

HIKVISION



IR Speed Dome

Quick Guide

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Thank you for purchasing our product. If there are any questions, or requests, please do not hesitate to contact the dealer.

This manual applies to **IR Speed Dome**.

This manual may contain several technical incorrect places or printing errors, and the content is subject to change without notice. The updates will be added to the new version of this manual. We will readily improve or update the products or procedures described in the manual.

DISCLAIMER STATEMENT

“Underwriters Laboratories Inc. (“UL”) has not tested the performance or reliability of the security or signaling aspects of this product. UL has only tested for fire, shock or casualty hazards as outlined in UL’s Standard(s) for Safety, UL60950-1. UL Certification does not cover the performance or reliability of the security or signaling aspects of this product. UL MAKES NO REPRESENTATIONS, WARRANTIES OR CERTIFICATIONS WHATSOEVER REGARDING THE PERFORMANCE OR RELIABILITY OF ANY SECURITY OR SIGNALING RELATED FUNCTIONS OF THIS PRODUCT.”

Regulatory Information

FCC Information

FCC compliance: This equipment has been tested and found to comply with the limits for a digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Conditions

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

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

EU Conformity Statement



This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Low Voltage Directive 2006/95/EC, the EMC Directive 2004/108/EC, the RoHS Directive 2011/65/EU.



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.



Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into **Warnings** and **Cautions**:

Warnings: Neglecting any of the warnings may cause serious injury or death.

Cautions: Neglecting any of the cautions may cause injury or equipment damage.

| | |
|---|--|
|  |  |
| Warnings Follow these safeguards to prevent serious injury or death. | Cautions Follow these precautions to prevent potential injury or material damage. |



Warnings

- All the electronic operation should be strictly compliance with the electrical safety regulations, fire prevention regulations and other related regulations in your local region.
- Please use the power adapter, which is provided by normal company. The power consumption cannot be less than the required value.
- Do not connect several devices to one power adapter as adapter overload may cause over-heat or fire hazard.
- Please make sure that the power has been disconnected before you wire, install or dismantle the speed dome.
- When the product is installed on wall or ceiling, the device shall be firmly fixed.
- If smoke, odors or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.
- If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the speed dome yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)



Cautions

- Do not drop the dome or subject it to physical shock, and do not expose it to high electromagnetism radiation. Avoid the equipment installation on vibrations surface or places subject to shock (ignorance can cause equipment damage).
- Do not place the dome in extremely hot, cold, dusty or damp locations, otherwise fire or electrical shock will occur. Please refer to the product specification manual for the device operating temperature.
- The dome cover for indoor use shall be kept from rain and moisture.
- Exposing the equipment to direct sun light, low ventilation or heat source such as heater or radiator is forbidden (ignorance can cause fire danger).

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- Do not aim the speed dome at the sun or extra bright places. A blooming or smear may occur otherwise (which is not a malfunction however), and affecting the endurance of sensor at the same time.
- Please use the provided glove when open up the dome cover, avoid direct contact with the dome cover, because the acidic sweat of the fingers may erode the surface coating of the dome cover.
- Please use a soft and dry cloth when clean inside and outside surfaces of the dome cover, do not use alkaline detergents.
- Please keep all wrappers after unpack them for future use. In case of any failure occurred, you need to return the speed dome to the factory with the original wrapper. Transportation without the original wrapper may result in damage on the speed dome and lead to additional costs.
- Do not stare at infrared LED closely to avoid hurting your eyes when the infrared lights are on.

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1 Overview

Please make sure the power of the speed dome has been disconnected before connecting the cables.

The cable interfaces of speed dome are shown in following figure. The cables are distinguished by different colors. The labels attached on the cables are for identification.

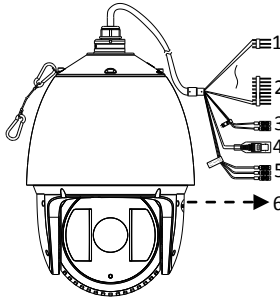


Figure 1-1 Overview

Table 1-1 Overview

| No. | Description |
|-----|-------------|
| 1 | Alarm Out |
| 2 | Alarm In |
| 3 | RS-485 |
| 4 | Video Cable |
| 5 | Power Cable |
| 6 | DIP Switch |

The typical connecting system of the speed dome is as follows:



Figure 1-2 Connecting Diagram

2 Installation

Before you start:

- Check the package contents and make sure that the device in the package is in good condition and all the assembly parts are included.
- Make sure the wall is strong enough to withstand at least 8 times the weight of the dome and the mount.
- For cement wall, you need to use the expansion screw to fix the mount.
- The long-arm wall mount is taken as the example for following mounting steps.

