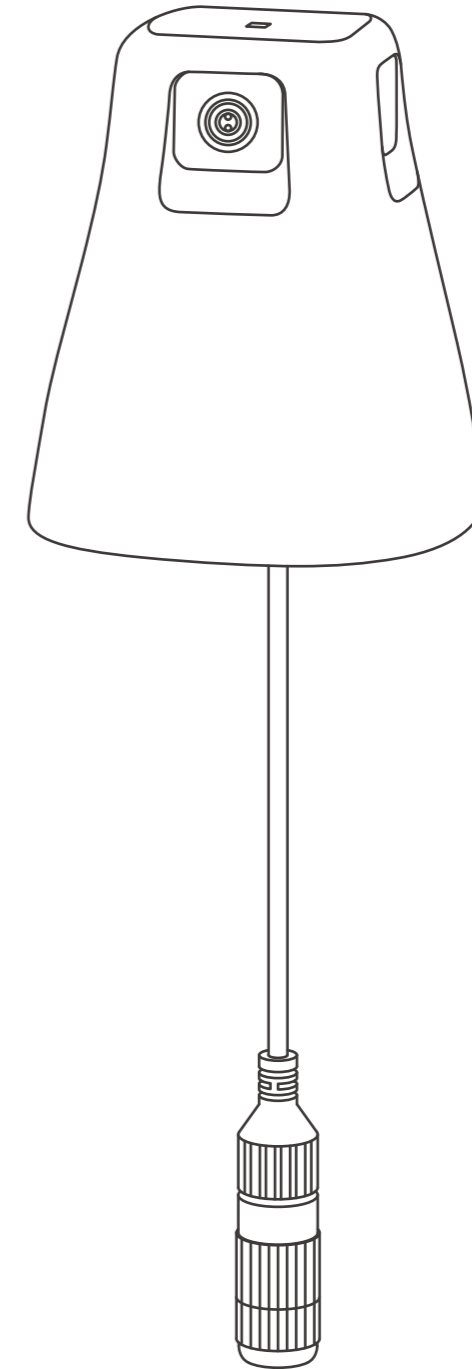


360 IP Camera



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 Equipment name	360 IP Camera		型號 (型式) Type designation (Type)	Cupola360 C1PA08501 CPL22B		
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 Mercury (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	○	○	○	○	○	○
鏡頭模組 Camera Module	○	○	○	○	○	○
外殼 Housing	○	○	○	○	○	○
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 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 1: "O" 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 1: "—" indicates that the restricted substance corresponds to the exemption.

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01

PRODUCT SPECIFICATION

**360 IPCAM
User Manual**

Product Specification

ISP	ASPEED AST1235 + AST1220
Sensor	High quality imaging with 8 MP resolution 1/2.7" 5M CMOS sensor x4
Stitching	Realtime multiple camera image stitching and dewarping
Field of View	360° x 85° field of view F2.5
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	3840 × 1920 @30fps
PoE	IEEE 802.3at compatible
Weatherproof	IP66
Regulatory	CB ver3; CNS 15936; ICES-003, Issue 7, Class A; 47 CFR Part15, Subpart B, Class A; IEC62368-1; 62368-1 ED.2
Humidity	5% to 90 % RH

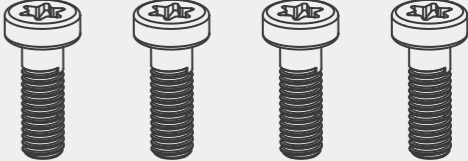
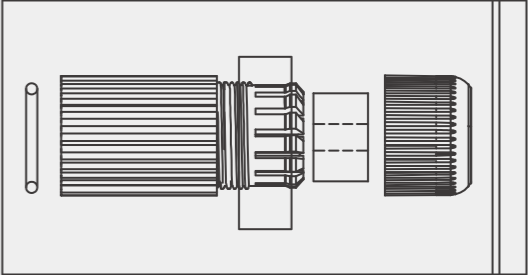
Operation Temperature	-10°C to 50°C operating, -20°C to 60°C storage
Mouting	Celling/Wall mount
Dimension	102 ×114 × 62mm
Input Rating	48 Vdc/0.5 A

Accessory & Dimensions

02

ACCESSORY & DIMENSIONS

► Accessories

Quantity	Item	
4pcs	Phillips M4 × 4 L:10 ± 0.45mm / W:4.0 ~ 4.5mm	
1pcs	POE Waterproof caps	

