



WWW.GVISION-USA.COM

GU1FA7201

USER'S MANUAL

720 DEGREE IP CAMERA

GVISION USA, INC

30398 Esperanza, Rancho Santa Margarita CA 92688 / 949.586.3338 / info@gvision-usa.com

Important Information



WARNING



TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. ALSO, DO NOT USE THIS UNIT'S POLARIZED PLUG WITH AN EXTENSION CORD RECEPTACLE OR OTHER OUTLETS UNLESS THE PRONGS CAN BE FULLY INSERTED.

REFRAIN FROM OPENING THE CABINET AS THERE ARE HIGH VOLTAGE COMPONENTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



CAUTION



TO REDUCE THE RISK OF ELECTRIC SHOCK, MAKE SURE POWER CORD IS UNPLUGGED FROM WALL SOCKET. TO FULLY DISENGAGE THE POWER TO THE UNIT, PLEASE DISCONNECT THE POWER CORD FROM THE AC OUTLET. DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol warns user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any part inside this unit.



This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

CAUTION: Please use the power cord provided with this display in accordance with the table below. If a power cord is not supplied with this equipment, please contact GVISION. For all other cases, please use the power cord with the plug style that matches the power socket where the monitor is located. The compatible power cord corresponds to the AC voltage of the power outlet and has been approved by, and complies with, the safety standards in the country of purchase.

**When operating this monitor with its AC 125-240V power supply, use a power supply cord that matches the power supply voltage of the AC power outlet being used.*

Care and Cleaning

- Always unplug your monitor from the wall outlet before cleaning. Clean the LCD monitor surface with a lint-free, non-abrasive cloth. Avoid using any liquid, aerosol or glass cleaners.
- Slots and openings on the back or top of the cabinet are for ventilation. They must not be blocked or covered. Your monitor should never be placed near or over a radiator or heat source, or in a built-in installation unless proper ventilation is provided.
- Never push objects or spill liquid of any kind into this product.

Safety Precautions / Maintenance

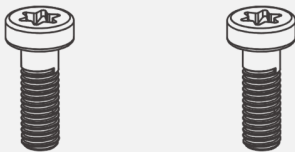
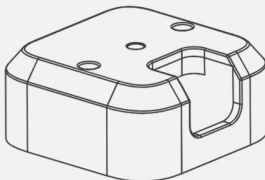
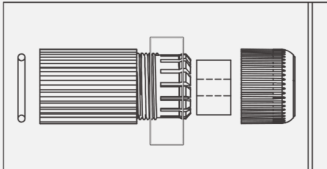
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the monitor combination to avoid injury from tip-over.
- Unplug monitor during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the monitor has been exposed to rain or moisture, does not operate normally, or has been dropped.
- Do not press strongly upon the panel with a hand or a sharp object such as a nail, pencil, or pen, or make a scratch on it.
- Do not stick metal objects or any other conductive material into the power cord. Do not touch the end of the power cord while it is plugged in.
- Keep the packing anti-moisture material or vinyl packing out of the reach of children. Anti-moisture material is harmful if swallowed. If swallowed, induce vomiting and go to the nearest hospital. Additionally, vinyl packing can cause suffocation. Keep it out of the reach of children.
- Concerning the Power Cord (Can differ by country): Check the specification page of this owner's manual to be certain concerning current requirements. Do not connect too many devices to the same AC power outlet as this could result in fire or electric shock. Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your device, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the device, and have the cord replaced with an exact replacement part by an authorized servicer. Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the device. Do not move the monitor with the power cord plugged in. Do not use a damaged or loose power cord. Be sure to grasp the plug when unplugging the power cord. Do not pull on the power cord to unplug the monitor.
- To reduce the risk of fire or electrical shock, do not expose this product to rain, moisture or other liquids. Do not touch the screen with wet hands. Do not install this product near flammable objects such as gasoline or candles, or expose the TV to direct air conditioning.
- Do not use high voltage electrical equipment near the TV (e.g., a bug zapper). This may result in product malfunction.
- Do not expose to dripping or splashing and do not place objects filled with liquids, such as vases, cups, etc. on or over the apparatus (e.g., on shelves above the unit).
- Do not attempt to modify this product in any way without written authorization from GVISION. Unauthorized modification could void the user's authority to operate this product.
- **Moving:** Make sure the product is turned off, unplugged, and all cables have been removed.
- If you smell smoke or other odors coming from the screen, unplug the power cord and contact an authorized service center.
- If water or another substance enters the product (like an AC adapter, power cord, or unit), disconnect the power cord and contact the service center immediately. Otherwise, this may result in fire or electric shock.

