

HUAWEI HoloSens Fixed Dome Software Defined Camera User Guide

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Fixed Dome Software-Defined Camera (Flat Dome)

Quick Start Guide

Default Login IP	User Name
192.168.0.120	admin



HoloSens Information Platform Technical Support



Issue: 02

The manual may come in different versions, which does not affect your usage.

L

Scan QR Code on Mobile Client to Quickly Add Devices

Note: Only D series cameras support connection to third-party apps. You can search for desired third-party apps through the app store or contact the local distributor to obtain the specific third-party app and its download address. The third party reserves the right to interpret the app.

Packing List and Qualification Card

Component	PC S	Component	PC S
Camera	1	Tapping screw	3
Drilling sticker	1	Quick Start Guid e	1
Expansion tube	3		

The components such as tools, terminals, and screws vary between camera m odels.



Additional Guides Available

To obtain the latest documents, including the Product Documentation and FOSS License Information , visit http://support.huawei.com/enterprise and enter the camera model to search for related documents. You can also log in to http://support.huawei.com/enterprise or scan the QR code using your mobile phone to download the Huawei Enterprise Technical Support app. Then start this app and choose **Products > Intelligent Vision** to obtain the latest documents.





This product has an environment friendly use period (EFUP) of 20 years. Some replaceable parts have t heir own EFUP labels. The EFUP is suitable only for products that work in conditions specified in the product manual.

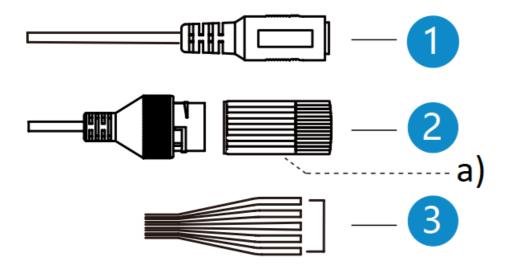


- The appearance and components vary depending on camera models. The figures in this document are for reference only.
- You can log in to http://holosens.e.huawei.com, search for the desire device model, and view the datasheet obtain the device specifications.
- Use the iClient tool to perform site survey planning, batch upgrade, batch parameter setting, and
 maintenance for cameras. To obtain the iClient tool, visit http://support.huawei.com/enterprise and enter
 iClient in the search box.

Specifications

Item	Description
Operating t emperature	For details about the temperature range, see the datasheet of the device model. Note: If the operating temperature is higher than 40°C, the illuminator cannot be enabled. If it is en abled, the camera may be damaged or its service life may be shortened.
Corrosion r esistance	Cameras that meet the Class C anti-corrosion requirements can be installed in areas 1500 meter s away from the seaside (far away from chemical industry or heavily polluted areas). Cameras that meet the Class D anti-corrosion requirements can be installed in areas within 1500 meters from the seashore or on offshore platforms.

Port Description



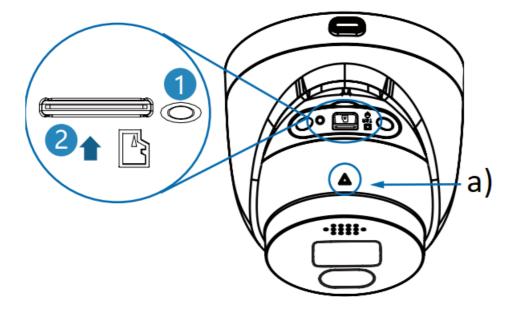
a) Waterproof connector kit



Obtain the waterproof connector kit from the accessory package if it is not connected to the network cable.

N O.	Item	Description
1	POWER	Power input port.
2	LAN	Network port.
3	ALARM_OUT	Alarm output port. A pair of ALARM_OUT and ALARM_OUT_GND form a single alarm out. The rated voltage of the alarm output device is less than or equal to 12 V DC, and the rated cu rrent is less than or equal to 50 mA. If the rated voltage or current is exceeded, you are advise d to connect a relay.
AL A R M		
U T_ G N D		
AL A R M _I Nn	Alarm input port. There may be multiple alarm input ports . For a given number of ports, n, they are numbered (for example: ALARM_IN0, ALARM_IN1,, ALARM_INn). Each one connects to the ALARM_IN_GND connection t o form a single alarm input.	
AL A R M I N G N D	Alarm input ground port.	