Note: Do not drag the speed dome with its waterproof cables as shown in Figure 2-1, otherwise the waterproof performance is affected.

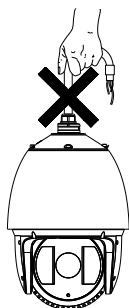


Figure 2-1 Do Not Drag the Cables

Steps:

1. Remove the protective sticker from the dome drive.
2. Loosen the screws on the SWITCH cover which is on one side of the speed dome as shown in Figure 2-3.
3. Remove the SWITCH cover and set the address, baudrate, protocol, etc. by switching the DIP switch in the speed dome. For the detailed DIP switch settings, please refer to section 3 DIP Switch Settings.
4. Attach the SWITCH cover back after the DIP settings.
5. Tighten the screws to secure the cover.

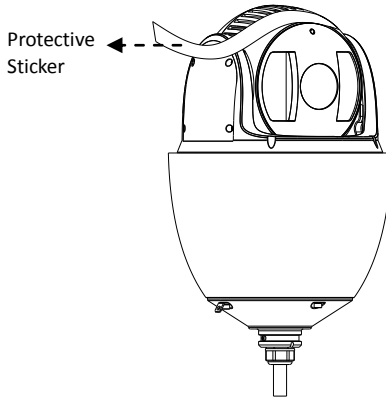


Figure 2-2 Protective Sticker

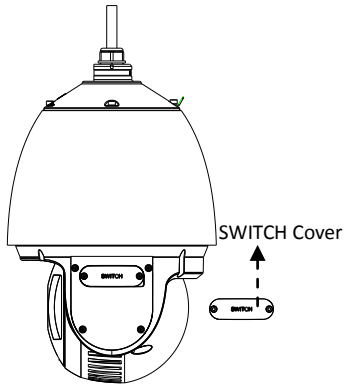


Figure 2-3 DIP Switch

6. Drill 4 screw holes in the wall according to the holes of the mount.
7. Secure the wall mount to the wall with the M8 expansion screws.

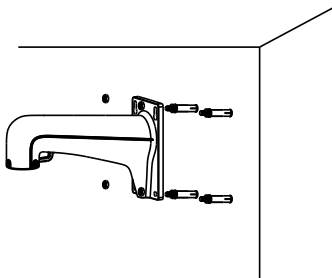


Figure 2-4 Secure the Mount

Notes:

- The mount in Figure 2-4 is the recommended mount for this series of speed dome, and a pendent adapter is required if any other mount is selected. See Figure 2-5.
- The dimension of pendant adapter is $G1\frac{1}{2}$.

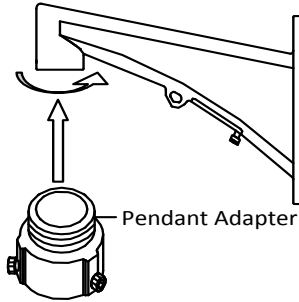


Figure 2-5 Pendent Adapter

8. Install the speed dome to the mount.

- 1). Hang the safety rope to the speed dome and then hook to the mount as shown in Figure 2-6.
- 2). Route the cables of the speed dome through the wall mount.
- 3). Connect the corresponding video/power/RS-485/alarm cables.
- 4). Loosen the two lock screws on the wall mount.
- 5). Install the speed dome to the mount, and secure the speed dome by rotating the speed dome clockwise.
- 6). Secure the two lock screws with the Allen wrench.

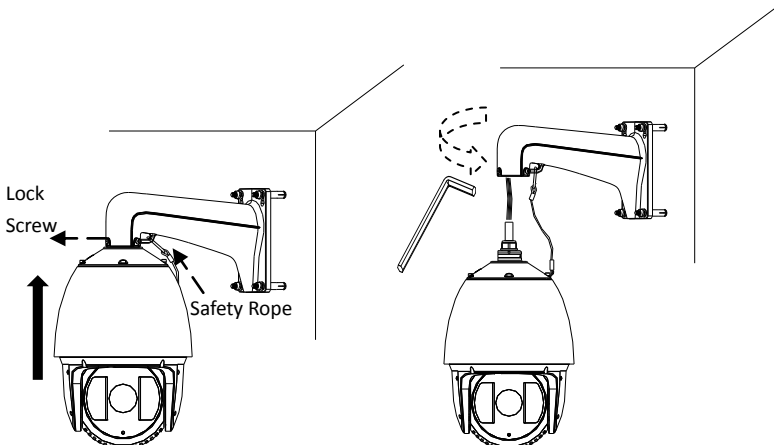


Figure 2-6 Secure the Speed Dome

Note: The speed dome without wiper is taken as the example in this manual. The appearance of wiper speed dome is shown in the following figure. The installation and configuration methods are the same.