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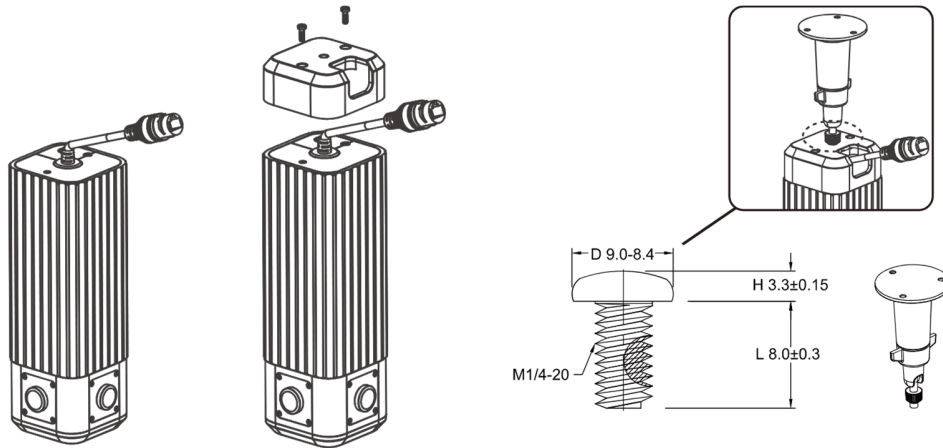
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1 Accessory & Installation

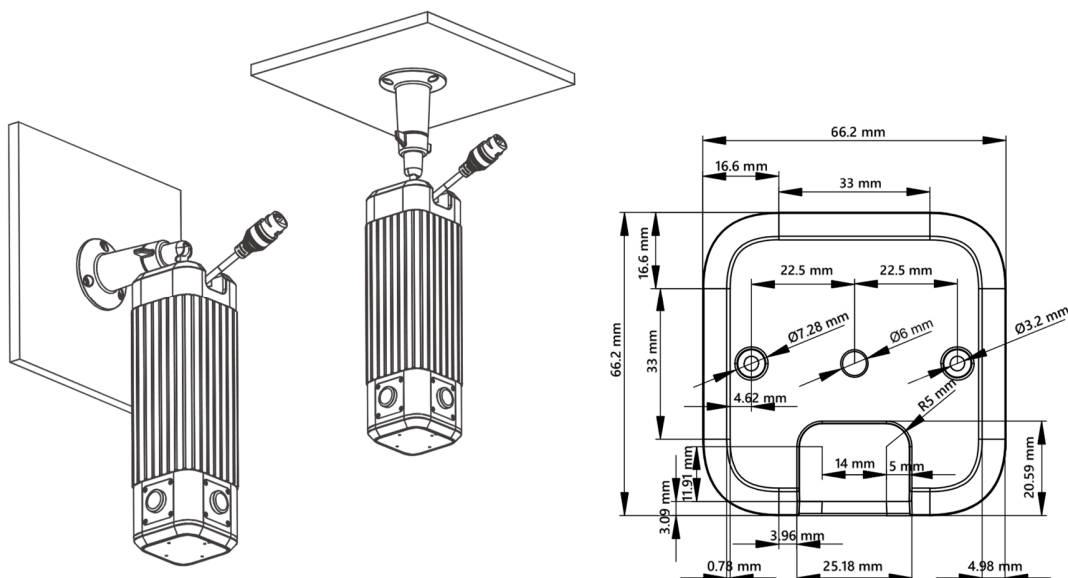
Accessory

Quantity	Item	
2 PCS	Philips M3x2 L: 7 +/-0.45mm / W: 2.88 ~ 2.96mm	
1 PCS	Pedestal	
1 PCS	POE Waterproof Caps	

Installation



1. Only qualified personnel are authorized to install, replace, or service the equipment.
2. Installation must be performed by licensed professional.
3. To protect the unit from intentional or unintentional damage, it is recommended to install it in a secure area that is inaccessible to individuals not employed by the operator.
4. If the unit is installed in a public area, it is recommended to mount it at a height of at least 3.5 meters to prevent access by pedestrians.

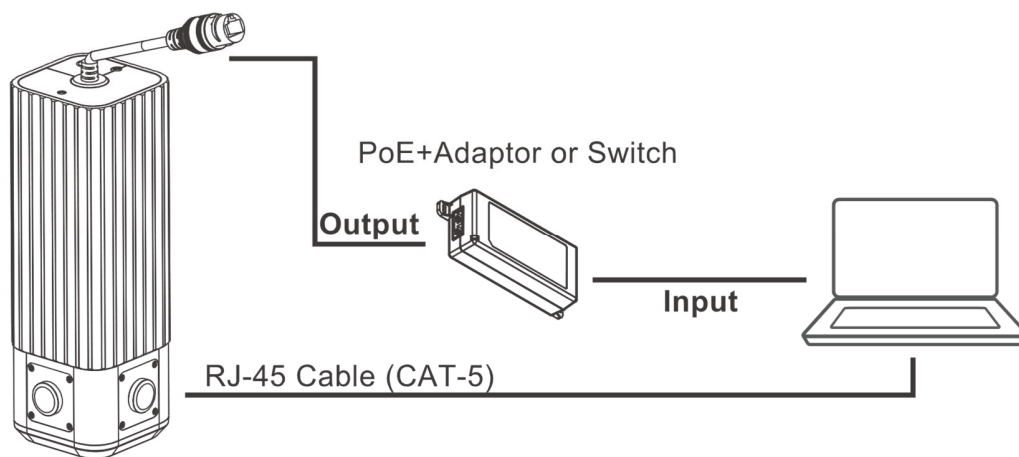


2 Camera Setup

Property	IEEE 802.3at Type 2
Max. power at powered device	25.50 Watts
Max. power delivered at Switch watts	30.00 Watts
Voltage range at PD	42.5 ~ 57.0 V
Power management	Class 4 at initial connection 0.1 Watt steps negotiated continuously
Cabling	CAT-5 (above level)

