and so on. You need to be in compliance with the local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures, including but not limited to: providing clear and visible identification to inform data subject the existence of surveillance area and providing related contact.

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.
- 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 for the 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.

Support

Should you require any technical assistance, please contact your Dahua distributor. If your questions cannot be answered immediately, your distributor will forward your queries through the appropriate channels to ensure a rapid response. If you are connected to the Internet, you can:

- Download user documentation and software updates.
- Search by product, category, or phrase.
- Report problems to Dahua support staff by logging in to your private support area.
- Chat with Dahua support staff.
- Visit Dahua Support at www.dahuasecurity.com/support/.

Contact Information

ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.
Address: No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China

05

Signalord	Beskrivelse
	Angiver høj risiko, som, hvis den ikke undgås, kan medføre død eller alvorlig personskade.
	Angiver middel eller lav risiko, som, hvis den ikke undgås, kan medføre lettere til moderat personskade.
	Angiver mulig risiko, som hvis den ikke undgås, kan resultere i skade på ejendom, tab af data, reduceret ydelse eller uforudsigelige resultater.
	Indeholder forslag, som hjælper dig med at løse et problem eller spare tid.
	Indeholder yderligere oplysninger, som understreger og supplerer teksten.

Sikkerhedskrav

- Følg lokale standarder for sikkerhed for at sikre, at spændingen er stabil og i overensstemmelse med produktets krav til strømforsyning.
- Transportér, brug og opbevar produktet i henhold til de tilladte klimatiske forhold (temperatur og luftfugtighed). Se produktets tekniske specifikationer for specifik temperatur og luftfugtighed ved drift.
- Placer ikke produktet et sted med fugt, støv, stærk varme eller kulde, stærk elektronisk udstråling eller ustabile lysforhold.
- Installer ikke produktet i nærheden af en varmekilde, såsom en radiator, et varmeapparat, et centralfyr eller andre varmeafgivende enheder, for at undgå ildbrand.
- Undgå, at væske løber ind i produktet og dermed forårsager skade på de elektriske komponenter.
- Installer produktet vandret, eller installer det et stabilt sted for at undgå, at det falder ned.
- Installer produktet et sted med god udluftning og bloker ikke produktets ventilationsåbninger.
- Adskil ikke produktet.
- Undgå stærkt tryk, kraftige vibrationer og gennembledning under transport, opbevaring og installation. Produktet skal være fuldt emballeret under transport.
- Brug fabriksemballagen eller tilsvarende til transporten.

Batteri

Lav batterispendning påvirker driften af ledelsesuret og får uret til at nulstille, hver gang produktet tændes. Der vises en logbesked i produktets serverapparat, når batteriet skal udskiftes. Se konfigurationsiderne til produktet, eller kontakt Dahuas supportteam for at få flere oplysninger om serverapparatet.

ADVARSEL

- Der er risiko for eksplosion, hvis batteriet udskiftes forkert.
- Ikke tænd kun med et tilsvarende batteri eller et batteri, der anbefales af Dahua.
- Bortskaf brugte batterier i overensstemmelse med lokale bestemmelser eller batteriproducentens anvisninger.

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- Spazivajte mestnrite standartu za elektricheska bezopasnost, za da osigurite stabilno naprijenje, otgovarajuro na iziskivaneto za zaxranavane na ustrojstvo.
- Transportirajte i ispolnzavajte i ispolnzavajte ustrojstvo pri ukazivani uslovu na vlažnost i temperatura. Napravete spravka v sovjetnrite tehničeskie spetsifikacii na ustrojstvo za konkretnata rabotna temperatura i vlažnost.
- Ne postavajte ustrojstvo na mesto, izpolzovano na vlaga, prah, mnogo visoka ili niska temperatura, sys silno elektronio izpolnzavanie ili na mesto s promennivo osvetlenie.
- Ne postavajte ustrojstvo blizko do istočnika na toplina, kato radiator, naprjavatel, peč, ili drugo ustrojstvo za generiranje na toplina, za da izbežete požar.
- Ne dopuskajte v ustrojstvo do poljadne tehnost, za da ne povredite vtvorjenite komponenti.
- Montirajte ustrojstvo horizontalno ili go postavete na stabilno mesto, za da ne padne.
- Montirajte ustrojstvo na dobre provetritvo mesto i ne blokirajte ventilacijata na ustrojstvo.
- Ne razglobojavate ustrojството произвожно.
- Izбягвайте силно натоварване, вибрации и намокряне по време на транспортиране, съхранение и монтаж. При транспортиране следва да се опакова напълно.
- Използвайте за транспортиране фабричната опаковка или подобна.