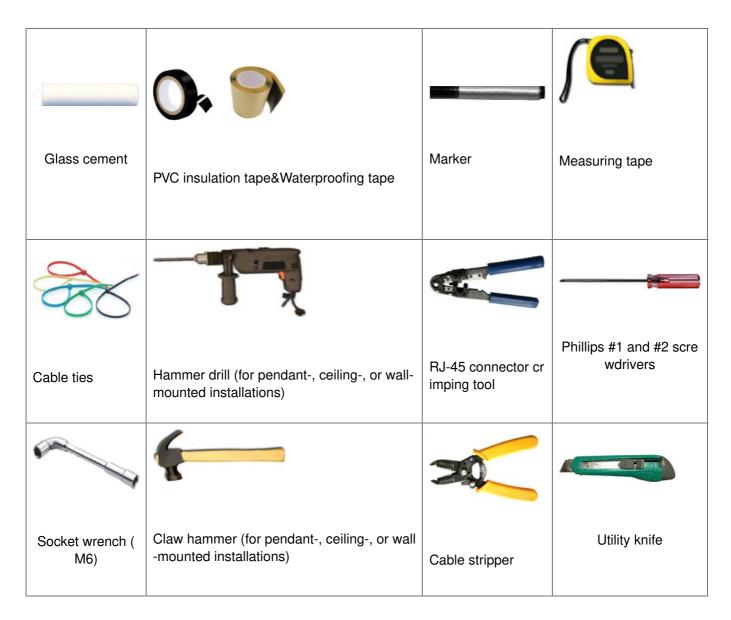
Reset Button and SD Card Slot



a) Indicates that this part of the camera must face upwards.

N O	Item	Description
1	Use the Phillips screwdriver to remove the came ra maintenance cover. Then, you can see the re set button and SD card slot.	Reset button. To restart the device, hold down the reset button (less than 3s). To restore the device to factory sett ings, hold down the reset button for at least 5s while the device is running. Restoring the factory configuration will result in the loss of the user's account information and s ome of the configuration information. Please exercise ca ution when performing this operation.
2	SD card slot. This device supports class 10 or hi gher microSD card. To replace a microSD card, the device must be powered off. Otherwise, system exception may occur. When a microSD card is used for the first time, log in to the web client of the device and format the microSD card. For details, see the Configuration Guide.	

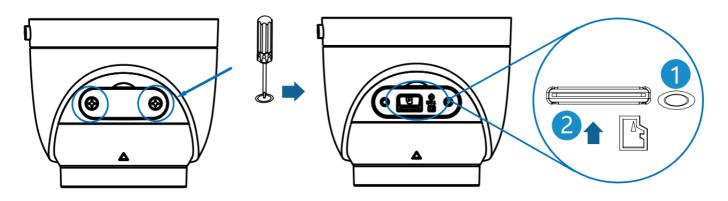
Required Tools



Device Installation

A. SD Card Installation

Use the Phillips screwdriver to remove the camera maintenance cover, and insert the SD card. After the SD card is installed, fasten the screws on the cover with a torque of 5 kgf·cm.

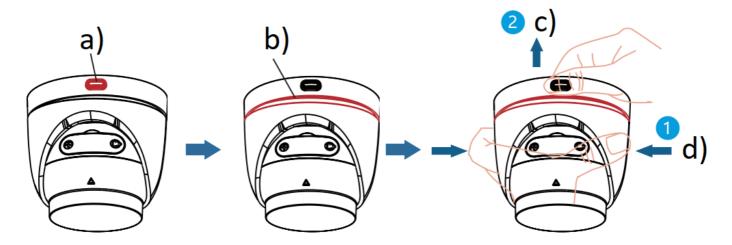


B. Ceiling-Mounted Installation



If the camera is to be installed on a thin surface, for example, aluminum panels, you are advised to take the following measures to secure the camera: Put a plank behind the surface, and then secure the camera using tapping screws. Alternatively, you can directly use bolts and nuts (not included in the packing list) to secure the camera.