**** This product is intended to be powered by a Listed PoE-compliant source rated at a minimum of 48VDC, 0.5A, with a maximum ambient temperature (Tma) of 50°C. For assistance in selecting or purchasing a suitable power source, please contact a GVision technician at rma@gvision-usa.com.**

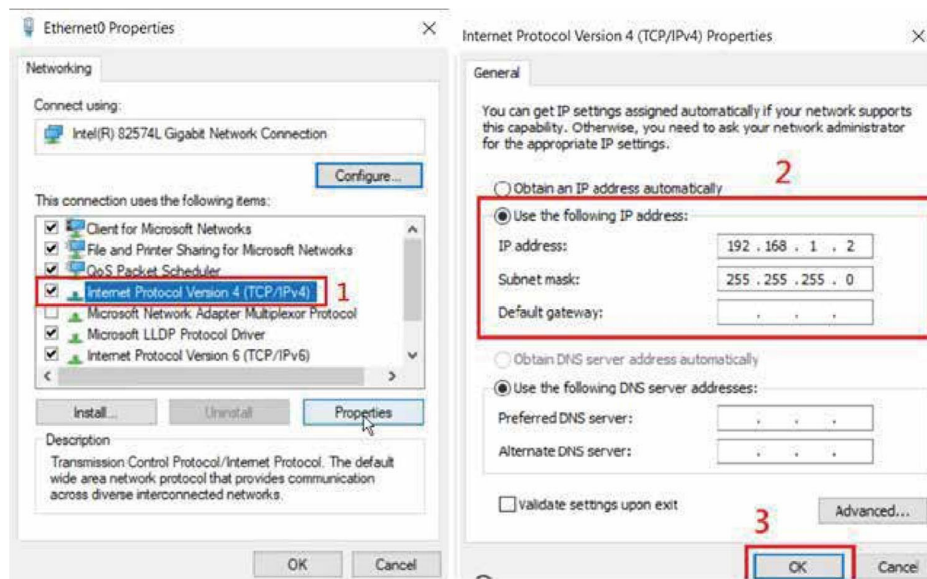
Warning: Protective earthing is used as safeguard “Power cord connected to a socket-outlet with earthing connection”



System Requirement		
OS	Windows 10 / 11	
CPU	Intel Core i7	
Memory	16GB	
GPU	Standalone	

3 Getting Started

1. Power on the device using a PoE (Power Over Ethernet).
2. Setting the computer IP is the same network segment as IP-cam 360



3. Ping IP-Cam 360 to confirm the communication is ok (Use command: ping **192.168.1.100** at command line)

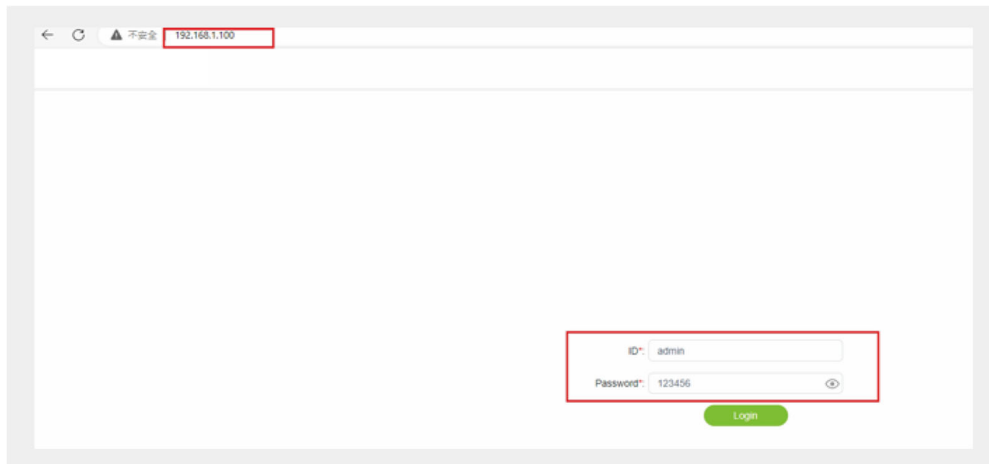
```
cmd Command Prompt
Microsoft Windows [Version 10.0.19045.2965]
(c) Microsoft Corporation. All rights reserved.

C:\Users\833226>ping 192.168.1.100

Pinging 192.168.1.100 with 32 bytes of data:
Reply from 192.168.1.100: bytes=32 time<1ms TTL=64
Reply from 192.168.1.100: bytes=32 time<1ms TTL=64
Reply from 192.168.1.100: bytes=32 time<1ms TTL=64
Reply from 192.168.1.100: bytes=32 time<1ms TTL=64

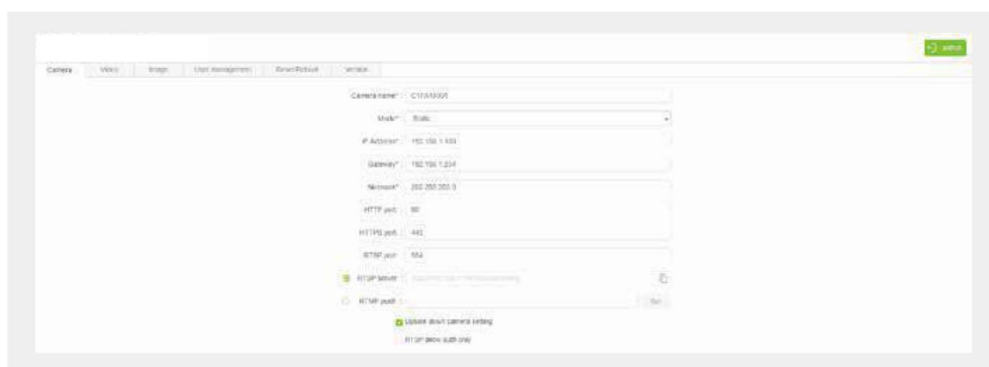
Ping statistics for 192.168.1.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms
```