Батерия

Ниската мощност на батерията влияе на работата на часовника в реално време (RTC), което води до нулиране при усъщо включване. Часовът батерията трябва да бъде сменена, в отчета на съдържана на продукта ще се покаже съобщение. За повече информация относно отчета на съдържана вижте страниците за настройка на продукта или се свържете с екипа на Dahua.

ΠΡΟΕΙΔΕΥΣΗ

- Αко батерията е неправилно подменена, има риск от експлозия.
- Сменяйте само със същата или батерия, препоръчана от Dahua.
- Избягвайте използването батерии в съответствие с местните разпоредби или инструкциите на производителя на батерията.

Romănesc

Masuri de siguranta si Attentionari

Acest capitol descrie indicațiile de utilizare corectă a Dispozitivului , prevenirea pericolului și prevenirea distrugerii proprietății.Citiți aceste rânduri înainte folosiri dispozitivului.

Instrucțiuni de siguranta

Urmatoarele semne categorizate pot aparea in Ghid .

Signal Words	Meaning
	Indică un risc potențial ridicat care, dacă nu este evitat, va duce la deces sau vătărnări grave.

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- Restrictions of Hazardous Substances (RoHS) Directive 2011/65/EU and its amendment Directive (EU) 2015/863.

A copy of the original declaration of conformity may be obtained from Dahua Technology.

The most up to date copy of the signed EU Declaration of Conformity (DoC) can be downloaded from: www.dahuasecurity.com/support/notice/

CE-Electromagnetic Compatibility (EMC)

This digital equipment is compliant with Class B according to EN 55032.

CE-Safety

This product complies with IEC/EN/UL 60950-1 or IEC/EN/UL 62368-1, Safety of Information Technology Equipment.

Declaration of Conformity CE

(Only for the product has RF function)

Hereby, Dahua Technology declares that the radio equipment is compliant with Radio Equipment Directive (RED) 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.dahuasecurity.com/support/notice/

USA Regulatory Compliance

FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC SDOCC Statement can be downloaded from: <https://us.dahuasecurity.com/support/notices/>

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English

Important Safeguards and Warnings

This Chapter describes the contents covering proper handling of the device, hazard prevention, and prevention of property damage. Read these contents carefully before using the device, comply with them when using, and keep it well for future reference.

Safety Instructions

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

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

Safety Requirement

- Abide by local electrical safety standards to ensure that the voltage is stable and complies with the power supply requirement of the device.
- Transport, use, and store the device under the allowed humidity and temperature conditions. Refer to the corresponding technical specifications of device for specific working temperature and humidity.
- Do not place the device in a location exposed to dampness, dust, extreme hot or cold, strong electronic radiation, or unstable lighting conditions.
- Do not install the device in a place near the heat source, such as radiator, heater, furnace, or other heat generating device to avoid fire.
- Prevent liquid from flowing into the device to avoid damage to internal components.
- Install the device horizontally or install on the stable place to prevent it from falling.
- Install the device in a well-ventilated place, and do not block the ventilation of the device.

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Suomi

Tärkeitä varotoimenpiteitä ja varoituksia

Tässä luvussa kuvataan laitteen asianmukainen käsittely, vaarojen torjunta ja omaisuusvahinkojen estäminen. Lue tämä sisälu huolellisesti ennen laitteen käyttämistä ja noudata näitä ohjeita, kun käytät laitetta. Säilytä ohjeet tulevia tarpeita varten.

Turvallisuusohe

Seuraavat luokitellut huomoisanat kuvattulla merkityksellä saatavat esiintyä ohjeissa.

Huomoisanat	Merkitys
	Ilmaisee suuren potentiaalisen vaaran, joka johtaa kuolemaan tai vakavaan loukkaantumiseen, jos sitä ei vältetä.
	Ilmaisee keskiuuden tai pienen potentiaalisen vaaran, joka saattaa johtaa lievään tai korjaalaiseen loukkaantumiseen, jos sitä ei vältetä.
	Ilmaisee mahdollisen vaarallisen tilanteen, joka saattaa johtaa omaisuusvahinkoon, tietojen menetykseen, suoritusstehon heikkenemiseen tai oodattamattomiin tuloksiin, jos sitä ei vältetä.
	Tarjoavat apua ongelmien ratkaisemiseen tai säästävät aikaa.
	Tarjoaa lisätietoa, joka korostaa tai täydentää tekstiä.