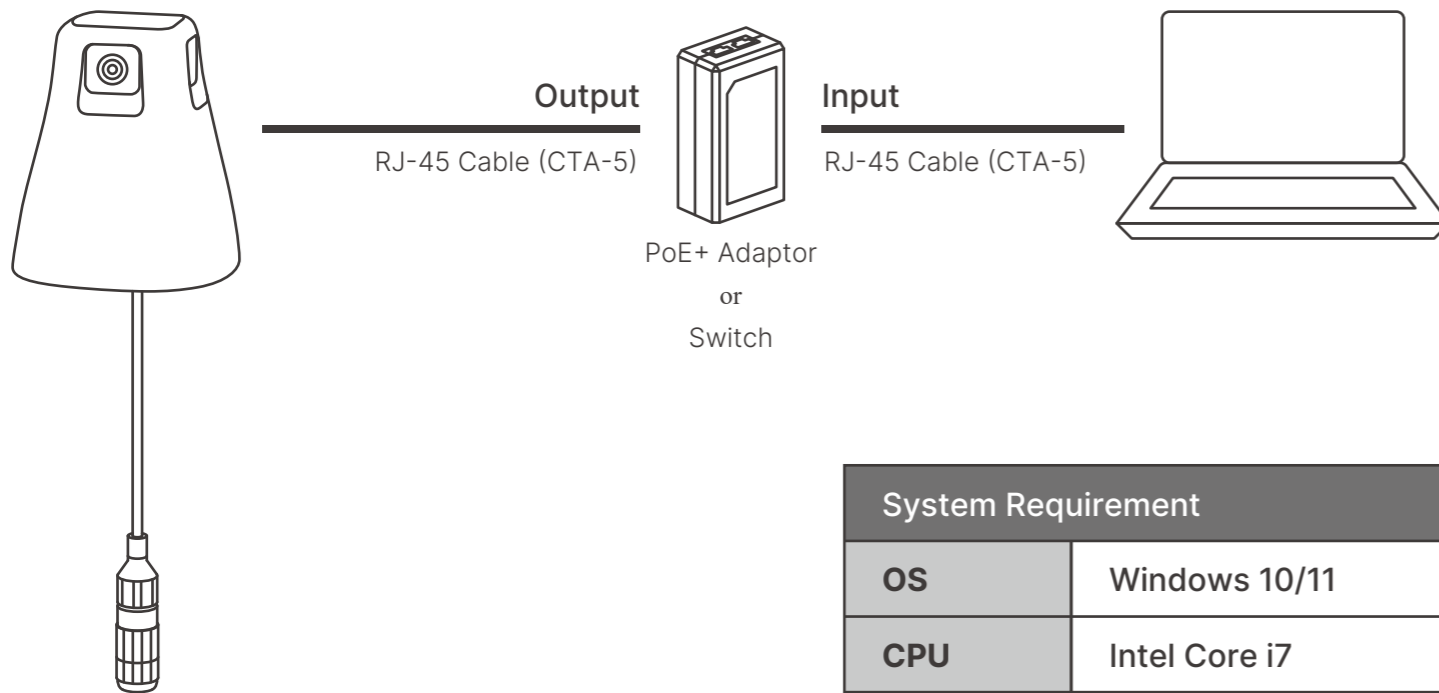
360 IPCAM
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Property	802.3at Type2, PoE+
Max Power at Powered Device	25.50 Watts
Max Power at Delivered at Switch Watts	30.0 Watts
Voltage Range at PD	42.5 - 57.0 V
Power Management	Class 4 at initial connection 0.1 Watt steps negotiated continuously
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 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.



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

04

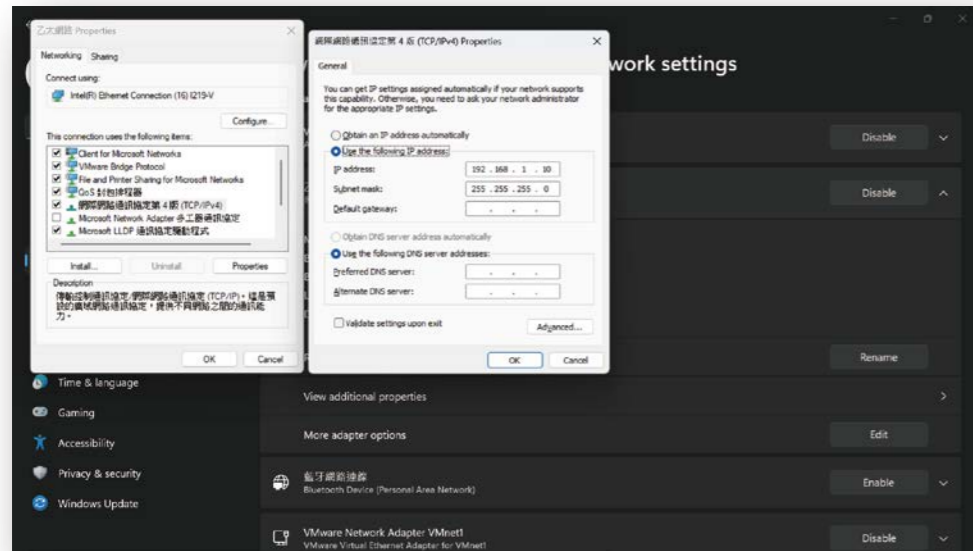
GETTING STARTED

360 IPCAM
User Manual

Getting Started

01 | Connect the camera to a PoE+ switch/injector using an RJ45 CAT6 cable.

02 | Configure the PC's Ethernet adapter as the same network segment as the camera as shown below:



03 | Connect the PC to the switch/injector using another RJ45 CAT6 cable.
Now the camera & the PC should be in the same closed network.

