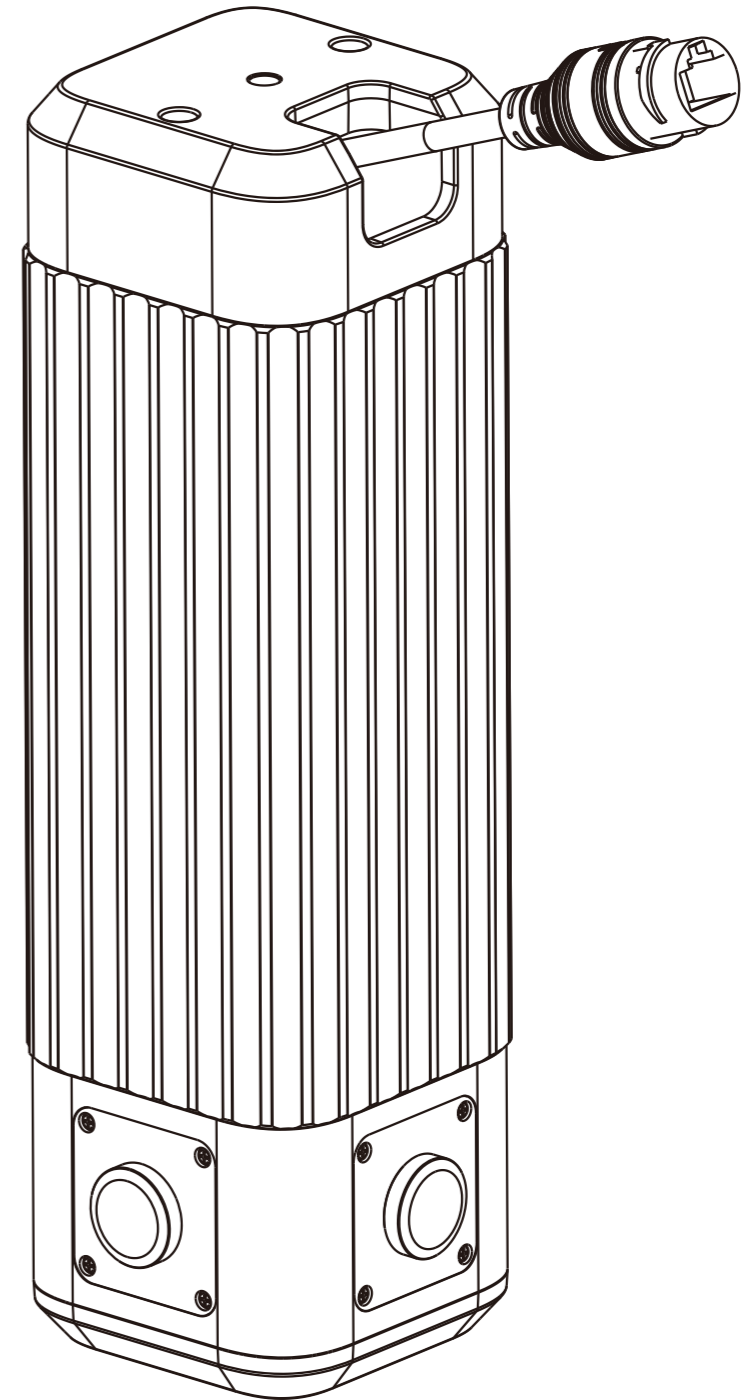


360 IP Camera

360 IP Camera



User Manual



警告：為避免電磁干擾，本產品不應安裝或使用於住宅環境。

Warning: To avoid electromagnetic interference, this product should not be installed or used in residential environments.

Avertissement : Pour éviter les interférences électromagnétiques, ce produit ne doit pas être installé ou utilisé dans des environnements résidentiels.

設備名稱: 360 IP Camera Equipment name	型號 (型式) Type designation (Type)		Cupola360 C1FA18002 T99I501.0	Cupola360 C1FA18003 T99I563.0		
單元Unit	限用物質及其化學符號 Restricted substances and its chemical symbols					
	鉛 Lead (Pb)	汞 Mercury (Hg)	鎘 Cadmium (Cd)	六價鉻 Hexavalent chromium (Cr+6)	多溴聯苯 Polybrominated biphenyls (PBB)	多溴二苯醚 Polybrominated diphenyl ethers (PBDE)
電路板 PCB	—	○	○	○	○	○
外殼 Housing	○	○	○	○	○	○
照相機模組 Camera Module	—	○	○	○	○	○
配件 Accessories	○	○	○	○	○	○
外部線材 External Cable	○	○	○	○	○	○

備考1. “超出0.1 wt %” 及 “超出0.01 wt %” 係指限用物質之百分比含量超出百分比含量基準值。

Note 1: “Exceeding 0.1 wt %” and “exceeding 0.01 wt %” indicate that the percentage content of the restricted substance exceeds the reference percentage value of presence condition.

備考2. “○” 係指該項限用物質之百分比含量未超出百分比含量基準值。

Note 2: “○” indicates that the percentage content of the restricted substance does not exceed the percentage of reference value of presence.

備考3. “-” 係指該項限用物質為排除項目。

Note 3: The “-” indicates that the restricted substance corresponds to the exemption.

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01

PRODUCT SPECIFICATION

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Product specification

ISP	ASPEED AST1235 + AST1220
Sensor	High quality imaging with 8 MP resolution 1/1.8" CMOS x 4
Stitching	Realtime multiple camera image stitching and dewarping
Field Of View	360° (Horizontal) / 180° (Vertical) / F2.2
Network Interface	IEEE802.3 10/100/1000 Ethernet
Network Protocol	DHCP/DNS/NTP/HTTP/HTTPS/IPv4/TCP/UDP RTP/RTSP/RTMP/ONVIF (Profile S)
Video compression	H.264/MJPEG
Image enhancement	HDR, WDR, ROI AE
Multichannel Streaming	3840x1920 @ 30fps
PoE	IEEE 802.3at Type 2
Weatherproof	IP66
Regulatory	CB ver3 ; CNS15936; ICES-003, Issue 7, Class A; 47 CFR Part15, Subpart B, Class A; IEC62368-1; 62368-1 ED.2
Humidity	5% to 90% RH
Operation temperature	- 10°C to + 50°C

Mounting	Ceiling / Wall mount
Dimension	68 x 68 x 200mm
Input Rating	48Vdc / 0.5A

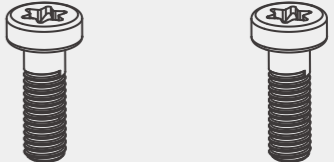
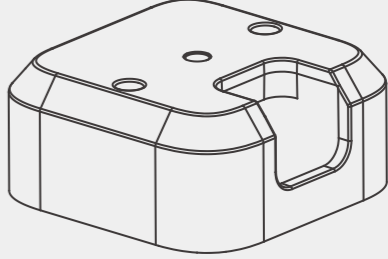
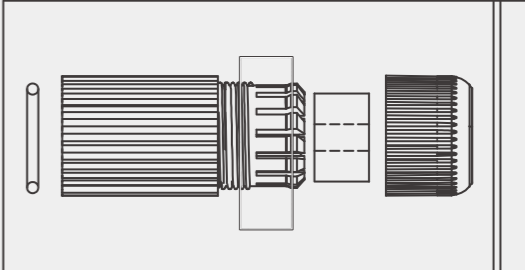
02