Turvallisuusvaatimus

- Noudatta paikallisia sähköturvallisuusstandardeja varmistaksesi, että jännite on vakaa ja vastaa laitteen virtajännitteen asetuksia vaatimuksi.
- Kuljeta, käytä ja säilytä laitetta sallituissa kosteus- ja lämpötilaolosuhteissa. Käsitä laitteen erityinen käyttölämpötilaja -kosteus laitteen vastaavista oimistustiedoista.
- Älä sijaita laitetta paikkaan, jossa se altistuu kosteudelle, pölylle, erittäin kuivalle tai kylmälle lämpötilalle, voimakkaalle sähköisäilylle tai epävakaille tilaolosuhteille.
- Älä asenna laitetta lähelle lämmönalohdetta, kuten lämpöpatteria, lämmitintä, uunia tai muuta lämpöä tuottavaa laitetta, tulipalon välttämiseksi.
- Vältä nesteen pääsyä laitteen sisälle sisäisten komponenttien vahingoittumisen estämiseksi.
- Asenna laite vaakasoraan tai asenna se vaakaaseen paikkaan estääksesi sen kaatumisen.
- Asenna laite hyvin ilmastoituihin paikkaiin äläkä peitä laitteen tuuletusaukkoja.
- Älä pura laitetta omavaltaisesti.
- Vältä kovaa rasistusta, voimakasta tärinää ja kosteusta kuljetuksen, säilytyksen ja asennuksen aikana. Kuljetus vaatii täydellisen pakkaamisen.
- Käytä tehtaan pakkausta tai vastaavaa kuljetuksen aikana.

Paristo

Ahlainen pariston varausasto vaikuttaa tosiaikakellon (RTC:n) toimintaan nolaten sen jokaisella käynnistyskerralla. Luvosieli ilmeisty tuotteen parveleinraportti, kun paristo on vaihdettava. Lisätietoa parveleinraportista saat tuotteen

Signal Words	Meaning
	Indică un pericol potențial mediu sau scăzut care, dacă nu este evitat, poate duce la rări uoare sau moderate.
	Indică un risc potențial care, dacă nu este evitat, ar putea duce la daune materiale, pierderi de date, performanțe mai scăzute sau rezultate imprevizibile.
	Ofere metode care să vă ajute să rezolvați o problemă sau să economisiți timp.
	Ofere informații suplimentare ca accent și supliment la text.

Cerinte de siguranta

- Respectați standardele locale de siguranță electrică pentru a vă asigura că tensiunea este stabilă și respectă cerințele de alimentare ale dispozitivului.
- Transportați, utilizați și depozitați dispozitivul sub condițiile de umiditate și temperatură admise. Consultați specificațiile tehnice corespunzătoare ale dispozitivului pentru temperatură și umiditate specifice de lucru.
- Nu așezați dispozitivul într-o locație expusă la umezeală, praf, extrem de caldă sau rece, de radiații electronice puternice sau de condiții de iluminare instabile.
- Nu instalați dispozitivul într-un loc în apropierea sursei de căldură, cum ar fi radiatorul, încălzitorul, cuptorul sau alt dispozitiv generator de căldură, pentru a evita incendii.
- Impedicați curgerea lichidului în dispozitiv pentru a evita deteriorarea componentelor interne.
- Instalați dispozitivul în poziție orizontală sau instalați-l pe un loc stabil pentru a preveni căderea acestuia.
- Instalați aparatul într-un loc bine ventilat și nu blocați ventilația aparatului.
- Nu dezamblați dispozitivul voi.
- Evitați loviturile puternice, vibrațiile violente și umiditatea în timpul transportului, depozitării și instalării. Este necesar un pachet complet în timpul transportului.
- Utilizați pachetul de fabrica sau echivalent în timpul transportului.

Baterie

Puterea redusă a bateriei afectează funcționarea RTC, determinând resetarea la ficare pornire. Când bateria are nevoie de înlocuire, în raportul serverului produsului va apărea un mesaj de jurnal. Pentru mai multe informații despre raportul serverului, consultați paginile de configurare ale produsului sau contactați distribuitorul Dahua.