04 | Open Command Prompt and ping the camera's IP to check if the IP is reachable.
(Command: `ping 192.168.1.100` in the command line)

```

Microsoft Windows [Version 10.0.22631.3880]
(c) Microsoft Corporation. All rights reserved.

C:\Users\daniel_chen>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

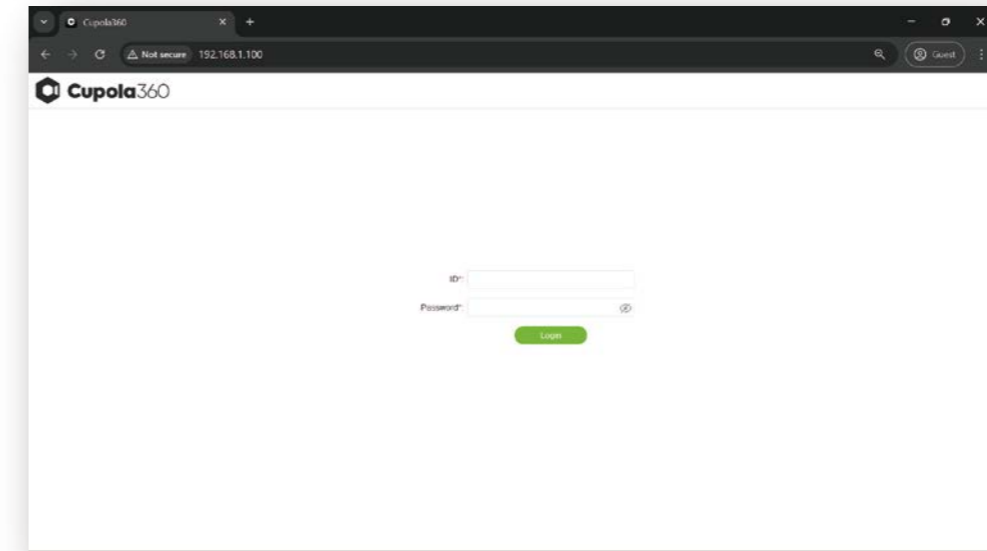
Ping statistics for 192.168.1.100:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 6ms

C:\Users\daniel_chen>

```

05 | Open a web browser and enter camera IP to log in to the camera's web page.