ACCESSORY & INSTALLATION

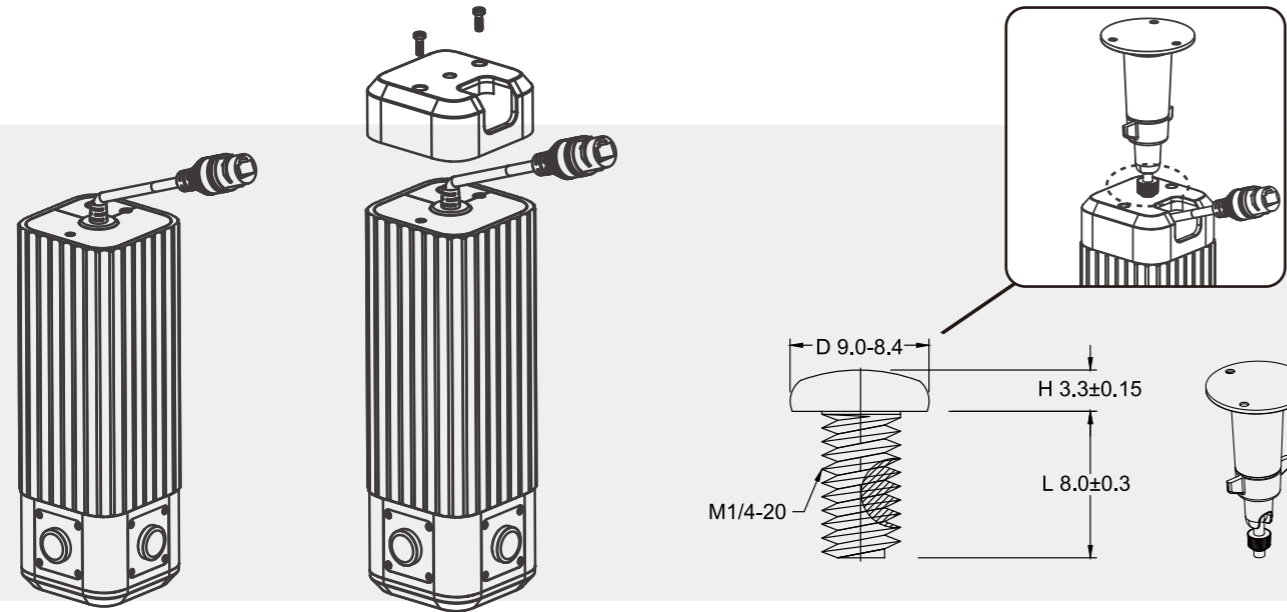
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Accessory & Installation

• Accessory

Quantity	Item	
2pcs	Phillips M3 × 2 L:7 ± 0.45mm / W:2.88 ~ 2.96mm	
1pcs	Pedestal	
1pcs	POE Waterproof caps	

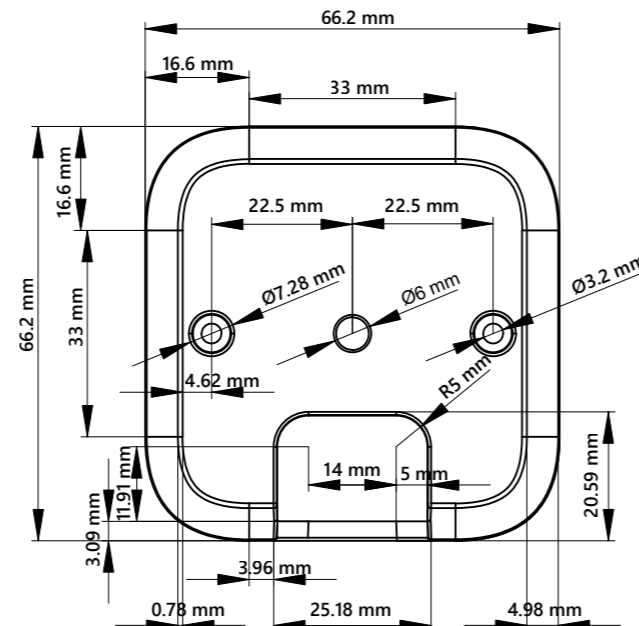
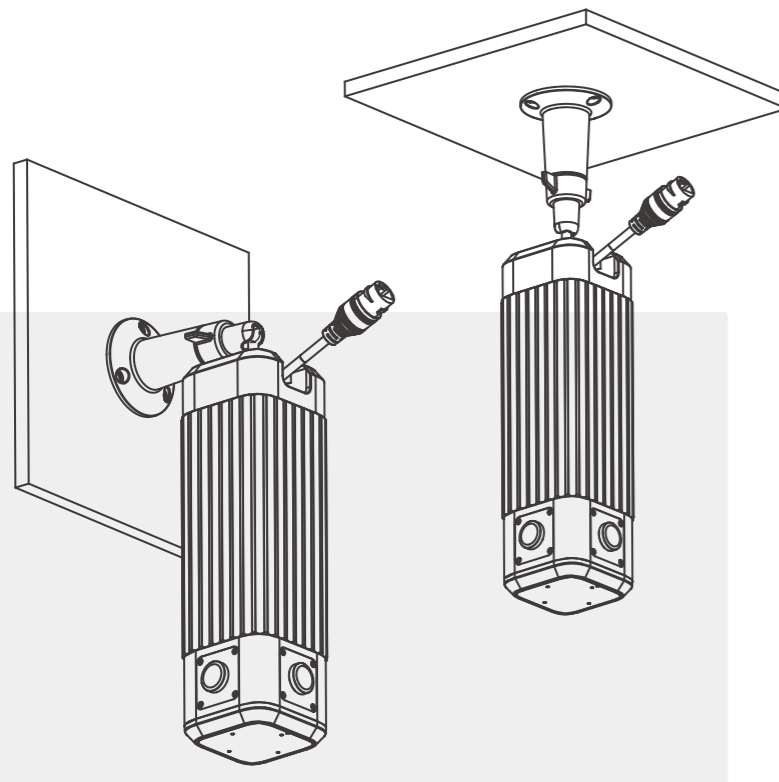
• Installation



1. Only qualified personnel should be allowed to install, replace, and service the equipment.
2. Installation must be performed by licensed professionals.
3. To protect the unit from intended or unintended damage it is recommended to install the unit in a secured area without access for people who are not employed by the operator.
4. If the unit is installed in a public area it is recommended to install it i height above 3.5 meters to prevent access from pedestrians.