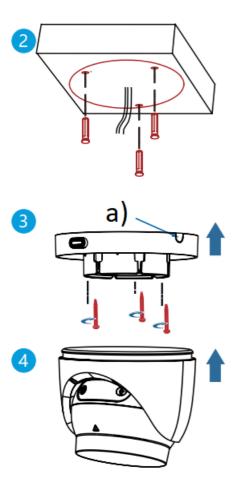
(1) Remove the camera base. As shown in the following figure, press the removal button, press the camera body with force, and push the base horizontally until the base is separated from the body.



- a) Press the button to open the buckle.
- b) Pull up the base to facilitate later removal.
- c) Push the base horizontally (in the rear direction).
- d) Press the body with force.
- (2) Determine the installation position.
- 1. Paste the drilling sticker in the camera installation position and determine the installation position of screws and pigtails according to the marks on the sticker.
- 2. Use a drill bit with a diameter of 6 mm to drill holes with a depth of about 55 mm in the specified positions marked by the sticker.
 - Use a claw hammer to drive the white plastic expansion tubes into the holes. (Optional: If the camera is to be installed on a thin surface, for example, aluminum panels, and you plan to use tapping screws to secure the camera, you can skip this step.)
- (3) Thread the cables to be connected to the pigtails through the camera base. The pigtails must be routed straightly to prevent the cables from getting entangled when the PTZ device rotates. Put the three expansion tubes through the holes on the camera base and tighten the screws.



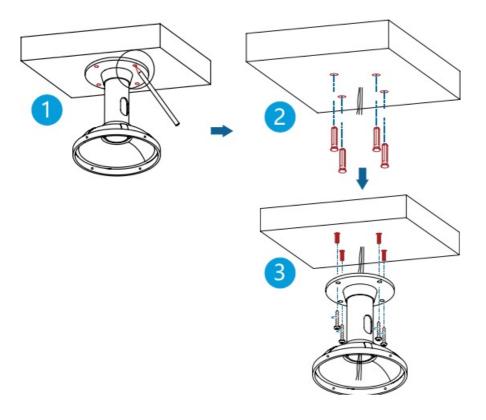
- If you need to lead cables from the side of the base, first open the cable outlet on the side of the base. Do not tighten the screws connecting the base to expansion tubes to ensure that the cables are smoothly led from the side of the base.
- Before fixing the camera, perform cable connection as well as cable waterproof and insulation treatment. For details, see "Cable Connection" and "Waterproofing and Insulation")
- (4) Install the camera on the ceiling mount.



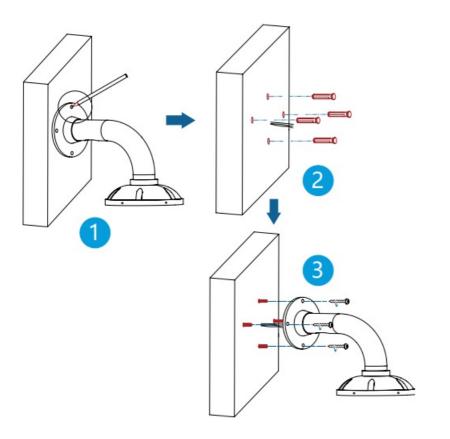
a) Cable outlet on the side of the base

C. Pendant-Mounted and Wall-Mounted Installation

- (1) Place the mount to the required installation location, use a marker to mark the screw installation positions, and drill holes in the marked positions.
- (2) Select a drill bit with a 8 mm diameter and drill four holes with a depth of 55 mm in the specified positions marked by the marker. Use a claw hammer to install expansion tubes into the holes.
- (3) Use a Phillips screwdriver to loosen the screws and remove the mounting plate from the pendant (or wall) mount. Thread the cables through the mount. Put the four expansion tubes through the four screw holes at the bottom of the pendant mount, and tighten the screws to affix the mount.



Pendant-Mounted Installation



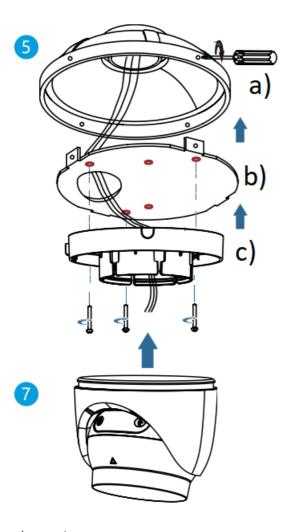
Wall-Mounted Installation

- (4) Remove the camera base. For details, see step 1 in "Ceiling-Mounted Installation".
- (5) Align the mounting holes on the camera base with the corresponding installation slots on the mounting plate of the pendant (or wall) mount, and fasten the camera base and the mounting plate together using the screws. Then, route the cables through the mounting plate and the camera base.