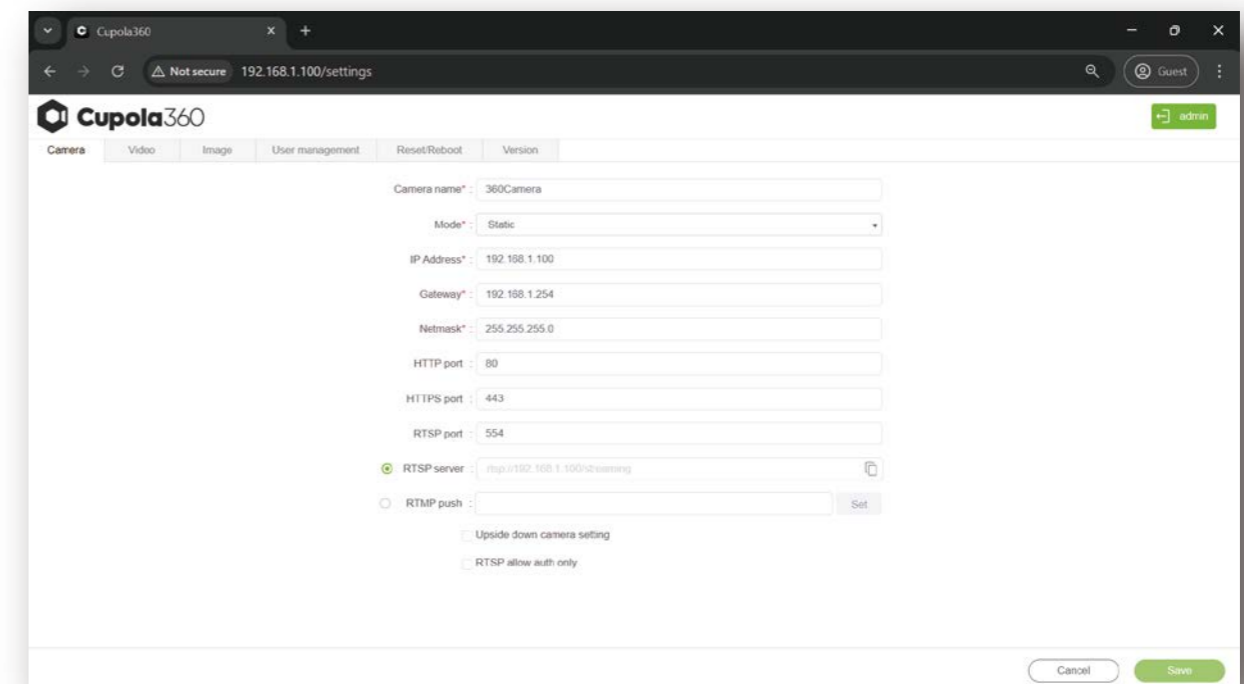
ID: admin
Password: 123456



► Detail Setting

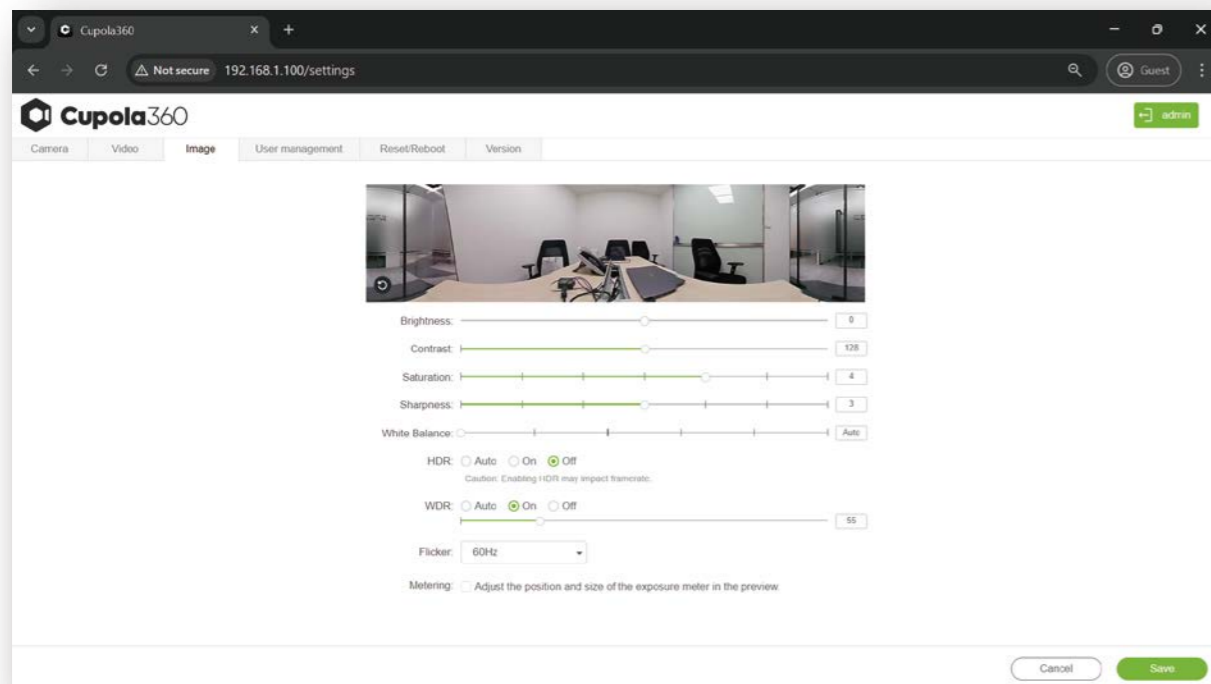
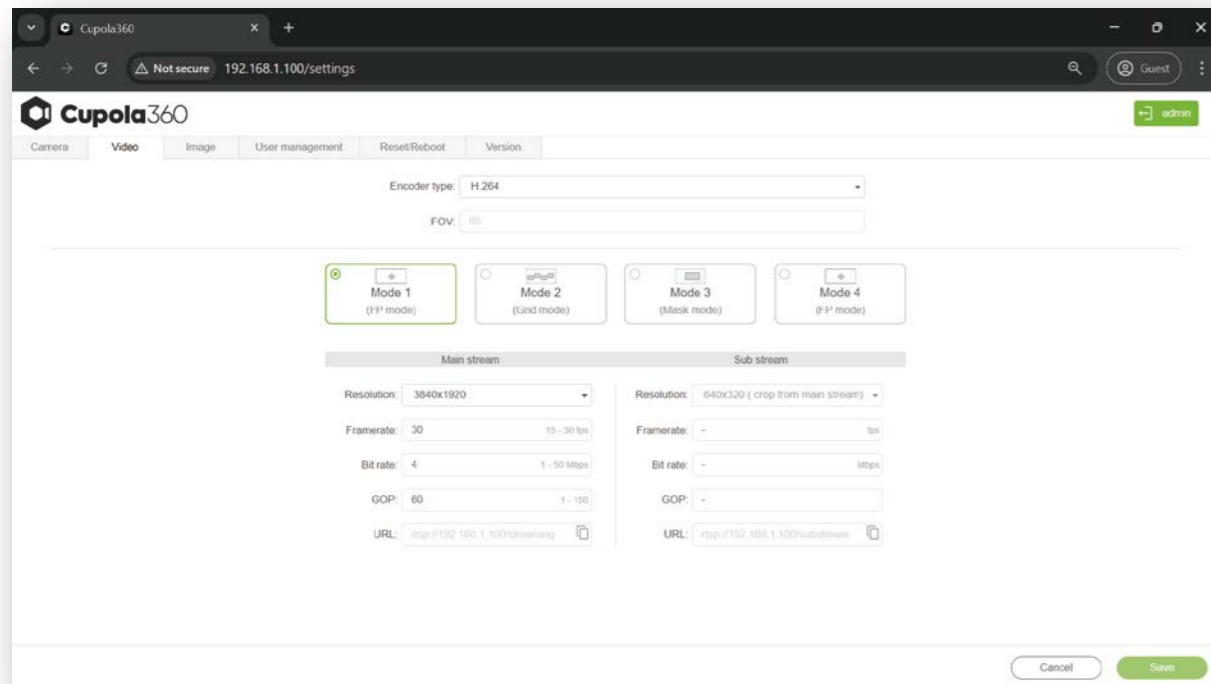
01 | Camera

If not necessary, please avoid changing these settings.



02 | Video and Image

Adjust the values as needed and click "Save" after making modifications.