03

360 IP CAM SETUP



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360 IP CAM Setup

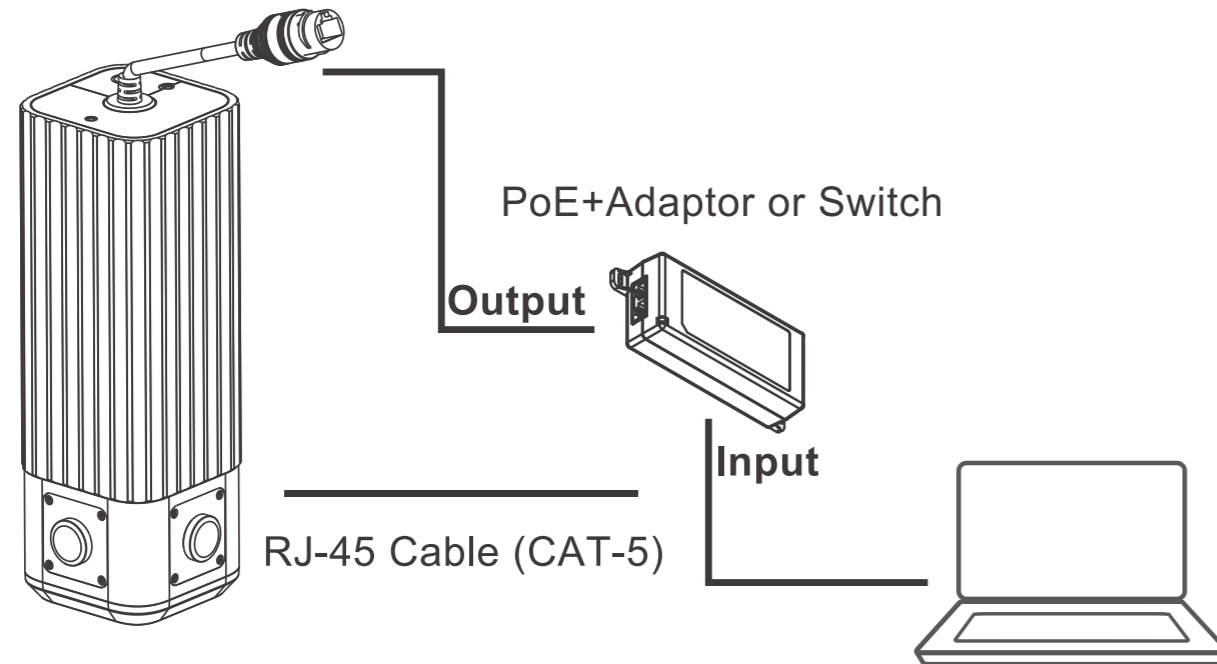
Property	IEEE 802.3at Type 2
Max Power at Powered Device	25.50 Watts
Max Power delivered at Switch Watts	30.0 Watts
Voltage Range at PD	42.5 - 57.0 V
Power Management	Class 4 at initial connection 0.1 Watt steps negotiated continuously
Cabling	CAT-5 (above level)

This product is intended to be supplied by a Listed PoE compliant source, rated 48Vdc 0.5A minimum, and Tma = 50 degree C. If need further assistance with purchasing the power source, please contact to Cupola360 Inc. for further information.

Warning: Protective earthing is used as a safeguard "Power cord connected to a socket-outlet with earthing connection"
Avertissement :La mise à la terre de protection est utilisée comme une sécurité : Câble d'alimentation connecté à une prise de courant avec connexion à la terre.

04

GETTING STARTED

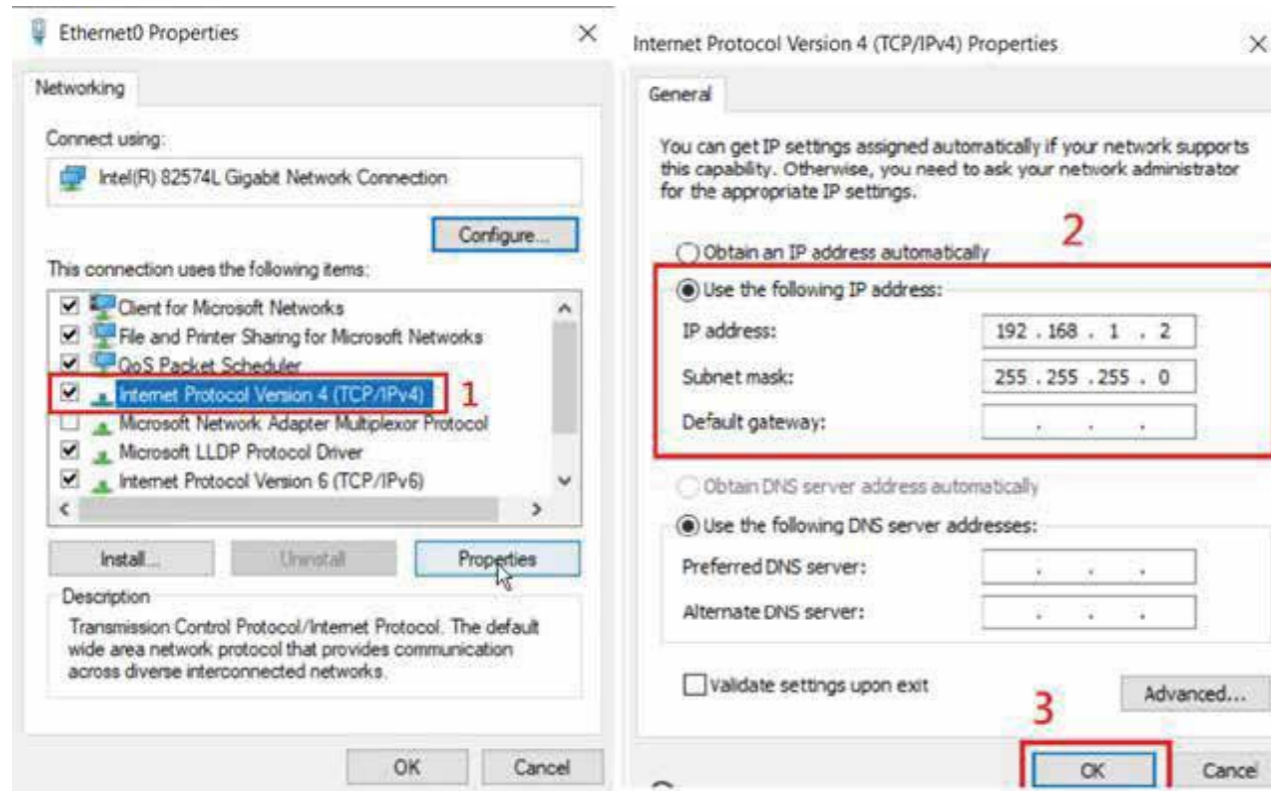


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System Requirement		
Item	Suggestion	Note
OS	Windows 10/11	
CPU	Intel Core i7	
Memory	16GB	
GPU	standalone	

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)