4. Log in Web: <http://192.168.1.100>
ID: admin
Password: 123456

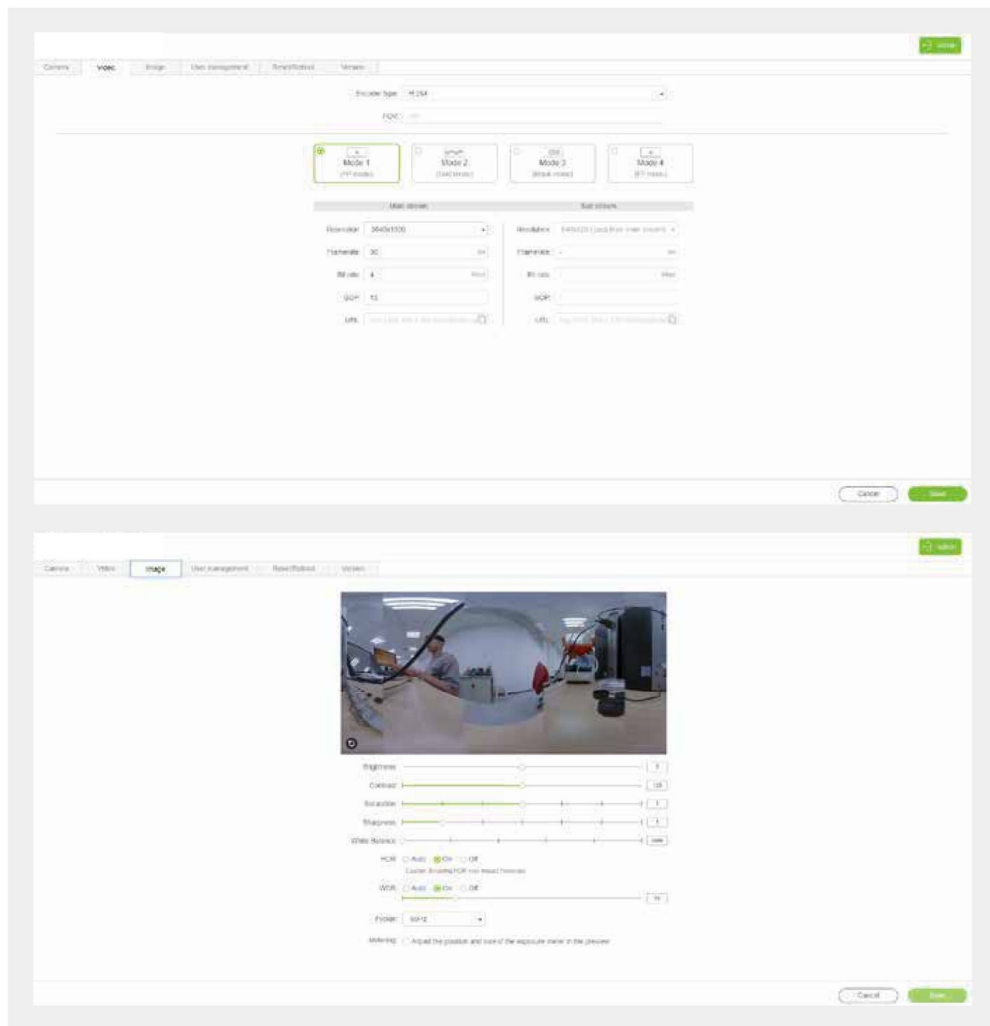


Detail Setting

1. **Connected Setting:** If not necessary, please don't change these settings.



2. Video and Image: You can adjust these values according to your equipment. Remember to click the save button after change the settings.



3. User Management: Create, delete, modify the Login account.

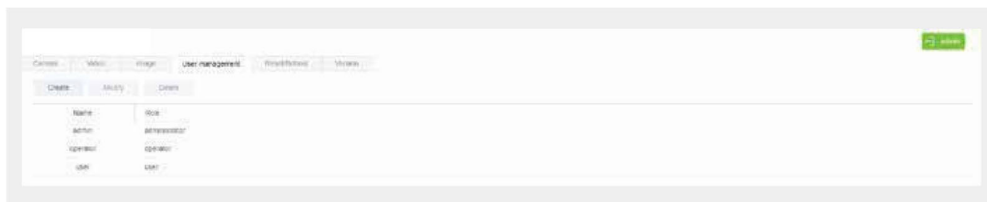
User Management: Create, delete, modify the Login account.