03 | User Management

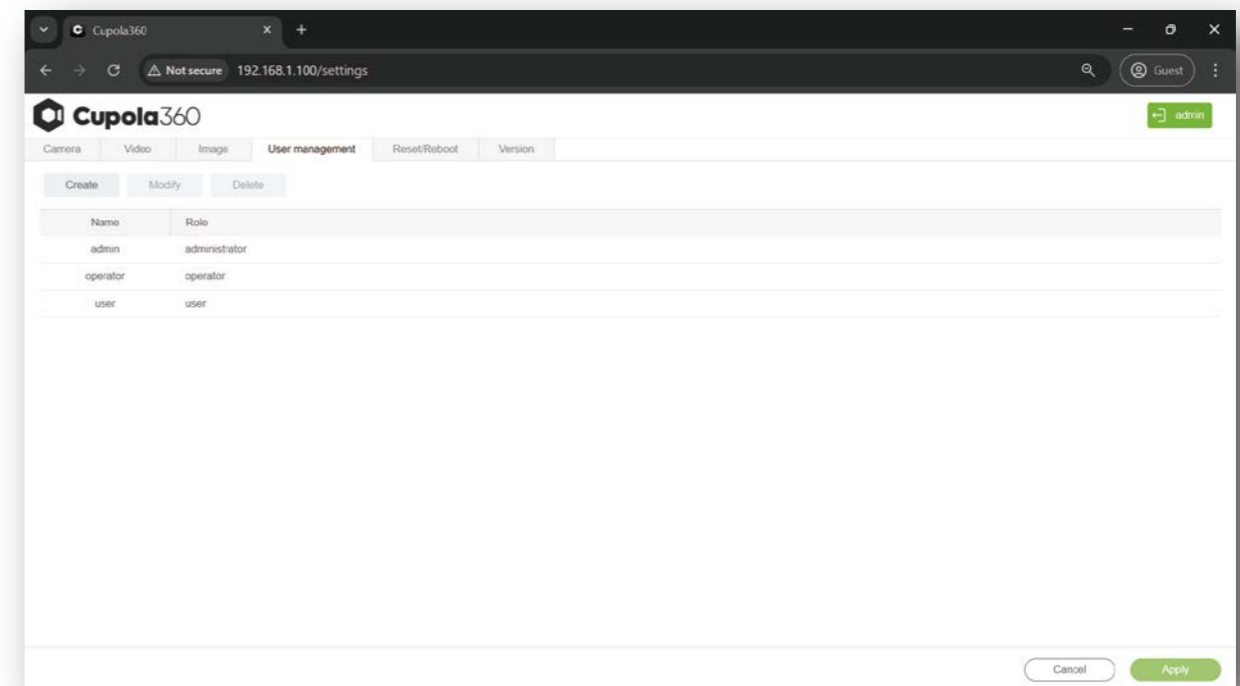
Create, modify, or delete a login account.

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

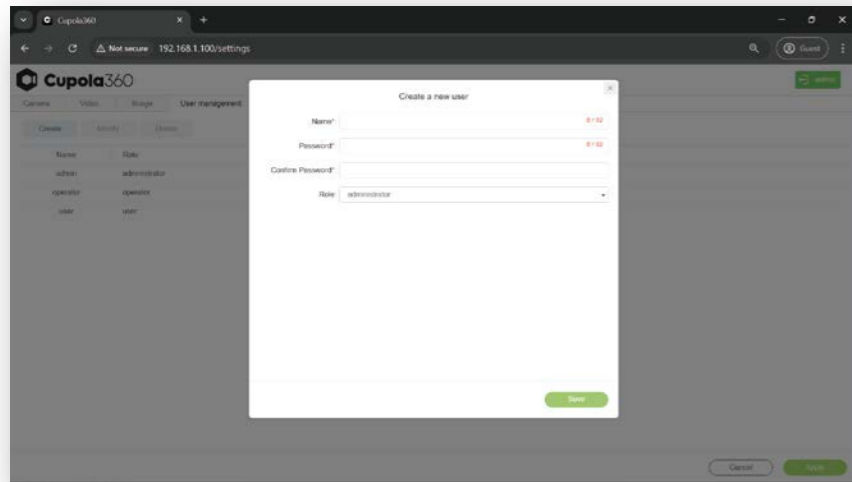
- ▶ **Create**
{Customizable} Username, Password, Role(level).
- ▶ **Modify**
{Editable} Password
Role(level): excluding the default three accounts.
- ▶ **Delete**
Unable to delete the default three accounts.

