DS-PR1-60
Security Radar

HIKVISION

ENGLISH

Diagram References

1 Indictaor
a. Power Supply Indicator
Solid Green: Detector Power on
b. Fault Alarm Indicator
Flashing Red: Fault Alarm Occurred, Solid Green: Alarm Restored
c. Zone Alarm Indicator
Solid Red: Zone Alarm Occurred, Solid Green: Alarm Restored
d. Formatting Indicator
Flashing Red: Formatting Successfully

2 Formatting
Loosen the screws on the rear cover to remove the cover. Hold the Reset button while powering the radar on until the red and green LED flashes.

3 Wiring
a. Alarm Output Wiring (Dry Contact Output)
a1: One Strong Current Output
a2: Three Weak Current Output
b. Alarm Input Wiring (Reserved)
c. Power Supply Wiring
d. Network Wiring (supports PoE)
e. Grounding

4 Installation
Before You Start:
- The recommended installation height is 2.5 m.
- Make sure that the mounting surface is strong enough to withstand at least 50N, as well as four times the weight of the device and the bracket.

1 Ceiling Mounting
1. Attach the mounting bracket on the detector with four supplied screws.
2. Loosen the screws on both side of the bracket.
3. Adjust the angle of the detector.
4. Tighten the screws on the both side of the bracket to complete the installation.

2 Pole Mounting
1. Attach the mounting bracket on the detector with four supplied screws.
2. Loosen the screws on both side of the bracket.
3. Adjust the angle of the detector.
4. Tighten the screws on the both side of the bracket to complete the installation.

5 Test
Test the radar after installation to make sure it is properly mounted.
Power on the radar and make sure there is no large object in the monitoring area. Make the detector access into the internet.
1. Download and install the iVMS-4200 client software.
2. Enter **Control Panel** - **Modules Customization**, select **Radar**, and click **OK**.
3. Enter Device Management page, select the radar in the Online Device List, click **Modify Netinfo**, change the port as 80, and click **Add to Client**. If the network of the radar is not the same as the PC's, click **Add** in the Device for Management list and enter the radar IP address in the pop-up window to add the radar.
Note: You should activate the device for the first usage. Select the device in the Online Device List, click Activate, create a password to activate the device.
Scan the QR code to get the *User Manual of Security Radar*.
4. In iVMS-4200 client software, enter **Control Panel - Radar**.
5. Upload Map: Select a map, enter the actual width (m) and height (m) of the map.
6. Expand the device group in the list on the left, and click and drag the detector onto the map.
7. Move along the edge of the required monitoring filed. Make sure the target sign (red arrow) is moving withhin the radar area (gray sector) shown on the added map. If the target sign is not within the sector, you need to adjust the mounting position or angle of the radar.

6 Set Up
1 Add Zone for the Detector
1. In iVMS-4200 client software, enter **Control Panel - Radar**.
2. Click **•••** - **Draw Zone Manually**, and click the mouse to draw a zone on the radar detection area. The system will pop up the zone settings window 3s after the drawing being completed.
3. Edit the zone parameters in the pop-up window.
4. Optional: You can also click **•••** - **Draw Zone Automatically**, and walk in the radar detection filed by a closed-loop path to draw a zone. For detailed, refer to the *User Manual of Security Radar.*
Note: Zones are not allowed to overlap.

2 Link the camera to the Zone
Before the operation, you need to click on the **Radar** page to disarm the radar.
1. In iVMS-4200 client software, select the radar on Device Manegement page and click **Remote Configuration** to enter the configuration page. You can also enter the device IP address in the web broswer to enter the configuration page.
2. Click **Smart Rule Settings** - **Camera Linkage Settings**.
3. Click **+** to add cameras to the radar.
4. Select a camera in the Camera IP Address List, and select a radar zone (or whole field) in the Zone Linkage list.
5. Add the camera to iVMS-4200 client software: In the client software, enter Device Management page, click **Add** in the Device for Management list, and enter the IP address, user name and password of the camera in the pop-up window.