- **(6)** Connect the cables to the pigtails of the camera and perform insulation operations on the cables (see "Cable Connection" and "Waterproofing and Insulation").
- (7) Install the camera on the pendant (or wall) mount. Install the mounting plate.



This camera adopts the tri-axis design that allows horizontal rotation of 0° to 360°, vertical rotation of 0° to 75°, and chipset rotation of 0° to 360°, satisfying installation at different angles.



- a) mount
- b) mounting plate
- c) base
- D. Cable Connection

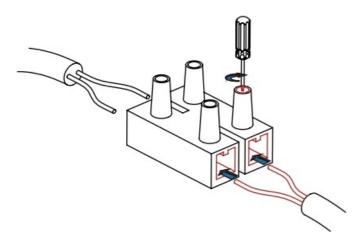


- In areas prone to lightning strikes, a lightning arrester must be installed and grounded.
- Strong and weak current cables must be kept at least 5 cm apart from each other. When connecting the cables to the device, take care to avoid connecting strong current cables to weak current ports or you will damage your device.

- Wrap all pigtail cables in insulated, waterproof, rubber tape to prevent short circuits or water damage. Cutting
 off the pigtail cables will void your warranty.
- If multiple cameras use the centralized power supply mode (excluding PoE), the connectivity of the two wires of each camera's power cable need to be controlled through the same switch. Otherwise, the power module may be burned.
- (1) Connect the power cable.

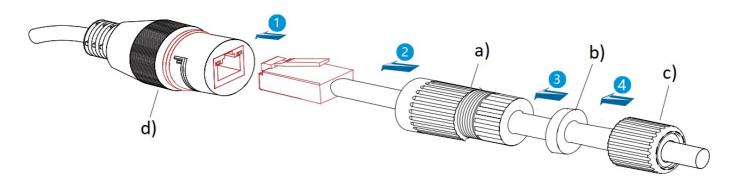


(2) Connect the alarm cable. It is recommended that the diameter of the alarm cable core range from 22 AWG to 28 AWG. (You need to prepare wiring terminals for connection. Alternatively, you can directly connect the bare wires.)



(3) Connect the network cable. Loosen the components 1, 2, and 3 of the waterproof connector kit in sequence, thread the network cable through the kit (If the RJ45 connector of the network cable has a jacket and cannot be threaded through the kit, remove the jacket. If the jacket cannot be removed, cut off the connector and install an RJ45 connector without the jacket.), and install the components in the sequence marked in the following figure. The waterproof connector of the network cable must be secured tightly, or they may come loose later.

Note: For some camera models, the waterproof connector kit is not installed on the network cable, so the waterproof connector kit does not need to be dissembled.



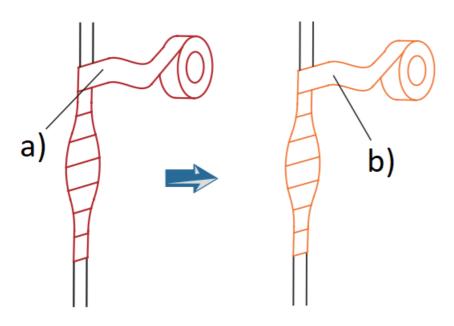
- a) Component 3
- b) Component 2
- c) Component 1
- d) O-ring for the waterproof connector(rubber ring)

E. Waterproofing and Insulation

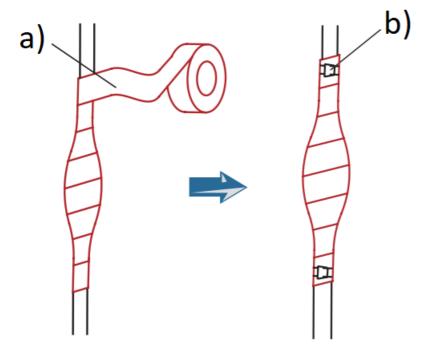


- Waterproof and insulate all cables including power cables, network cables, and unused pigtail cables.
- Before that, check the cabling and ensure that the camera runs normally to avoid reworkings.
- The waterproof tape must cover the cable bundle from the insulation sheath all the way to the cable conduit (for example, a PVC tube). The tape must be wrapped tightly and there must be no gaps in the coverage or water will leak in.
- (1) Insulate the cable connectors using insulation tape.