[Quantity] Maximum limit: 6 account (default 3 account: admin, operator, user) [Default]
The initial 3 account can not be deleted but their passwords can be modified.

[Create] Customizable: Username, Password, Role (level).

[Modify] Editable: Password, Role (level): Excluding the 3 default accounts.

[Delete] Unable to delete the default 3 accounts



Create:

The screenshot shows the 'Create a new user' dialog box. The background interface includes tabs for Camera, Video, Image, User management, and Real-time. Under 'User management', there are buttons for Create, Modify, and Delete, and a table with columns Name and Role. The table lists: admin (administrator), operator (operator), user (user), and test_user (administrator). The dialog box has the following fields:

- Name: test_user (10 / 32)
- Password: 654321 (8 / 32)
- Confirm Password: 654321
- Role: administrator (dropdown menu)

A green 'Save' button is at the bottom right of the dialog.

Modify:

The screenshot shows the 'Modify user' dialog box. The background interface is the same as the 'Create' dialog. The dialog box has the following fields:

- Name: test_user (10 / 32)
- Password: testtest (8 / 32)
- Confirm Password: testtest
- Role: administrator (dropdown menu with options: administrator, operator, user)

A green 'Save' button is at the bottom right of the dialog.

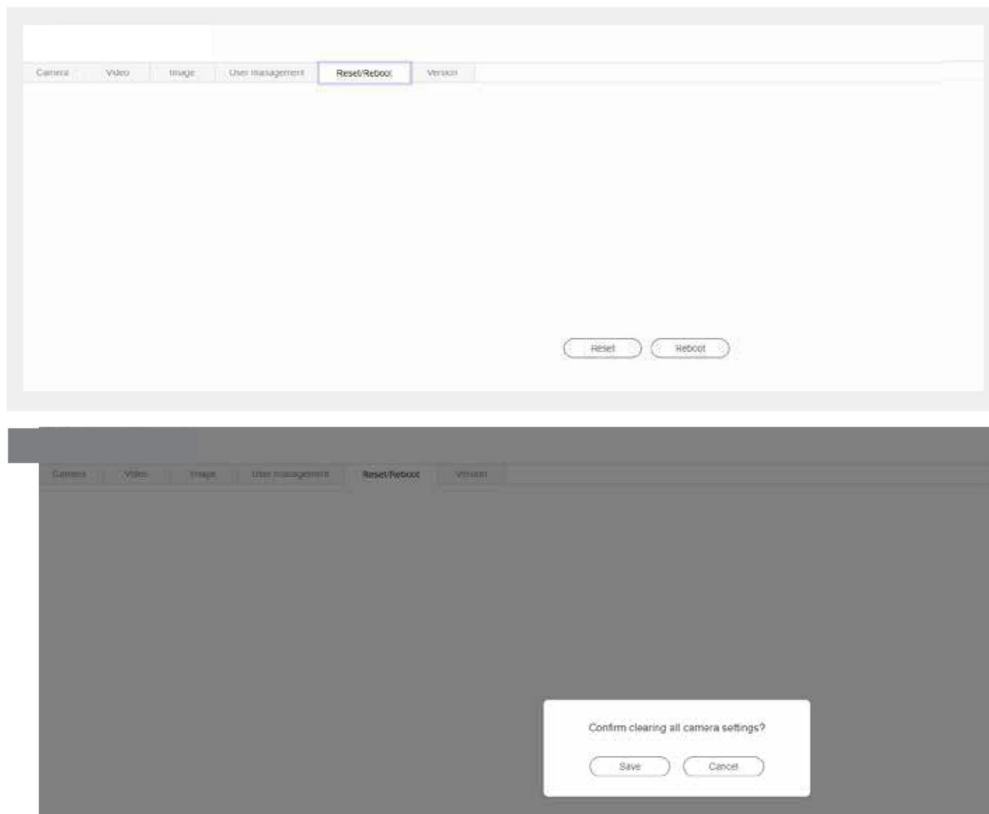
Delete:

The screenshot shows the 'Delete user' dialog box. The background interface is the same as the previous dialogs. The dialog box contains the text: 'Are you sure to delete the user?'. At the bottom, there are two buttons: 'Cancel' and 'Yes'.