3 Calibrate the Speed Dome
Before the operation, you need to click on the **Radar** page to disarm the radar, and link the speed dome to the zone.
a Initial Position settings
Before calibration, set the initial position of the speed dome to ensure the tracking accuracy.
1. Select a reference object about 50 m away from the speed dome. On the reference object, select a point whose altitude is the same as the speed dome's.
2. Enter the IP address of the speed dome in the web broswer to enter the web client. Adjust the PTZ buttons on the Live View page to make the reference object displayed in the image, and Click to zoom in the reference object.
3. Click , and click the reference point to middle the point in the frame.
4. Enter **Configuration - PTZ - Initial Position**, and click **Set** to set the initial position.
b Calibration
If the speed dome is installed together with the radar, select the calibration mode as One Point Calibration. Otherwise, set the calibration as Multipoint Calibration.
For one point calibration, you can refer to the following steps, and see user manual for multipoint calibration.
1. In iVMS-4200 client software, enter Radar page, click **•••** - **Master-Slave Tracking Settings**.
2. Double click the radar in the list on the left. Click the live view window of the speed dome needs to be calibrated, and click to maximum the window.
3. Select **One Point Calibration** as the calibration mode.
4. Click **Add** to add a calibration point.
5. Ask the calibration staff to move in the radar detection field. Click the track of the calibrate staff, and the color of the selected track will change from red to yellow.
6. Ask the calibration staff to stand at the calibration point within 20 to 40 m directly in front of the radar.
Note: The track disappears if the calibration staff is standing in place for more than 5 s. If the calibration staff does not move to the calibration point when the track disappears, you need to ask the calibration staff moves again, and click the track of the calibration staff to continue the calibration.
7. Click the added calibration point in the list on the right to update the radar position of the calibration staff.
8. Adjust the PTZ buttons in the live view window to update the PTZ position: Click **+/-** to scale the calibration staff to a fit size (The altitude of the calibration staff is about 2/3 of the altitude of the window), and adjust the PTZ to make the object align with the sign + at the center of the frame. (For precise alignment, click , and click on the center of the calibration staff.)
9. Click **Save**.

4 Enable Speed Dome Tracking
In iVMS-4200 client software, enter the Master-Slave Tracking Settings page, select the live view window of the speed dome, and Check **Enable Tracking**.
For detailed settings, Scan the QR code to get the User Manual of Security Radar.

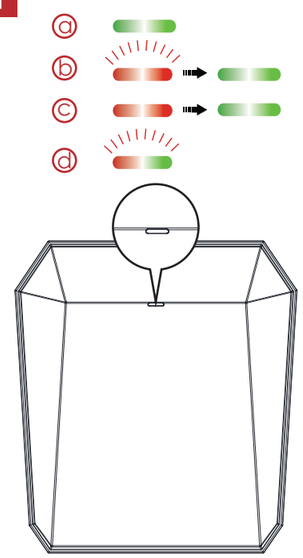
Specification

Model	DS-PR1-60
Detection Range	60 m
Horizontal Angle	100°
Detection Area	About 3000 ㎡
Max. Target Number	32
Velocity Range	-8.7 to 8.7 m/s
Range Measurement Accuracy	±0.75 m
Velocity Measurement Accuracy	±0.1 m/s
Angle Measurement Accuracy	±1°
Zone	8
Alarm Output	3-ch weak current output: 0.5 A/125 VAC,breakdown voltage: 1 KV 1-ch strong current output: 10 A/240 VAC,breakdown voltage: 2.5 KV