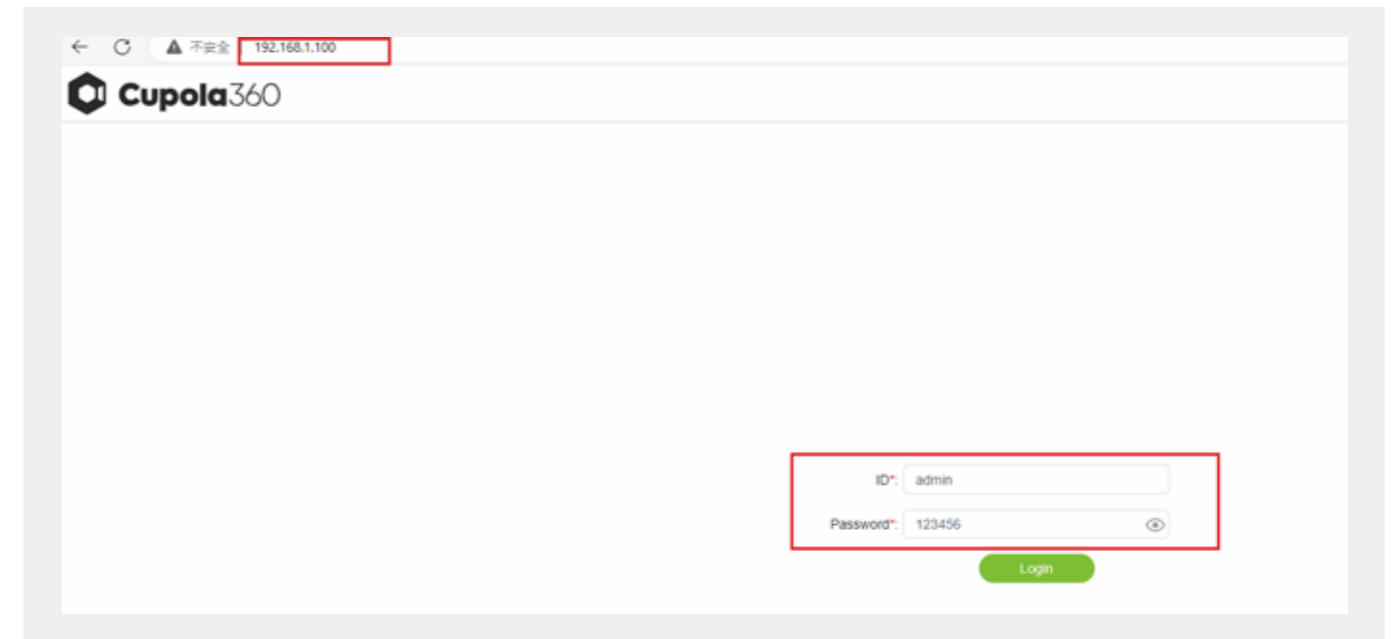
```
Command Prompt
Microsoft Windows [Version 10.0.19045.2965]
(c) Microsoft Corporation. All rights reserved.

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

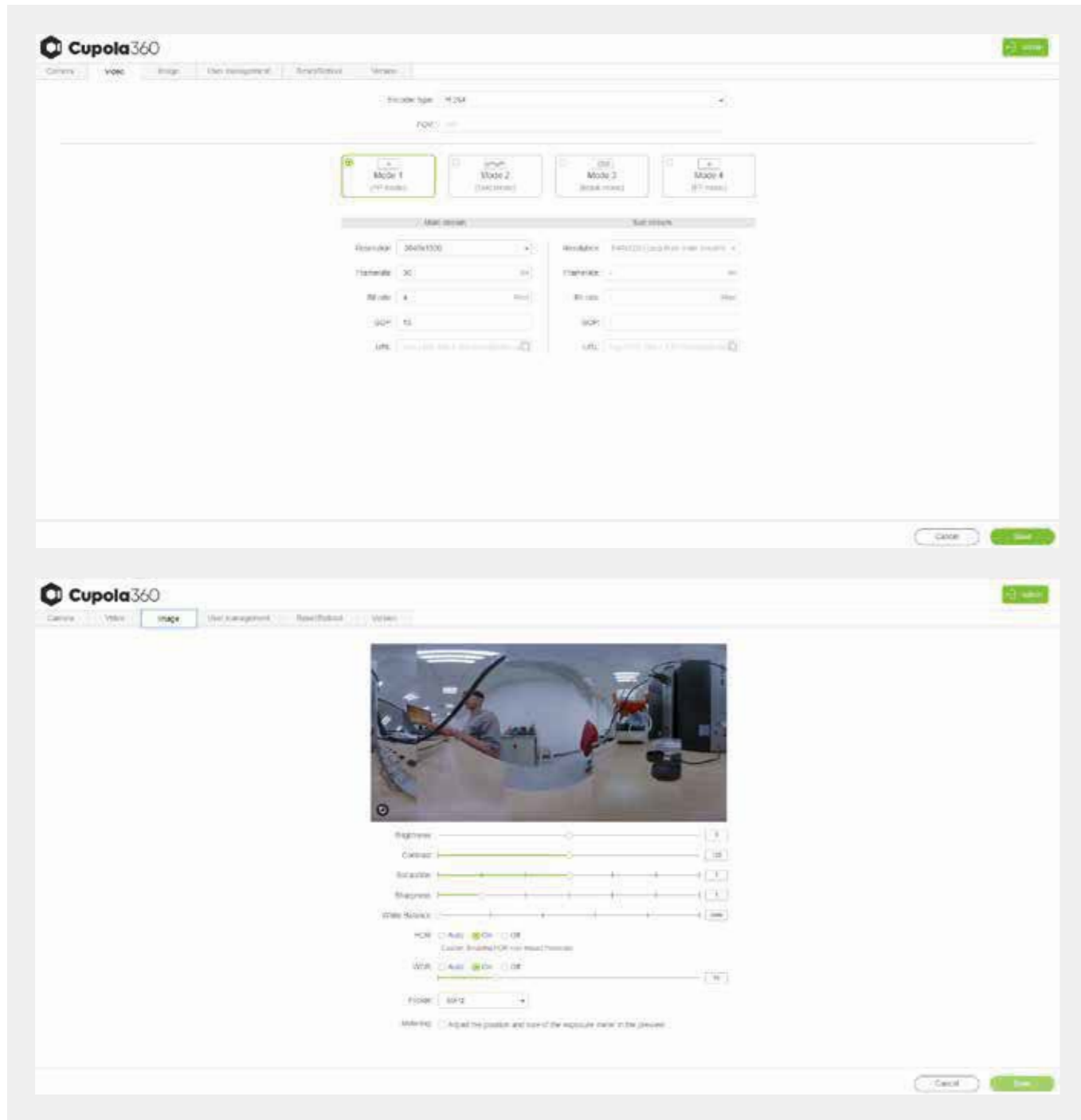


Detail setting:

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



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



3.User management: Create, modify and delete the login account.

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

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

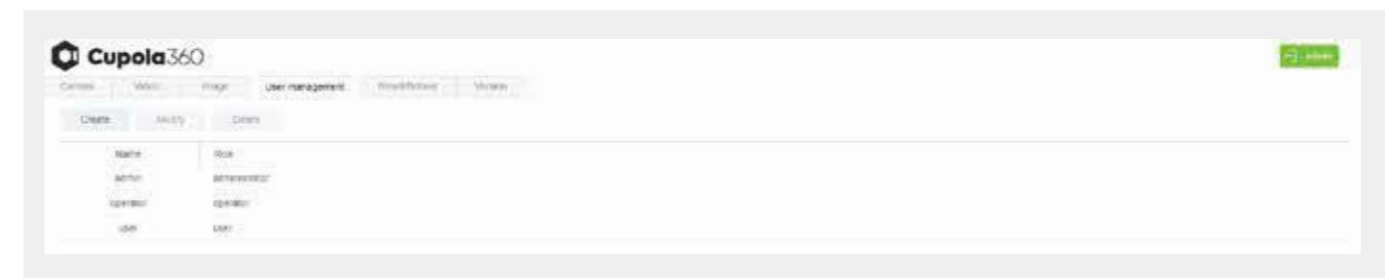
[Modify] Editable: Password

Role(level): excluding the default three accounts.

[Delete] Unable to delete the default three accounts.

[NOTE]

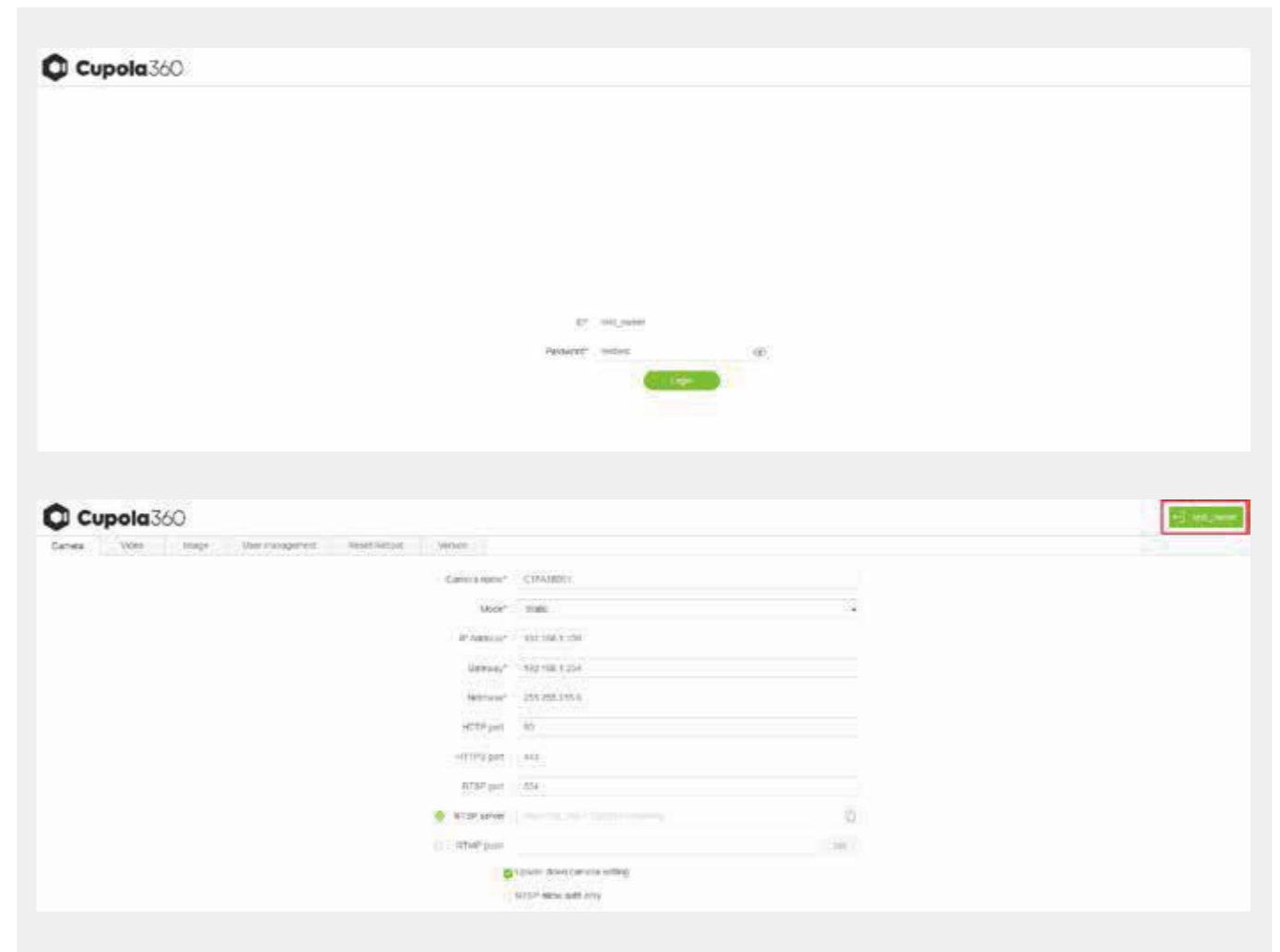
1. Only Admin can modify or add accounts.