Note

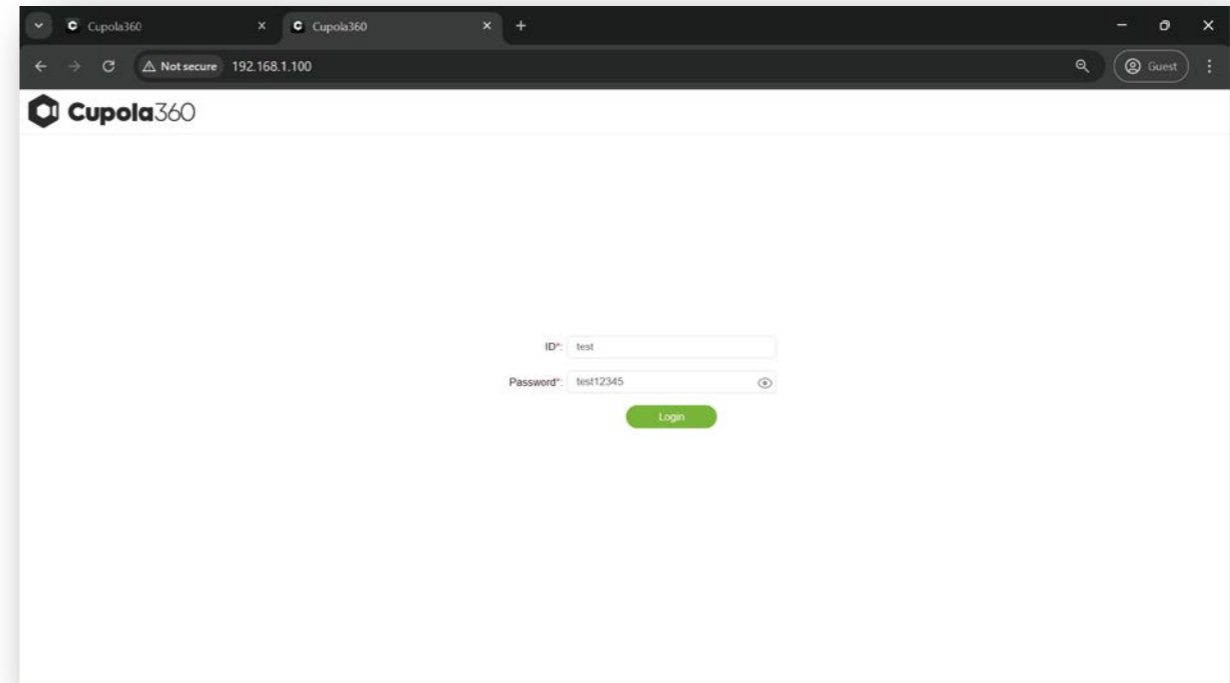
- i. Only Admin can modify or add accounts.
- ii. The initial three accounts cannot be modified their role level.



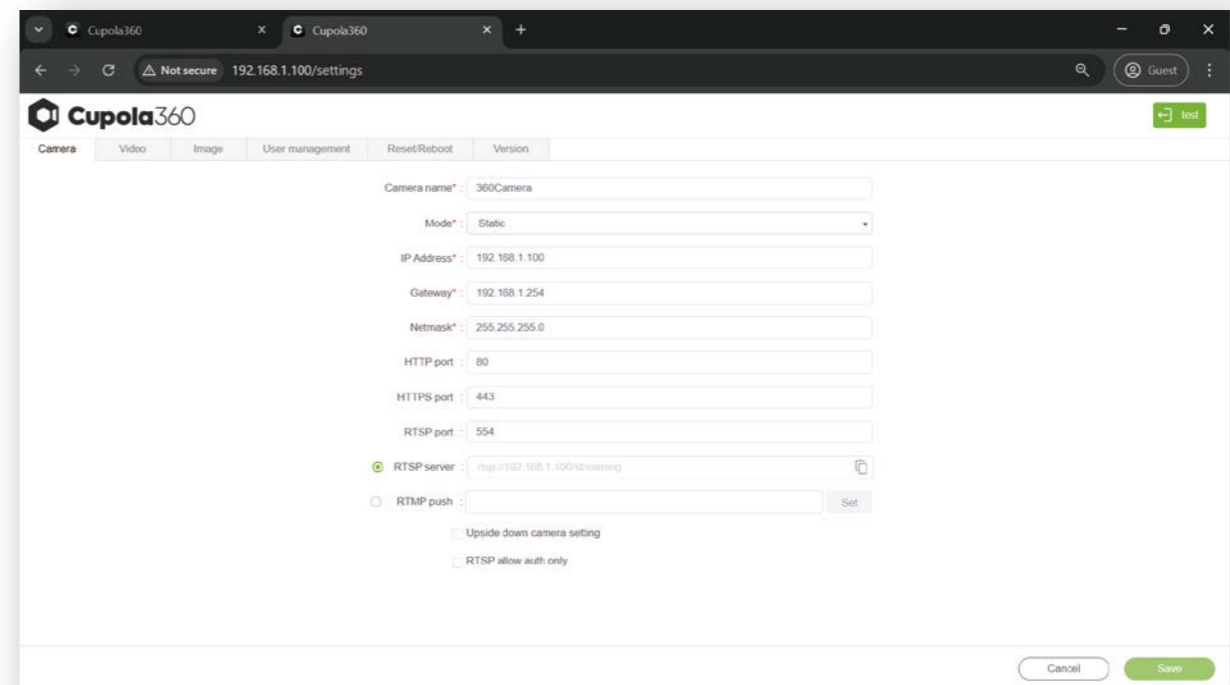
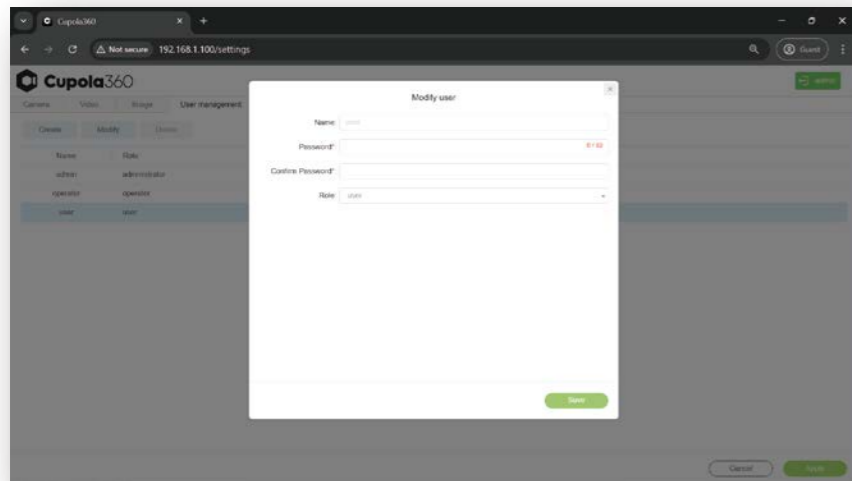
► Create