AVERTIZARE

- Risc de explozie dacă bateria este înlocuită incorect.
- Înlocuiți numai cu o baterie identică sau cu o baterie recomandată de Dahua.
- Amuțai bateriile în conformitate cu reglementările locale sau cu instrucțiunile producătorului bateriei.

RF exposure warning

(Only for the product has RF communication function)

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.

This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body.

Canada Regulatory Compliance

ICES-003

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- This device may not cause interference, and
- This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- l'appareil ne doit pas produire de brouillage, et
- l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF exposure warning

(Only for the product has RF communication function)

This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body.

Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'attention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

03

- Do not disassemble the device arbitrarily.
- Avoid heavy stress, violent vibration, and soaking during transportation, storage, and installation. Complete package is necessary during the transportation.
- Use the factory package or the equivalent for transportation.

Battery

Low battery power affects the operation of the RTC, causing it to reset at every power-up. When the battery needs replacing, a log message will appear in the product's server report. For more information about the server report, see the product's setup pages or contact Dahua support.

-  **WARNING**
- Risk of explosion if the battery is incorrectly replaced.
 - Replace only with an identical battery or a battery which is recommended by Dahua.
 - Dispose of used batteries according to local regulations or the battery manufacturer's instructions.

Polski

Ważne środki ostrożności i ostrzeżenia

Niniejszy rozdział opisuje właściwe sposoby korzystania z urządzenia, sposoby zapobiegania zagrożeniom, a także sposoby zapobiegania uszkodzeniu mienia. Przed rozpoczęciem korzystania z urządzenia zapoznaj się dokładnie z tymi informacjami i zachowaj je na przyszłość do celów referencyjnych.

Instrukcje dot. bezpieczeństwa

W podręczniku mogą pojawić się następujące symbole. Ich znaczenie wyjaśnia poniższa tabela.

Symbol	Znaczenie
	Oznacza potencjalne zagrożenie wysokiego stopnia, którego nieuniknienie może skutkować poważnymi urazami lub śmiercią.
	Oznacza potencjalne zagrożenie średniego lub niskiego stopnia, którego nieuniknienie może skutkować pomniejszonymi lub średnimi urazami.
	Oznacza potencjalne zagrożenie, którego nieuniknienie może skutkować zniszczeniem mienia, utratą danych, spadkiem wydajności lub mied innymi nieprzewidzianymi skutki.
	Oznacza wskazówki pozwalające na rozwiązanie problemu lub oszczędność czasu.
	Oznacza informacje uzupełniające tekst główny.

Japan Regulatory Compliance

VCCI

These products comply with the requirements of VCCI Class B Information Technology Equipment.

Batteries

Correct disposal of batteries in this product

 This marking on the battery indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in Directive 2006/66/EC and its amending Directive 2013/56/EU. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

CAUTION

Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

Safety

The product complies with IEC/EN/UL 60950-1, Information Technology Equipment – Safety – Part 1: General Requirements; or complies with IEC/EN/UL 62368-1, Audio/video, information and communication technology equipment – Part 1: Safety requirements.

If the power supply to the product is from external power adaptor without connecting to AC Mains, and the product is not shipped with power adaptor, customers are required to use the external power adaptor that must fulfill the requirements for Safety Extra Low Voltage (SELV) and Limited Power Source (LPS).

Waste Electrical and Electronic Equipment (WEEE) statements

Disposal and Recycling

When this product has reached the end of its useful life, dispose of it according to local laws and regulations. For information about your nearest designated collection point, contact your local authority responsible for waste disposal. In accordance with local legislation, penalties may be applicable for incorrect disposal of this waste.

 This symbol means that the product shall not be disposed of together with household or commercial waste. Directive 2012/19/EU on waste electrical and electronic equipment (WEEE) is applicable in the European Union member states. To prevent potential harm to human health and the environment, the product must be disposed of in an approved and environmentally safe recycling process. For information about your nearest designated collection point, contact your local authority responsible for waste disposal. Businesses should contact the product supplier for information about how to dispose of this product correctly.

Wymogi dot. Bezpieczeństwa

- Przeznaczaj lokalnych standardów bezpieczeństwa elektrycznego celem upewnienia się, że źródło napięcia jest stabilne i zgodnie z wymogami określonymi dla urządzenia.
- Urządzenie należy transportować, używać i przechowywać w warunkach o dozwolonym poziomie wilgotności i temperatury. Szczegółowe informacje na temat wilgotności i temperatury roboczej znaleźć można w odpowiedniej specyfikacji technicznej urządzenia.
<