- 2.The initial three accounts cannot be modified their role level.



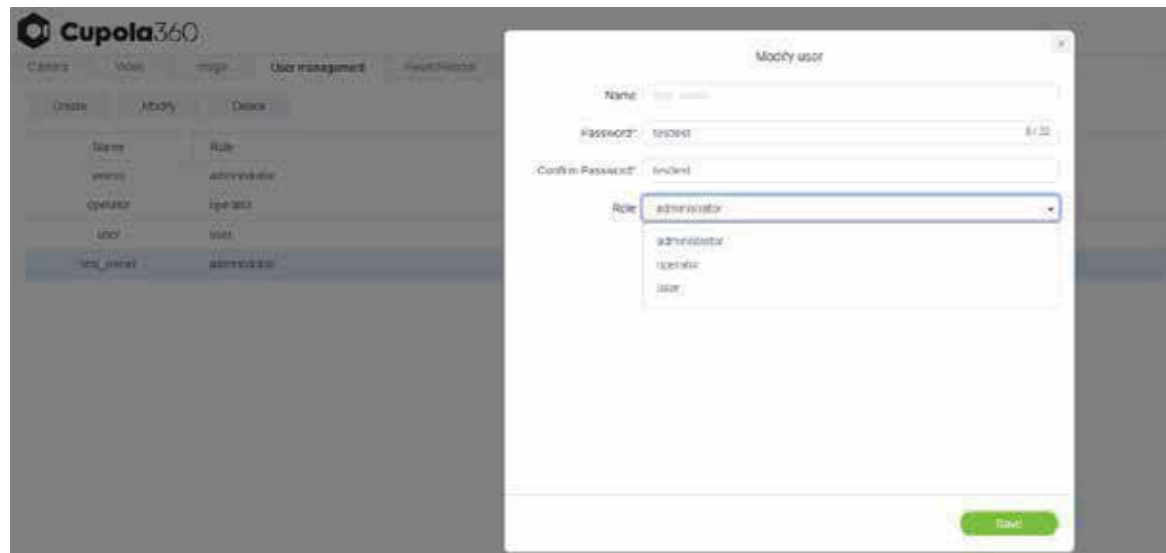
Create:



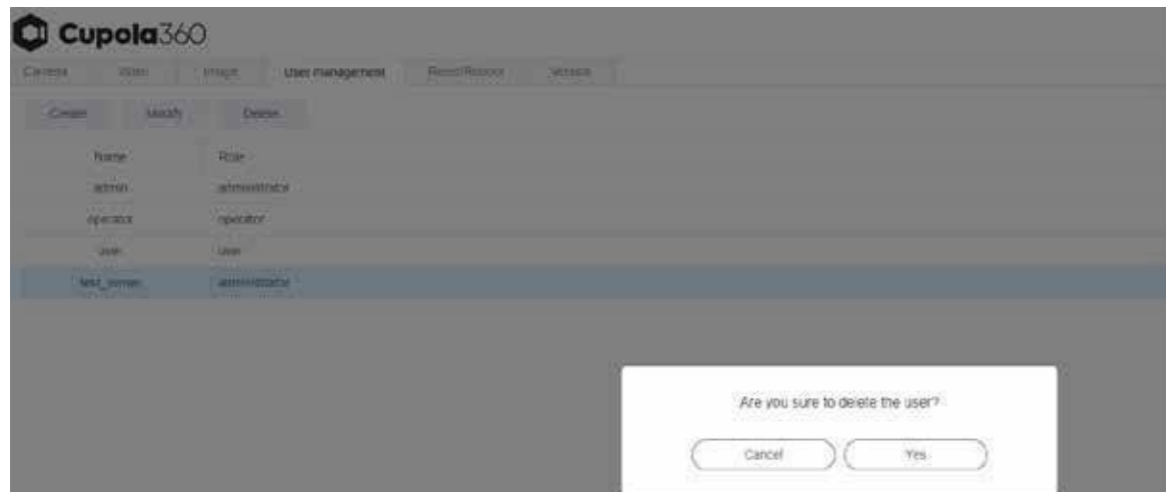
Log in through the created account



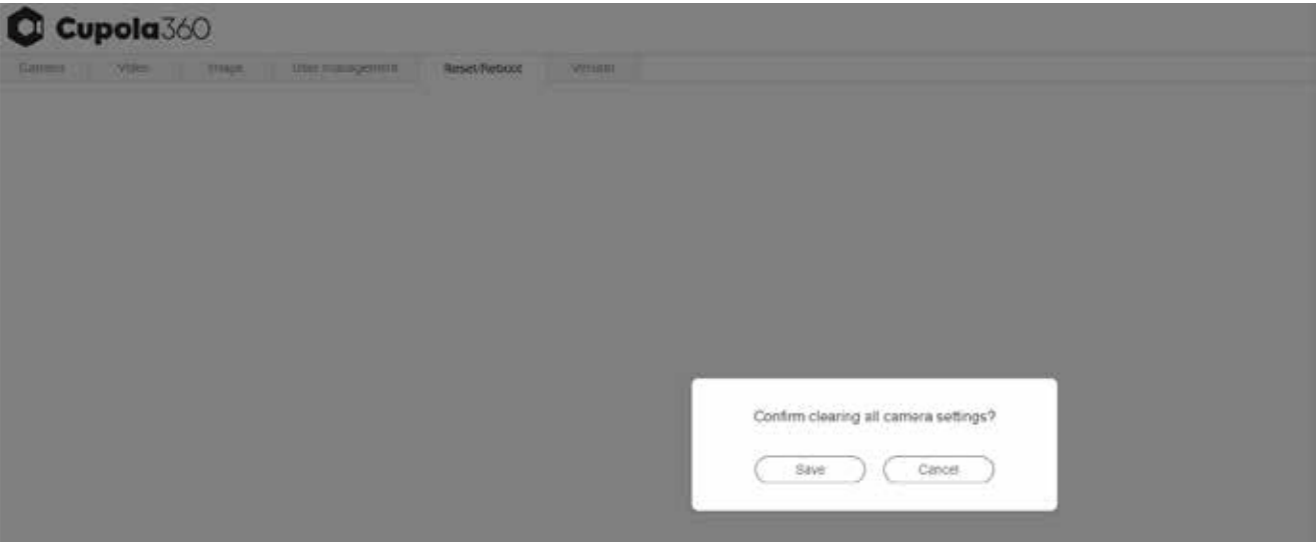
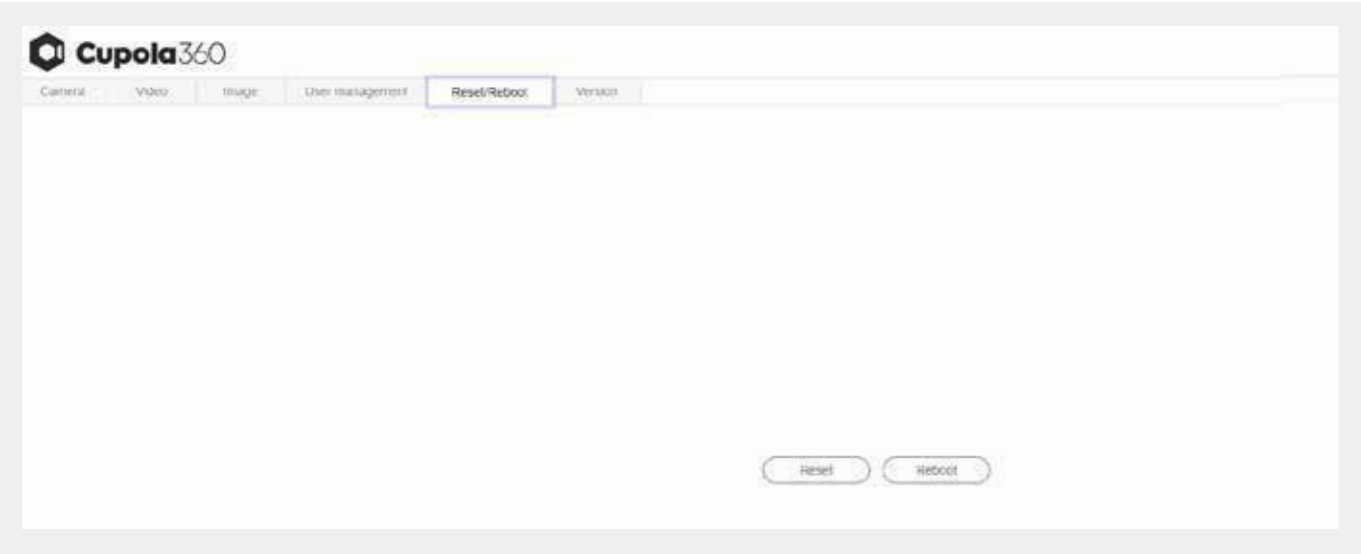
Modify:



Delete:

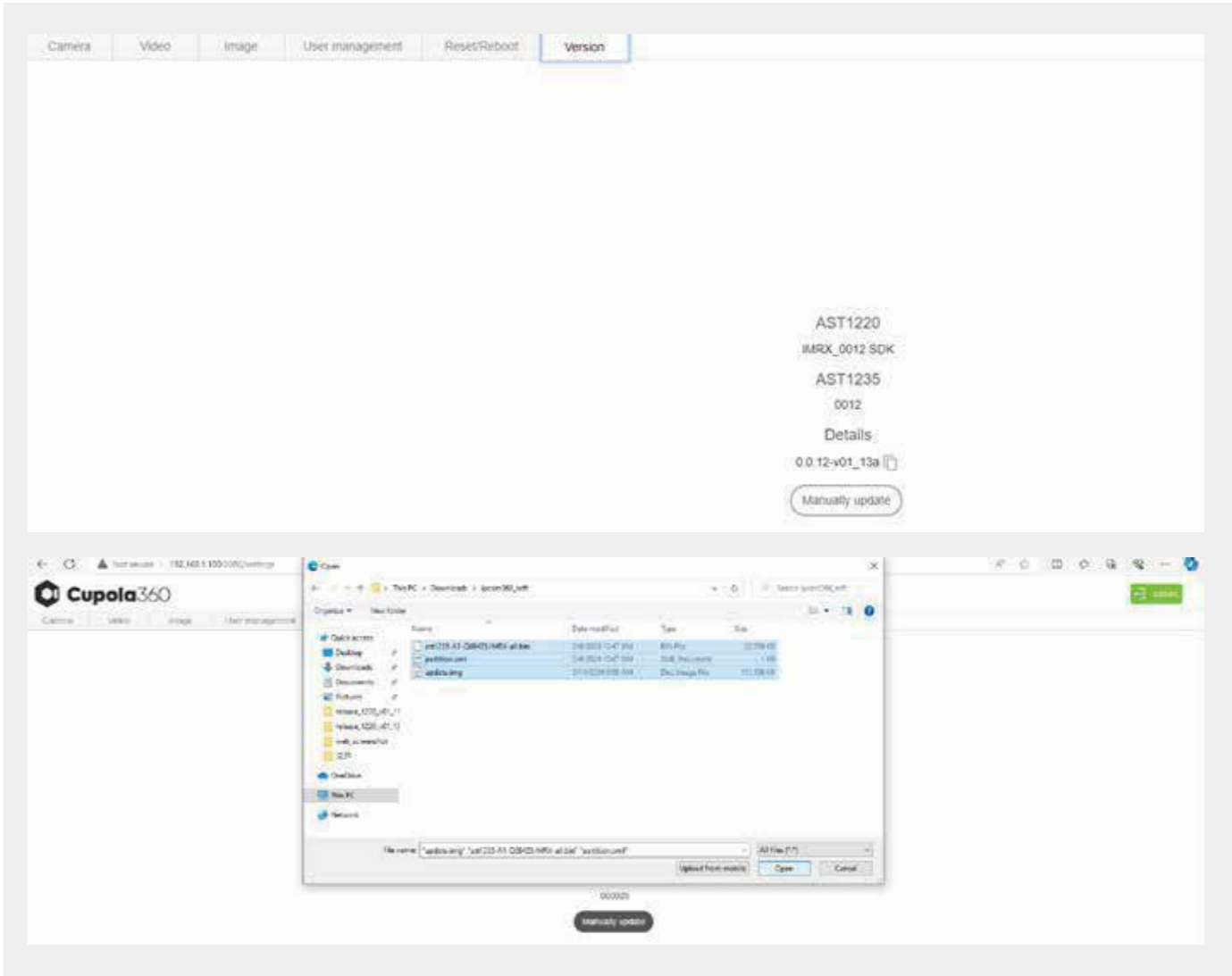


4. **Reset/Reboot:** If you want to restore the manufacture status, please click reset button.



5. **Version:** Display IP-Cam 360 version
a. **Manually update:** upload three files which are provided from the vender.

Three files: "update.img", "partition.xml" and "ast1235-A1-Q08423.IMRX-all.bin".



IP-Cam 360 LED Status

	Indicator	Behavior
Normal	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

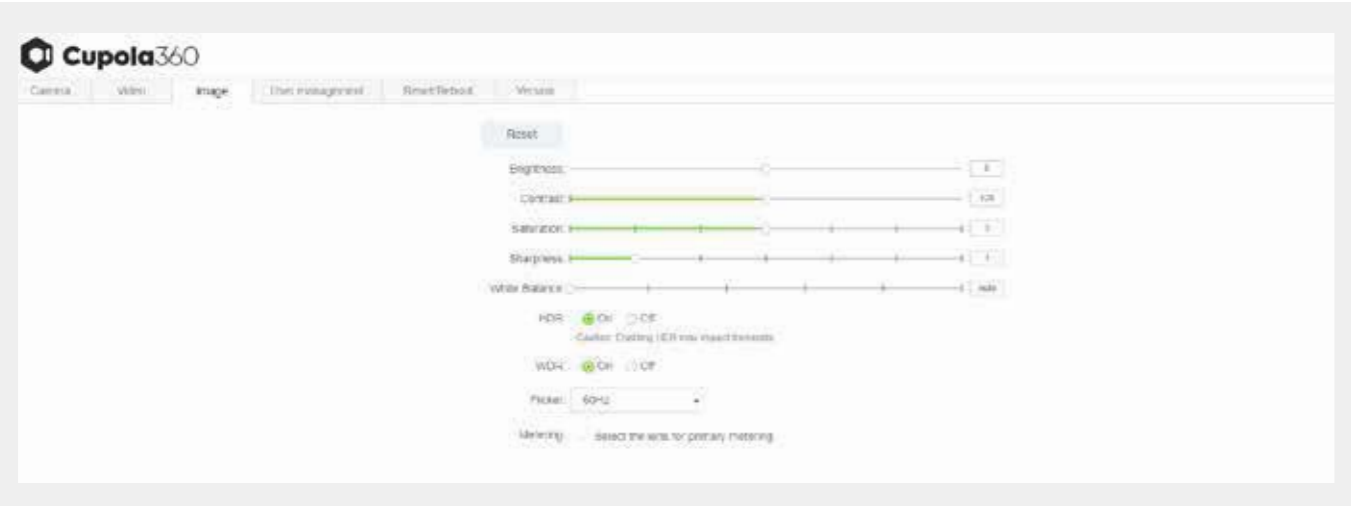
05