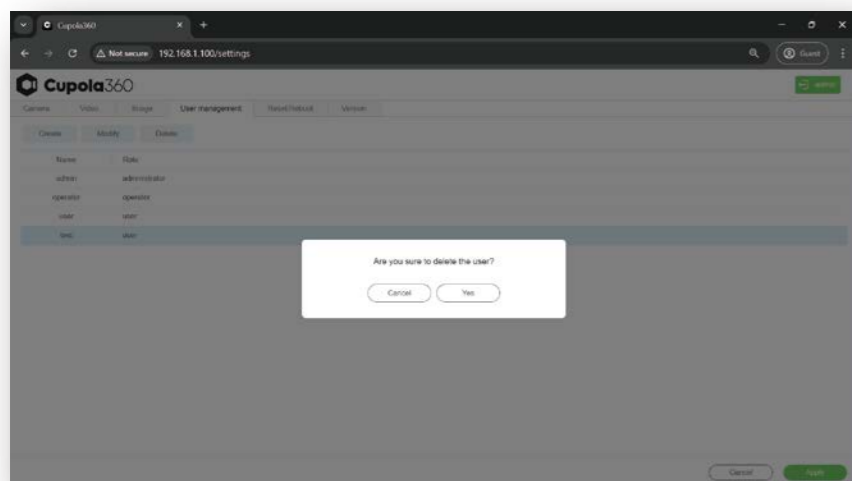
Log in through the created account



► Modify

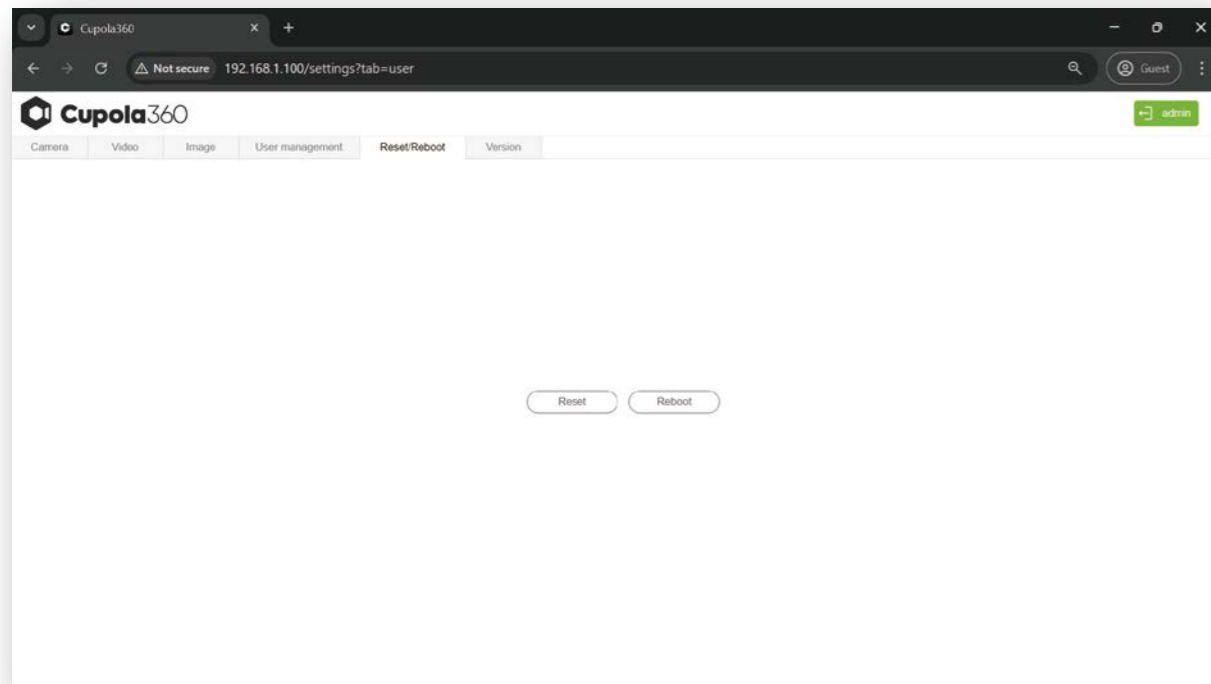


► Delete



04 | Reset/Reboot

To restore factory settings, click the "Reset" button.



