

DS-PRP100

Security Radar

HIKVISION

UD16651B

ENGLISH

Diagram References

1 Indicator

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
Red and Green LED Flashes 3 Times: 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 times.

3 Wiring

a. Alarm Output Wiring (4-Ch Weak Current Output)
b. Alarm Input Wiring (Reserved)
c. DC Power Supply Wiring
d. Ethernet (PoE Port) Wiring
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 50 N, 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 both sides 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 sides of the bracket.
3. Adjust the angle of the detector.
4. Tighten the screws on both sides 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. The radar and the PC that runs the software should be in the same IP segment.

1. Download and install the iVMS-4200 client software.
2. Enter Device Management page, and click **Online Device**.
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*.

3. Select the radar in the Online Device List. Click **Add**, set the port as 80, and check **Import to Group**. If the IP segment 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. You need to set the port as 80 and check **Import to Group**.

4. Upload Map: In iVMS-4200 client software, enter E-map, select a radar and click **Add map** to select a map.

5. Click **Edit Scale**, draw a path on the map and set the plotting scale.

6. Expand the device group in the list on the left, and drag the radar onto the map.

7. Move along the edge of the required monitoring field. Make sure the target sign (red arrow) is moving within 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 or Trigger Line for the Detector

1. In iVMS-4200 client software, enter E-map.
2. Click **Edit - RadarEdit - AddZone or AddAlarmLine**, and click to draw a zone or an alarm line on the radar detection area.
3. Right-click to finish drawing.
4. Set the parameters of the zone or alarm line in the pop-up window.

Zone: edit the zone parameters in the pop-up window. Click **OK** to finish the settings.

Alarm Line: set the rule of the line (left->right, left<-right, left<->right). Click **OK** to finish the settings.

Note: The alarm line is not allowed to be crossed.

2 Link the camera to the Zone

Before the operation, you need to click **RadarArm - AllRadarDisarm** on the **E-map** page or click the selected radar and click **disarm** to disarm the radar.

1. In iVMS-4200 client software, select the radar on Device Management page and click to enter the configuration page. You can also enter the device IP address in the web browser 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 the radar zone or the alarm line (or whole field) in the Zone Linkage list or the Alarm Line 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 disable the parking function, and set the initial position of the speed dome. You also need to disarm the radar.

1 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 browser 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.

2 Calibration

If the speed dome is installed together with the radar, select the calibration mode as Single Calibration. Otherwise, set the calibration as Multiple Calibration.

For single calibration, you can refer to the following steps, and see user manual for multiple calibration.

1. In iVMS-4200 client software, enter Device Management page, click **Group**. Click **Encoding Channels** in the group of the radar. Click **Import** and check cameras to link with the radar.

2. In iVMS-4200 client software, enter E-map page, click **Edit - RadarEdit - MasterSlaveEdit**.

3. Click the live view window, select the linked camera needs to be calibrated, and double click the live view window to maximum it.

4. Select **Single Calibration** as the calibration mode.

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 white.

6. Click **Add Cal** to add a calibration point.

7. 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 the place for more than 7 s. If the calibration staff does not move to the calibration point when the track disappears, you need to ask the calibration staff to move again, and click the track of the calibration staff to continue the calibration.

8. Click the added calibration point in the **Info** list to update the radar position of the calibration staff.

9. Adjust the PTZ buttons on the right of 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.

10. Select the live view window of the speed dome, and Check **Enable Tracking**.

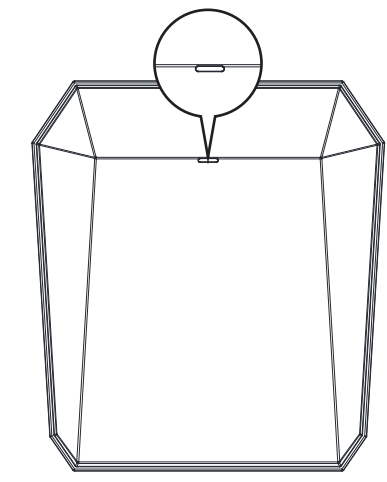
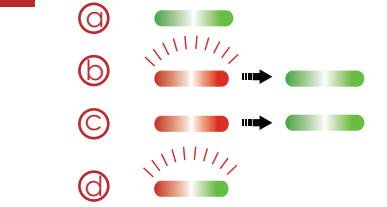
11. Click **Sure**.