360 IP CAM WEB PAGE CONFIGURATION INSTRUCTIONS

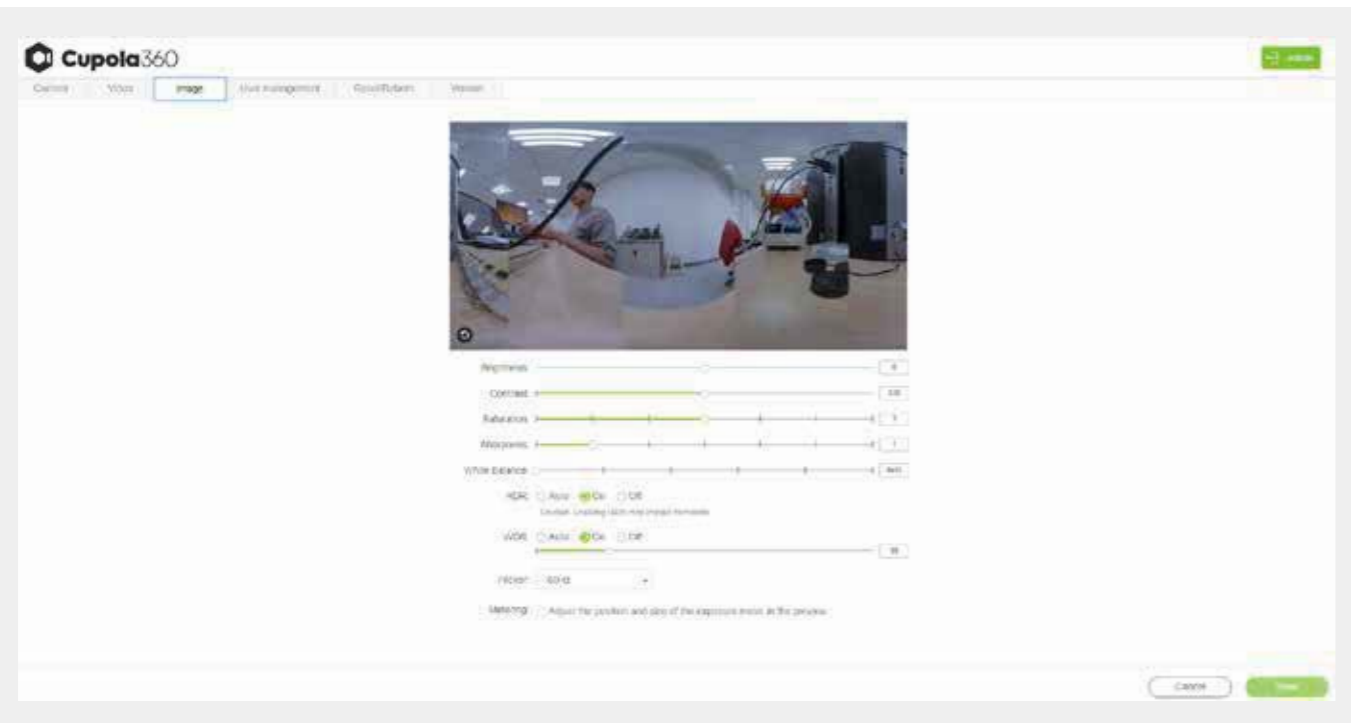
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360 IP CAM Web Page Configuration Instructions

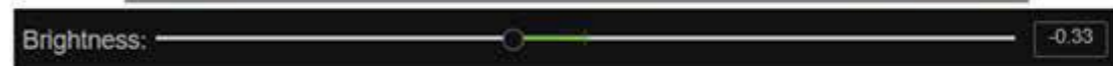
- Enter the web



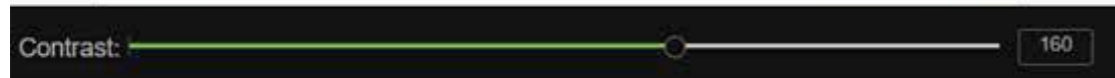
- Users can fine-tune image settings according to the scene.
- The open adjustment items are as follows:



- Tuning instructions
- Brightness



- **Contrast**



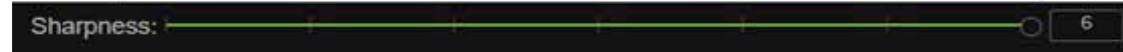
- **Saturation**

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



- **Sharpness**

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



- **HDR**

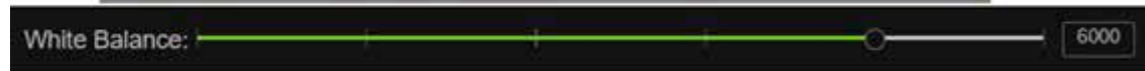
For high dynamic range scenes, it is highly recommended to turn on HDR.

Avoid overexposure and underexposure in images.