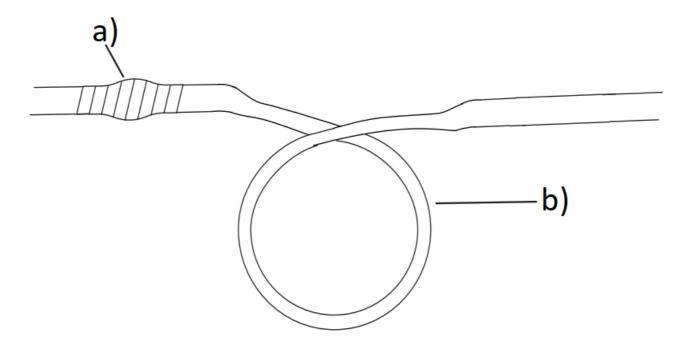
Wrap one layer only. Stretch the waterproof tape evenly to twice its original length. Then apply one layer of waterproof tape.



- a) Insulation tape
- b) Waterproof tape
- (2) Use the insulation tape to protect the waterproof tape layer. Then, use cable ties to secure the both ends.



- a) Insulation tape
- b) Cable tie
- (3) Cover the rest of the cabling in a conduit or with protective waterproof rubber tape. Make a drip loop as shown below to create an artificial lowest point of the cable.



- a) Protective hose covering or waterproof tape
- b) Drip loop

Installation Verification

Verifying the Installation

After the device installation, check the following items to ensure that the device is properly installed.

Check Items	Res ult
All screws are fully tightened.	Yes No
The camera is securely installed on the mount or wall.	Yes No
The ambient temperature meets the device specifications.	Yes No
Insulation and waterproof measures have been taken to protect cables installed in humid environment, a nd the drip loops are in correct positions.	Yes No
If the camera has a ground cable, ensure that the camera is grounded. If it is powered by a PoE switch, ensure that the PoE switch is also grounded.	Yes No
The protective film and fixing rubber strip have been removed from the lens and camera body respectivel y.	Yes No
The camera can power on properly.	Yes No
You can access the camera web client using the IP address you configured.	Yes No
On the camera web client, you can view live video from the camera.	Yes No
In night vision mode, the detection area can be viewed clearly.	Yes No

Data Plan

IP Address

Parameter	Description
IP address assignme nt method	 Automatic: The system automatically configures the IP address, subnet mask, gatew ay IP address, and DNS. Manual: You need to manually set the IP address, subnet mask, gateway IP address, and DNS.
IP address	 IP addresses starting with 127 are not valid. You must enter an IP address starting with another value from 1 to 223. If the camera is passively registered with the platform using the ONVIF or SDK, only the IP address needs to be configured.

Web Operations

(1) Open Internet Explorer, enter the camera IP address, and press Enter. The IP address can be set automatically via DHCP, or a static IP address can be used (default: 192.168.0.120). To directly log in to the camera using a computer, ensure that the computer is on the same network segment as the camera. When a DHCP server exists in the network, an IP address is automatically allocated to the camera.



- Supported browsers: Internet Explorer 10-11, Google Chrome 38 and later versions, and Mozilla Firefox 35-51.
 Google Chrome 45 and later versions require installation of Internet Explorer Tab plug-in.
- When using HTTPS to access a camera, you must enable TLS 1.1 or TLS 1.2. Otherwise, the camera web
 page cannot be displayed.
- Please open the web browser on your PC as the administrator.
- (2) Enter the user name (admin) and password. For the first login, set the password as prompted.
- (3) Click Log In.

Network Settings

- (1) Log in to the web client as the admin user.
- (2) Choose **Settings** > **Network**.

Set the network parameters as planned. For details about how to set basic network parameters, see the Configuration Guide.