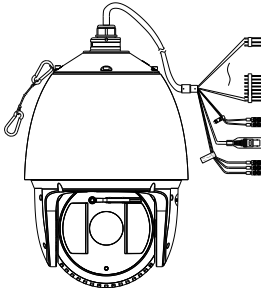


Figure 2-7 Speed Dome with Wiper

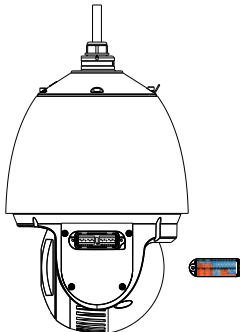
3 DIP Switch Settings

Two DIP switches SW1 and SW2 are for setting the speed dome address, baudrate, protocol, etc., with value ON=1 and OFF=0. The switch label is on the back of the SWITCH cover as shown in Figure 3-1.

Each number of the switch represents a DIP value, ranging from 1 to 8 for the lowest to highest. Please refer to Section 3.1 to 3.2 for detailed settings.

Notes:

- The default dome address is 0. The default baudrate is 2400. The default value of the 120Ω terminator is OFF.
- The speed dome is self-adaptive to the Pelco-P, Pelco-D and Private-Code. You don't have to set the RS-485 control protocol by the DIP switch.



| Sw1 | Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|--------|------------|-----|-----|-----|----------------------|--------|-----|-----|-----|
| Switch | Value | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 |
| | Rx Address | 1 | on | off | off | off | off | off | off |
| | Rx Address | 255 | on | on | on | on | on | on | on |
| Sw2 | Number | 1 | 2 | 3 | AD | 4 | 5 | 6 | |
| 2400 | Baud | on | off | off | AD | on | on | on | |
| 4800 | Baud | off | on | off | RS 485 | Others | | | |
| 9600 | Baud | on | on | off | Only for Analog Dome | | | | |

Figure 3-1 DIP Switches of High Speed Dome

1.1 Address Settings

The SW1-switches from 1 to 8 are used for setting the address of speed dome. You can refer to Table 3-1 for details of setting the speed dome address to a specific number.

Table 3-1 Set the Dome Address

| Switch number Dome Address | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 0 | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| 1 | ON | OFF | OFF | OFF | OFF | OFF | OFF | OFF |
| 2 | OFF | ON | OFF | OFF | OFF | OFF | OFF | OFF |
| 3 | ON | ON | OFF | OFF | OFF | OFF | OFF | OFF |
| 4 | OFF | OFF | ON | OFF | OFF | OFF | OFF | OFF |
| 5 | ON | OFF | ON | OFF | OFF | OFF | OFF | OFF |
| 6 | OFF | ON | ON | OFF | OFF | OFF | OFF | OFF |
| ... | ... | ... | ... | ... | ... | ... | ... | ... |
| 255 | ON | ON | ON | ON | ON | ON | ON | ON |

3.2 Baudrate Settings

The number 1, 2 and 3 SW2-switches are used for setting the baudrate of the speed dome. The baudrate can be 2400bps, 4800bps, 9600bps. The baudrate will be set as 2400bps by default if it is out of this range. Refer to the following table:

Table 3-2 Set the Baudrate of the Dome

| Switch Number Baudrate | 1 | 2 | 3 |
|---------------------------|-----|-----|-----|
| 2400 | ON | OFF | OFF |
| 4800 | OFF | ON | OFF |
| 9600 | ON | ON | OFF |

4 Accessing the Main Menu

You need to use the OSD(On Screen Display) menu when controlling the speed dome remotely. To display the OSD menu on the live view screen, you can call the preset number 95 by the remote control devices. Refer to the user manual shipped with your remote control devices for details.

The main menu interface is shown as follows:

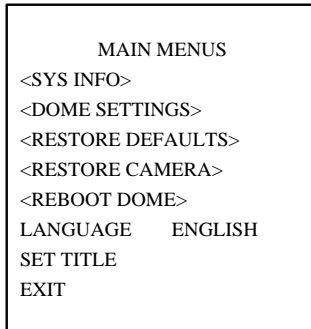


Figure 4-1 Main Menu

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