- **White Balance**

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

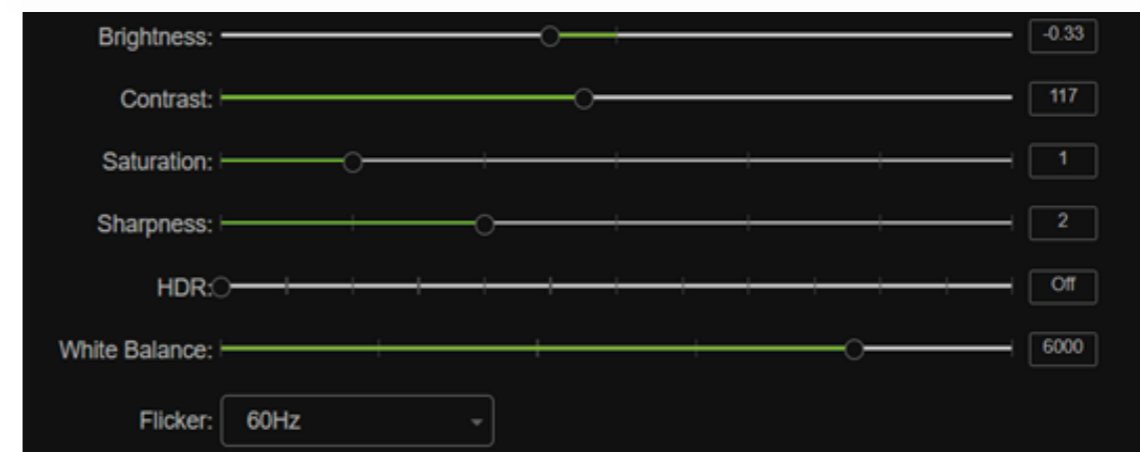


- **Appendix: Web UI adjustment result**

Default



Tuning



06

ONVIF PROFILE S

ONVIF Profile S

ONVIF profile S is designed for IP-based basic streaming video systems.

The camera can connect to NVR or VMS which supports Onvif protocol.

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07

TROUBLESHOOTING

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Troubleshooting

How to perform a system reset?

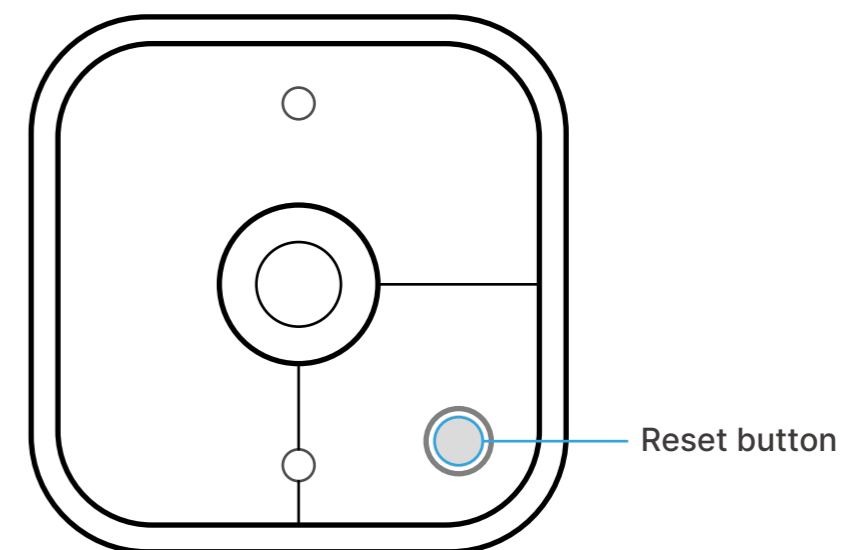
Answer: When the camera is powered on and operating normally (blue LED on), follow these steps to reset:

Step 1: Press and hold the Reset button.

Step 2: Keep holding until the LED starts flashing red and blue alternately.