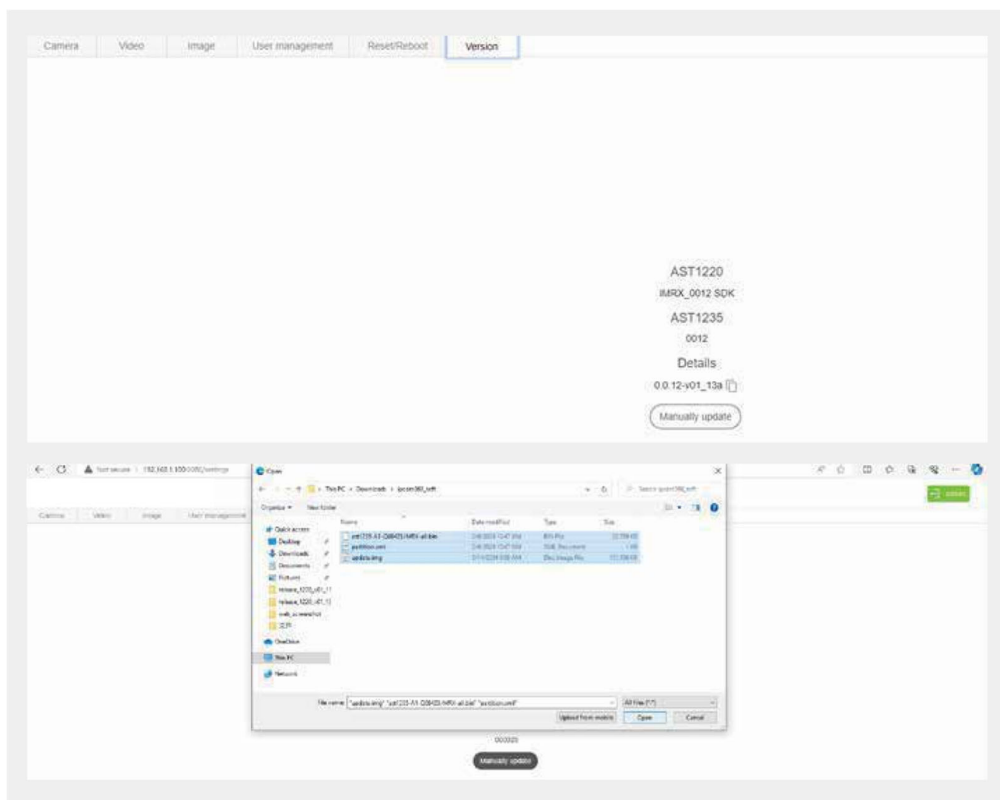
Log In through the created account.

The screenshot displays the Gvision web interface. The top section is a login form with fields for 'Email/Username' and 'Password', and a 'Login' button. Below the login form is a navigation bar with tabs: 'Camera', 'Video', 'Image', 'User management', 'Reset/Logout', and 'Version'. The 'Camera' tab is selected, showing a configuration page for a camera named 'CFA18001'. The configuration fields include: 'Model' (CFA18001), 'IP Address' (192.168.1.101), 'Gateway' (192.168.1.254), 'Netmask' (255.255.255.0), 'HTTP port' (80), 'HTTPS port' (843), 'RTSP port' (554), 'RTSP server' (rtsp://192.168.1.101:554/rtsp/), and 'RTSP user' (admin). A green status indicator shows the camera is online. A red box highlights the 'Add Camera' button in the top right corner of the configuration page.

4. **Reset/Reboot:** If you want to restore the manufacturer status, please click reset button.



5. **Version:** Display IP-Cam 360 version
6. **Manually Updated:** Upload three files which are provided from the vendor.
7. **Three files:** “update.img”, “partition.xml”, and “ast1235-A1-Q08423.IMRX-all.bin”.

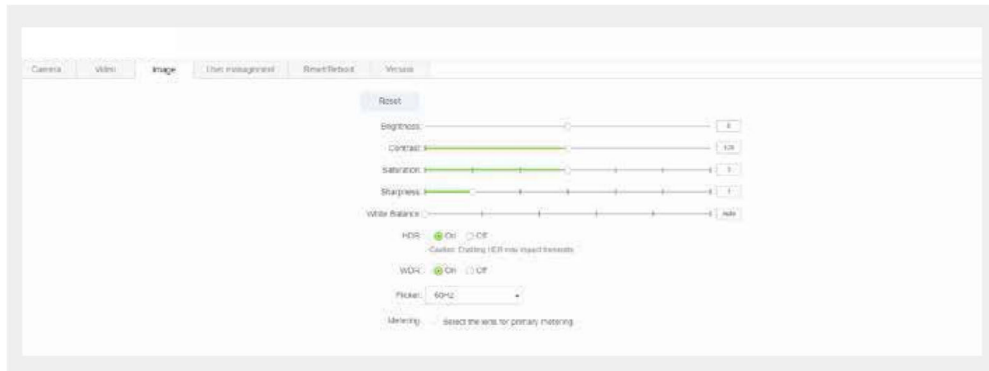


IP-Cam 360 LED Status

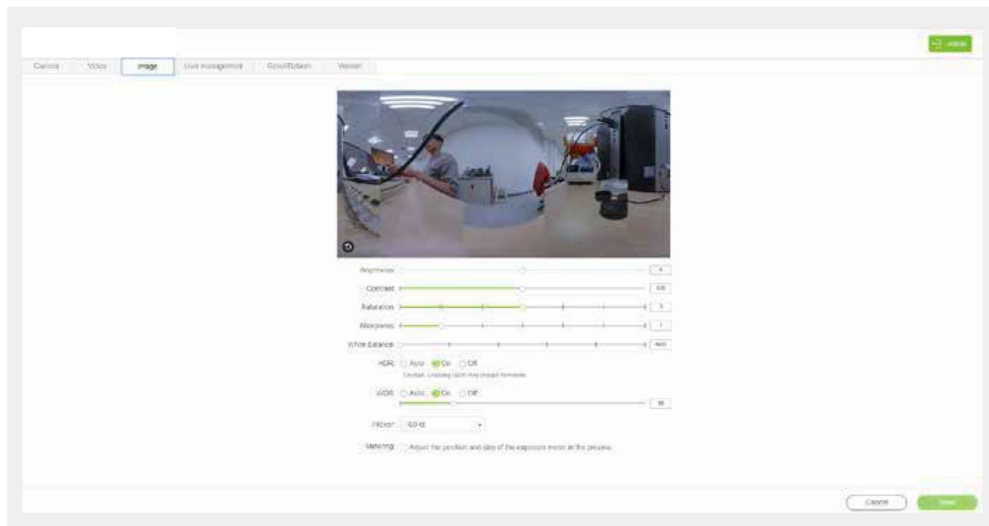
Normal	Indicator	Behavior
	Red	Booting
	Blue	Operating
Error	Red blink every 0.5 sec.	Abnormal
Recovery	Red blink every 1 sec.	1220 firmware upgrade
	Pink blink every 1 sec.	1235 firmware upgrade