For detailed settings, scan the QR code to get the *User Manual of Security Radar*.

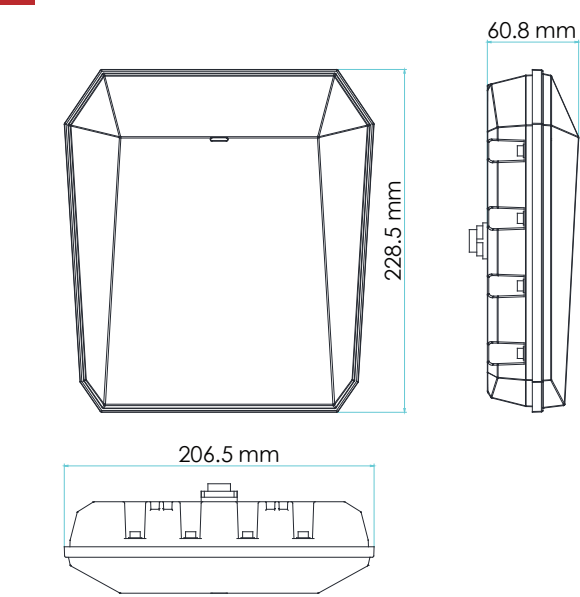
Specification

Model	DS-PRP100	Exception detection	Tampering alarm
Detection range	100 m		Moving alarm
Horizontal angle	10°	Power	DC 12 V
Distance measurement accuracy	1.2 m	Operation temperature	-40 °C to 65 °C
Max. target number	5	Operation humidity	10% to 90%
Velocity range	9 to -9 m/s	Dimension (W × H × D)	DC 12 V
Alarm line	4	IP level	IP67
Zone	8	Weight	1.73 kg
Relay output	4-ch weak current output: DC 5 V _C , 0.5 A/125 AVC, 300 mW	Installation	Bracket installation
Network interface	1 RJ45 10 M/100 M self-adaptive, supports POE		Installation height: 1.2m to 4m
Communication protocol	Standard ISAPI protocol, NAL2300 protocol, HTTP, DNS, NTP, TCP, UDP, DHCP, ARP and SSH		Recommended height: 2.5m