Step 3: Release the button once the flashing begins.

Result ⇒ The system will enter the reset process.



08

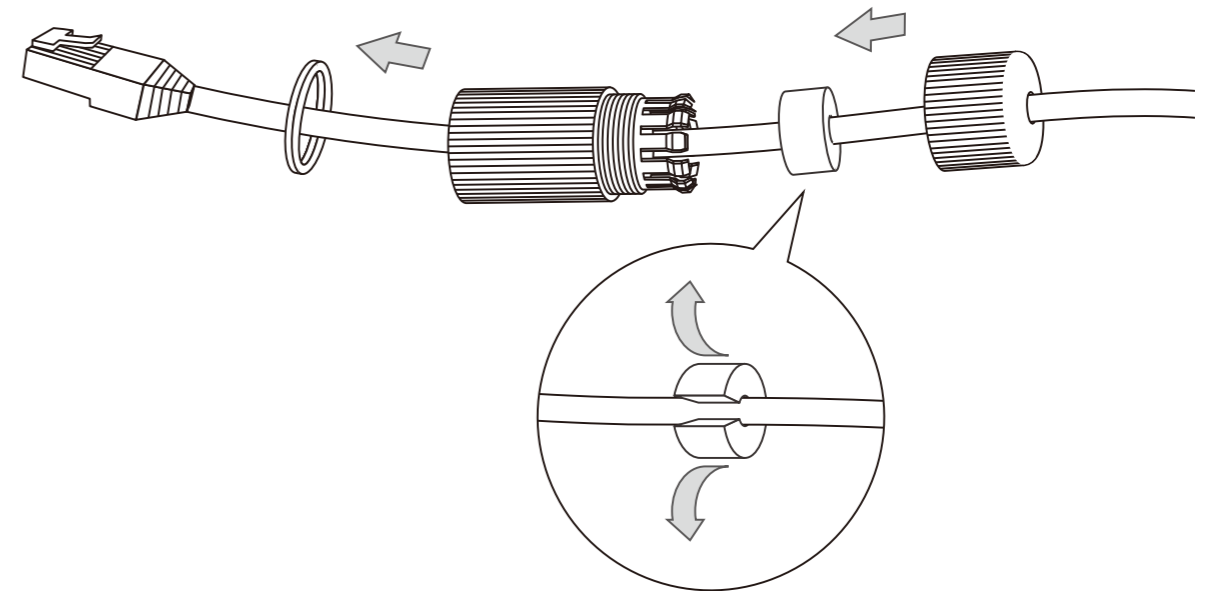
INSTALLING THE WATERPROOF CABLE GLAND

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Installing the Waterproof Cable Gland

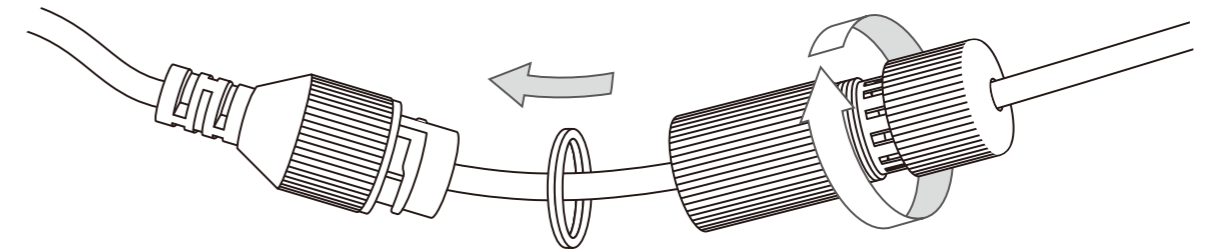
Step 1 :

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 components.



Compatibility :

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

Not supported: Flat cables or braided mesh cables.



警告：若未安裝防水電纜接頭，導致相機損壞，將不提供保固服務。

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

09

WHEN USING A POE SWITCH

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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 Camera to a PoE 802.3at Class 4 switch or mid-span via an Ethernet cable.