Netowrk Interface	1 RJ45 10M/100M self-adaptive, supports POE
Communication Protocol	Standard ISAPI protocol, NAL2300 protocol HTTP, DNS, NTP, TCP, UDP, DHCP, ARP, and SSH
Exception Detection	Cover and Wall tamper-proof, and blocking alarm
Power Interface	802.3at standard POE or 12 VDC The supplied power adapter is for 12 VDC power input.
Operation Temperature	-40 C° to 65 C°
Operation Humidity	10% to 90%
Dimension(W x H x D)	206×228×61 mm
IP Level	IP67
Weight	1.84 kg
Installation	Bracket installation Installation Height: 1.2 m to 4 m Recommended height range: 2.5 m Recommended vertical angle: 0°

Use only power supply listed below:
Manufacturer: Shenzhen HONOR Electronic Co., Ltd.
Model: ADS-26FSG-12 12024EPG

1



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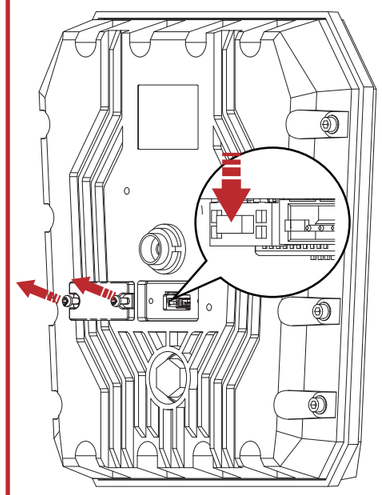

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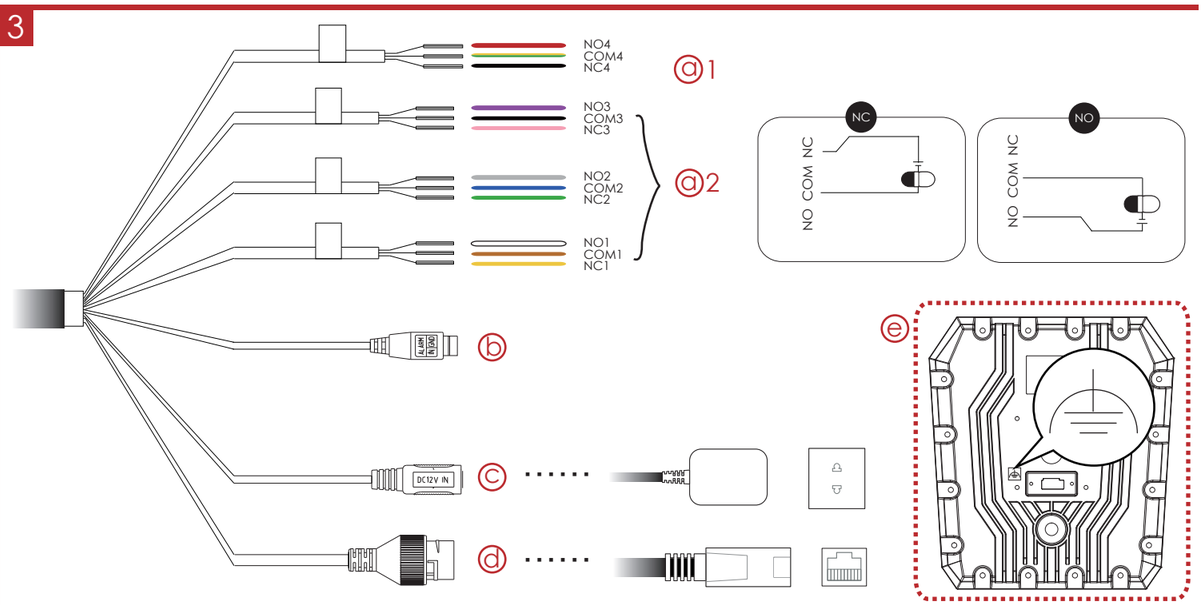