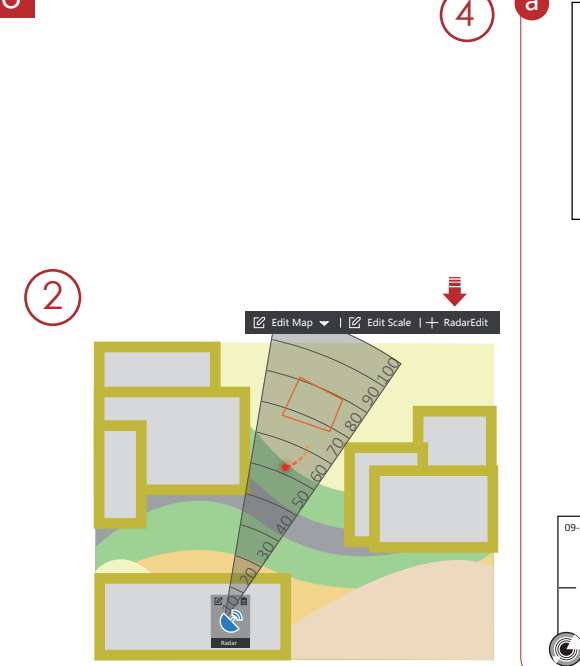
1



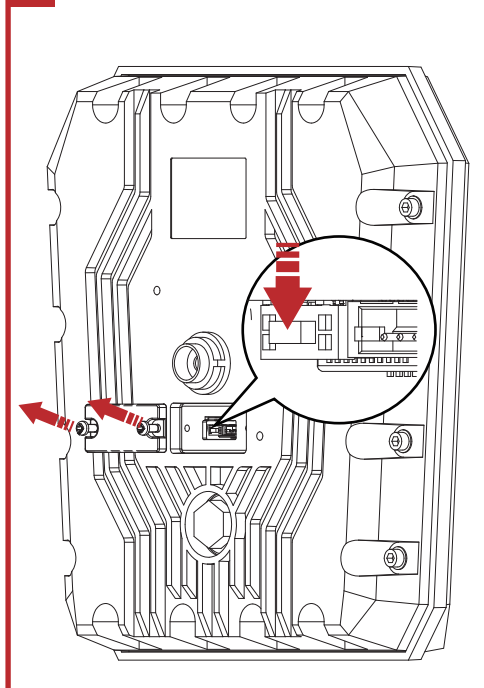
4



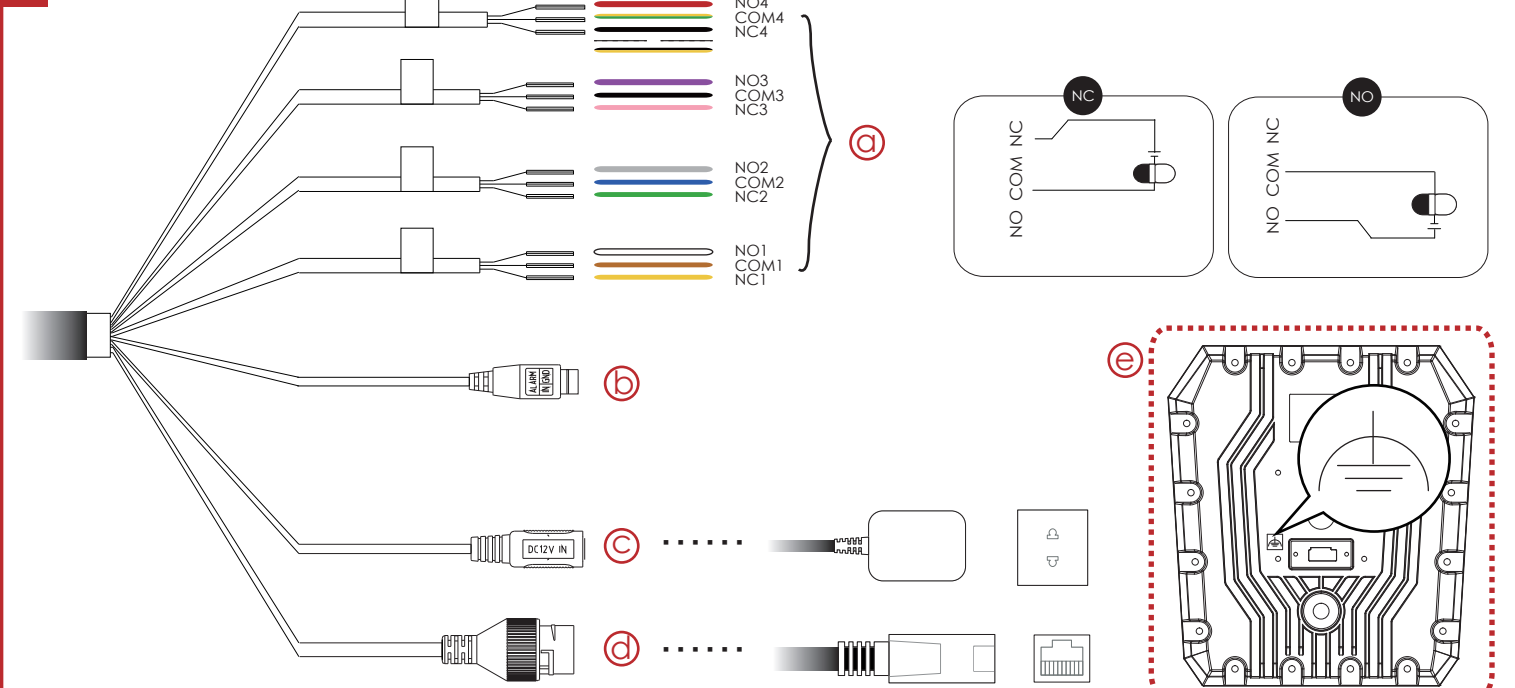
6



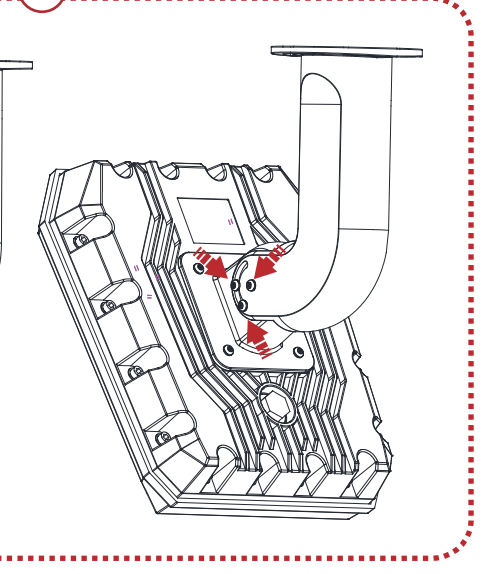
2



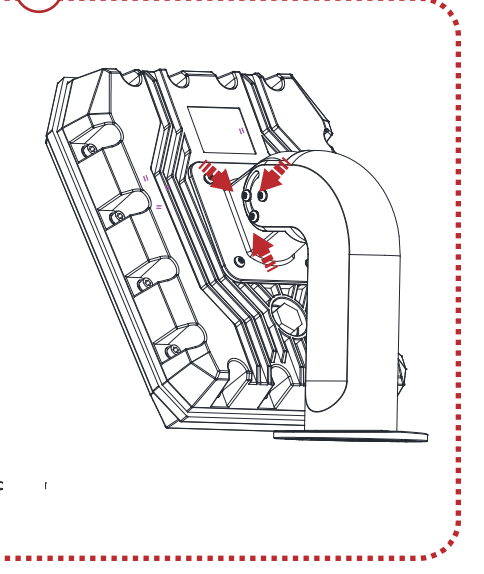
3



1



2



Product Information

COPYRIGHT ©2019 Hangzhou Hikvision Digital Technology Co., Ltd.
ALL RIGHTS RESERVED.
Any and all information, including, among others, wordings, pictures, graphs are the properties of Hangzhou Hikvision Digital Technology Co., Ltd. or its subsidiaries (hereinafter referred to be "Hikvision"). This user manual (hereinafter referred to be "the Manual") cannot be reproduced, changed, translated, or distributed, partially or wholly, by any means, without the prior written permission of Hikvision. Unless otherwise stipulated, Hikvision does not make any warranties, guarantees or representations, express or implied, regarding to the Manual.
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/>).
Please use this user manual under the guidance of professionals.
HIKVISION trademarks Acknowledgement and other Hikvision's trademarks and logos are the properties of Hikvision in various jurisdictions. Other trademarks and logos mentioned below are the properties of their respective owners.

CE 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 RE Directive 2014/53/EU, the EMC Directive 2014/30/EU, the LVD Directive 2014/35/EU, the RoHS Directive 2011/65/EU.
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
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
This product operates in a European non-harmonised frequency band.

ISED RSS Warning:
This device complies with Innovation, Science and Economic Development Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.
Le présent appareil est conforme aux CNR d'ISED applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
ISED RF exposure statement:
This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
Le rayonnement de la classe 1 respecte l'ISED fixaient un environnement non contrôlés. Installation et mise en œuvre de ce matériel devrait avec échangeur distance minimale entre 20 cm ton corps. Lanceurs ou ne peuvent pas coexister cette antenne ou capteurs avec d'autres.