4 Camera Webpage Configuration

- Enter the web page.



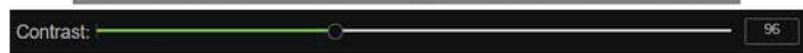
- Users can fine-tune image settings according the scene.
- The open adjustment items are as follow;



- Tuning instruction
- Brightness

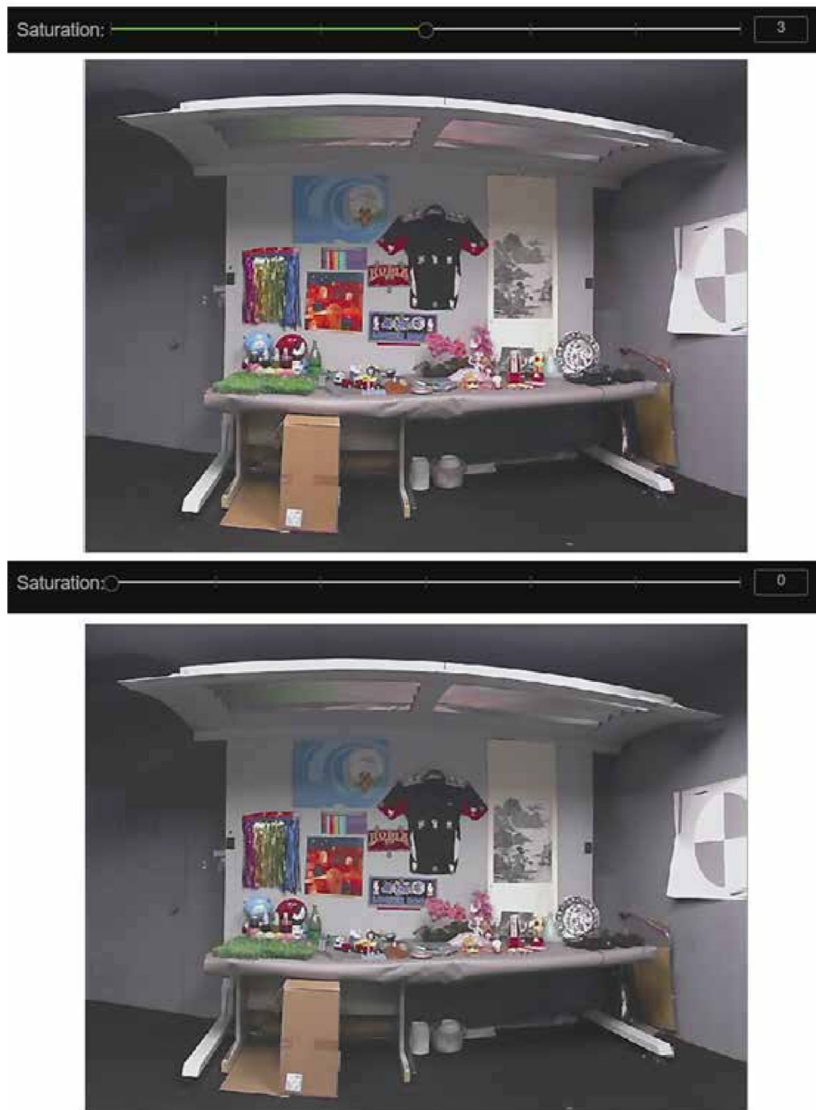


- **Contrast**



- **Saturation**

Saturation corresponding to the vividness of the image color. User can adjust it according to their subjective needs.



- **Sharpness**

Adjusted the sharpness of edges in the image. Note setting 0 (Enhance off).



- **HDR**

For high dynamic scenes, it is highly recommended to turn on HDR. Avoid overexposure and underexposure in images.



- **White Balance**

Manual white balance can change the color tone, and users can adjust their preferences.

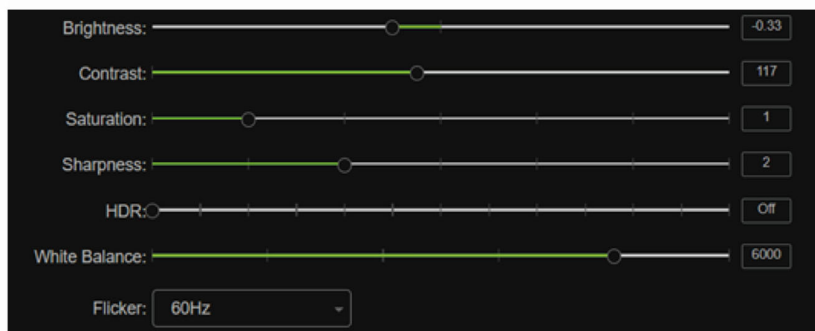


- Appendix: Web UI adjustment result

Default



Tuning



5 OnVif Profile S

OnVif Profile S

It is design for IP-based basic streaming video systems. The camera can connect to NVR or VMS which supports OnVif protocol.