FAQ

Q: After you enter the SDC IP address in the address box and press Enter, the Internet Explorer displays "There is a problem with this website's security certificate."

A: Click "Continue to this website (not recommended)" to continue browsing this website. Then install the root certificate or upload your own certificate. For details, see **Configuration Guide**.

Q: After the root certificate has been downloaded and installed, Internet Explorer still displays "There is a problem with this website's security certificate" and after I click "Continue to this website (not recommended)", the address bar still displays "certificate error".

A: Choose Settings > System Configuration > Configuration Management, upload a valid certificate and restart the browser.



Warranty Card

Thank you for choosing products of Huawei Technologies Co., Ltd. (Huawei). To be entitled for warranty service for the product, please read the following warranty statements carefully.

1. Warranty Period

Unless otherwise stated specifically by Huawei, the following periods apply:

You are entitled a free warranty service of at least 12 months for the camera you purchased from Huawei. The specific warranty duration is subject to the sales contract.

The start date of the warranty:

The warranty starts on the 90th day after the date of the product shipment from Huawei, or the date of receiving service request, whichever is earlier.

Notes:

- 1. If there is any conflict with contract terms and conditions, the contract terms and conditions shall prevail.
- 2. When you purchase a product from Huawei, please confirm the date when the product will be shipped from Huawei, and check other warranty-related information.
- 3. For expansion and replacement parts, you are entitled to either of the following warranties (whichever is longer):
 - (1) A 90-day warranty starting from the date the replacement parts are shipped
 - (2) The remaining warranty of the original equipment
- 4. Warranty service is provided for the lithium battery modules for the S series switches, but the terms related to hardware warranty service response time in the Enterprise Warranty Policy do not apply to the lithium battery modules.

2. Service Guidelines

This warranty card entitles you to free warranty service within the warranty period.

Technical Support: Visit http://e.huawei.com, click Contact Us at the upper right corner of the page, and select your country to obtain contact information of Huawei local office.

TAC Support: Visit http://e.huawei.com and choose Contact Us > Service Hotline to find the service hotline available in your country.

Complete the form below and keep for ready reference
Product supplier:
Supplier telephone number:
Product serial number:

Appendix

Security Precautions

Carefully read and strictly comply with the following instructions. Pay special attention to the alarm details in this manual:

- After the camera is unpacked, please install and power it on within 24 hours. Do not install the camera in rainy or windy and dusty days to prevent water or sand from getting into the device.
- The power adapter to be used by the device must meet the input voltage and current requirements described on the device label.
- In areas prone to lightning strikes, the surge protector must be installed and grounded.
- CAUTION If a battery is replaced by an incorrect type, the batter may explode. Dispose of used batteries
 according to the instructions.
- This is a class A product, operation in a residential environment this product may cause radio interference in which case the user may be required to take adequate measures.
- Use a soft dry cloth when cleaning the camera body. Do not use strong and abrasive alkaline cleaner or volatile solvent such as alcohol, benzene, or thinner.

- Keep the device away from water or any other liquids. Take proper waterproofing measures.
- Keep the device away from heat sources, fire sources (such as heating apparatus or candles), and strong magnetic fields (for example, high-voltage power distribution cabinet).
- Avoid any unauthorized modifications on the design of the structure, security, or performance.
- Installation and maintenance must be performed by professional technical engineers or system installation engineers.
- If the installation environment ever exceeds 50, install the product in an area accessible only to professional personnel.
- Use product-attached auxiliaries and recommended fittings.
- Do not lift the pigtails when moving the device.
- Comply with related laws and regulations, and respect legal rights of others when using this device. If a camera is installed in a public place, post a clearly visible notice stating, "You have entered an electronic surveillance area."
- Do not ingest battery, Chemical Burn Hazard, This product contains a coin / button cell battery. If the coin / button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.
 Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

Do not disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion. Do not leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas. Do not expose the battery to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

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Documents / Resources



<u>HUAWEI HoloSens Fixed Dome Software Defined Camera</u> [pdf] User Guide HoloSens, Fixed Dome Software Defined Camera, HoloSens Fixed Dome Software Defined Camera

References

- <u>Muawei Enterprise: New Value Together</u>
- **index**
- support.huawei.com/
- <u>Mayori Enterprise Product & Service Support Huawei</u>

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