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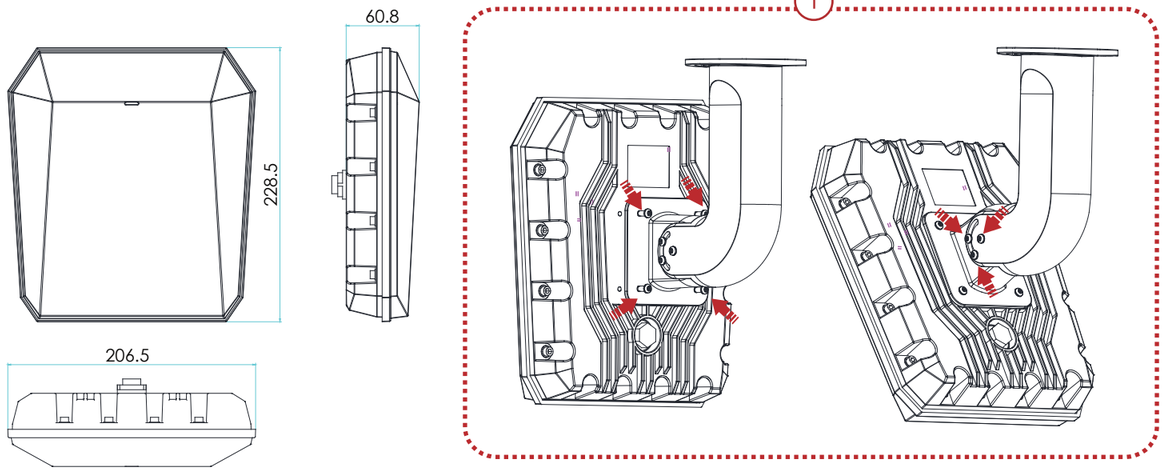

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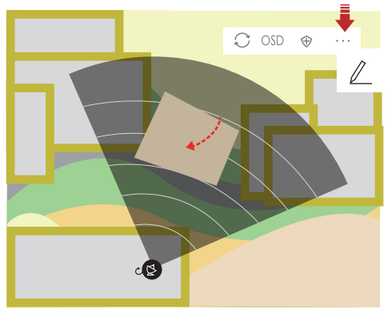

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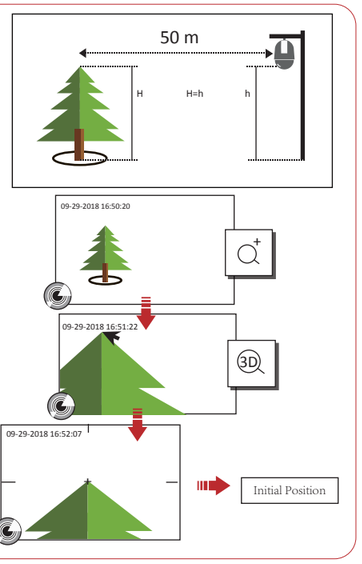

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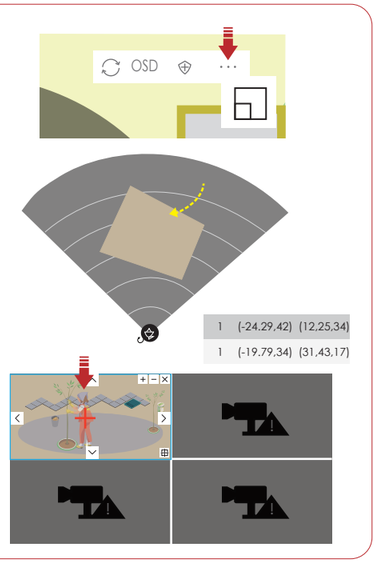

Product Information

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About this Manual
This Manual is applicable to the Security Radar.
The Manual includes instructions for using and managing the product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version in the company website (http://overseas.hikvision.com/en/).
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—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.
This equipment should be installed and operated with a minimum distance 20cm between the radiator and your body.
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Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
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

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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

This product operates in a European non-harmonised frequency band.

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