6 Troubleshooting

Troubleshooting

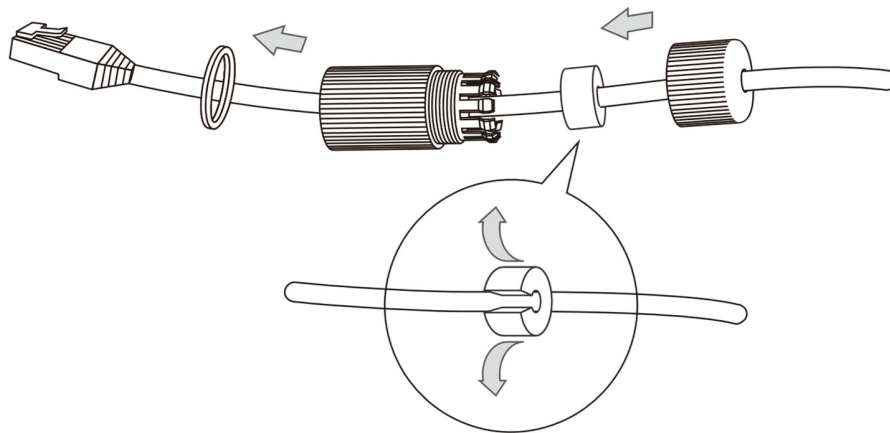
Trigger the recovery mechanism method	
Answer: When the system could not boot-up normally, it could follow steps to trigger recovery mechanism	
Step 1	Must press button before Power-On
Step 2	Keep pressed button over 5 seconds while the camera Power-On -> Trigger recovery (Red led flash first and then Pink led flash)

7 Installing the waterproof Cable Gland

Installing the Cable Gland

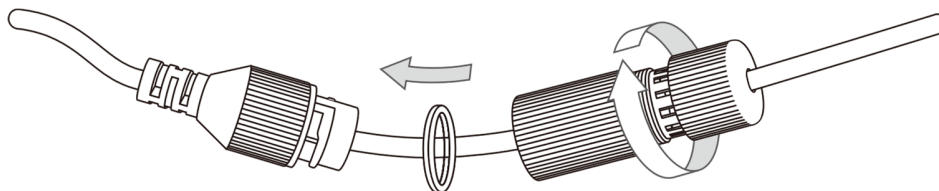
Step 1:

Pass an ethernet cable through the waterproof cable gland components, and through the rubber seal as shown below. Connect the ethernet cable to the camera's RJ45 connector.



Step 2:

Install the seal ring and tighten the waterproof component.



Compatibility:

Supported cable types: Round cables with outer diameter (OD) between 4.5mm and 6.0mm.

Not supported cable: Flat cables or braided mesh cables.

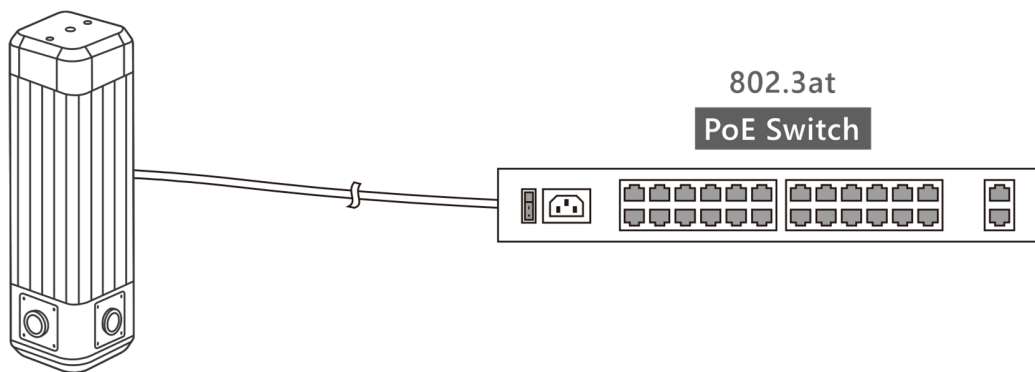


WARNING: If waterproof cable gland is not installed and the camera is damaged, the warranty will be avoided.

8 Using PoE Switch

When Using a PoE Switch

The network camera is PoE compliant, allowing transmission of power and data via a single Ethernet cable. Follow the below illustration to connect the network cable to a PoE 802.3at Class 4 Switch or mid-span via an ethernet cable.



9 FAQ

Frequently Ask Questions

Question	Answer
How to Tenet to Camera?	You can access the camera by telnet tool, the IP address is "192.168.1.100". The account information is as follows: Username: root Password: N/A
How to reset to factory default?	When you access the camera successfully by telnet, you could follow steps to reset factory default: Step 1: Login the camera by telnet Step 2: ast_param reset Step 3: Reboot