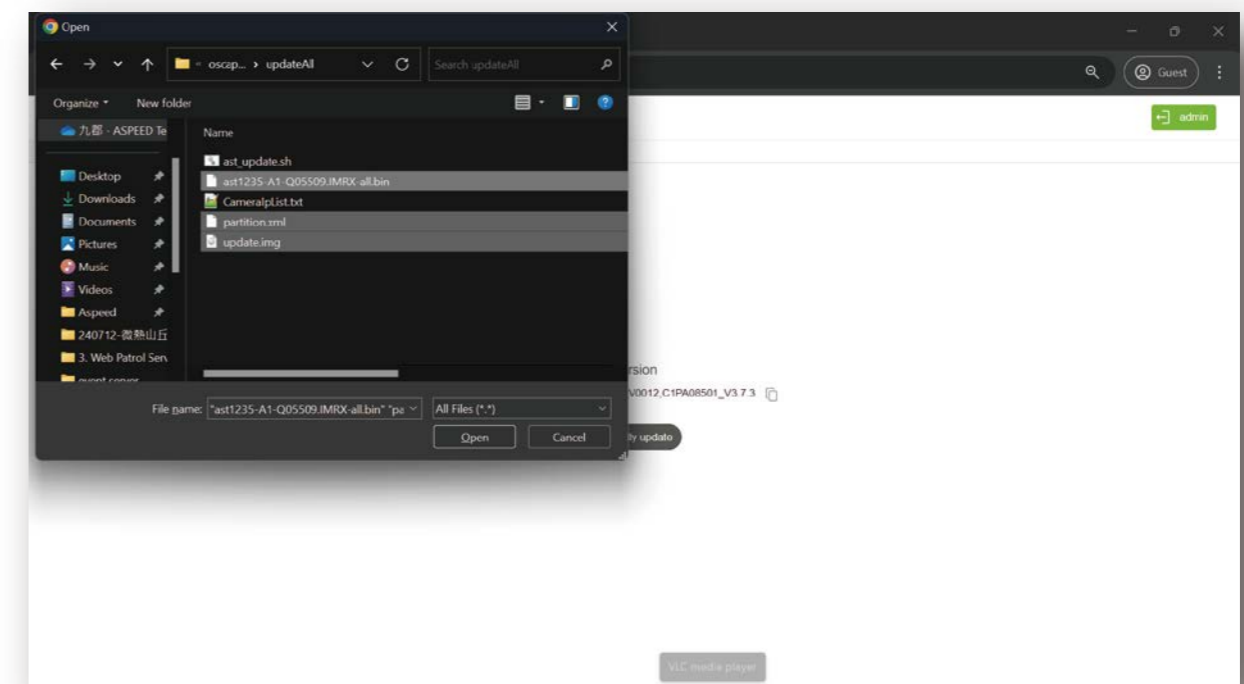
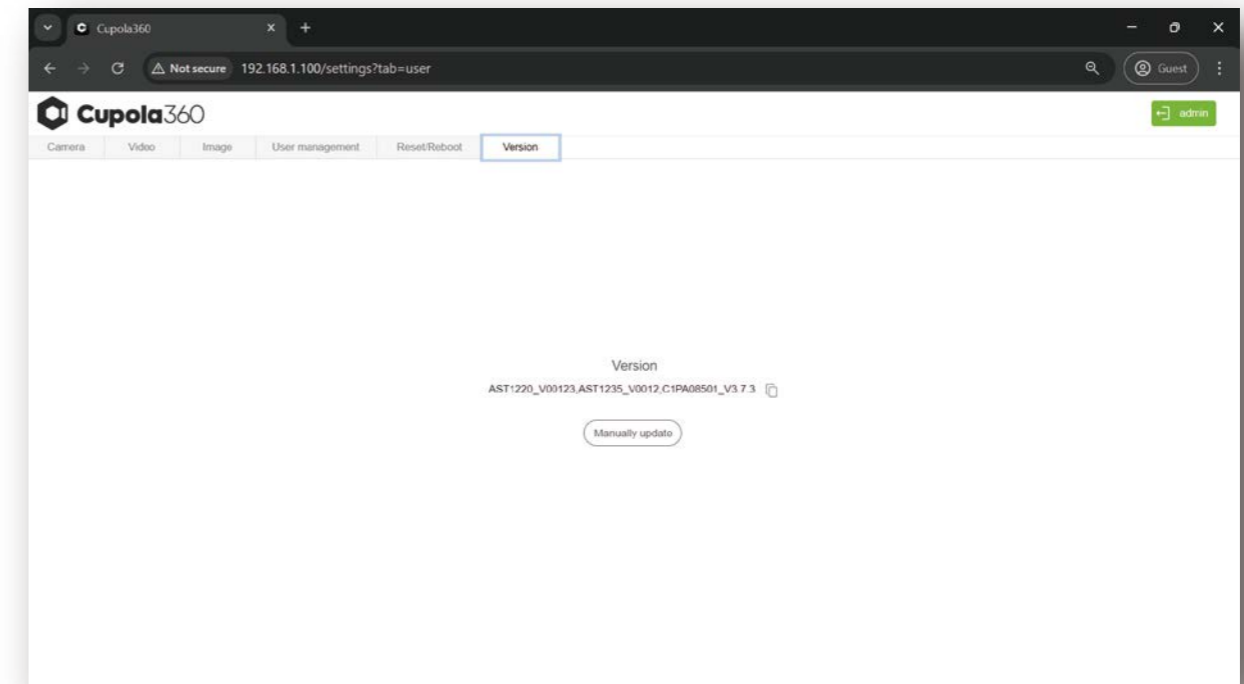
05 | Version

Displays the camera version.

► Manually update

Upload the three files provided by the vendor.

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



	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 0.5 sec	1235 firmware upgrade

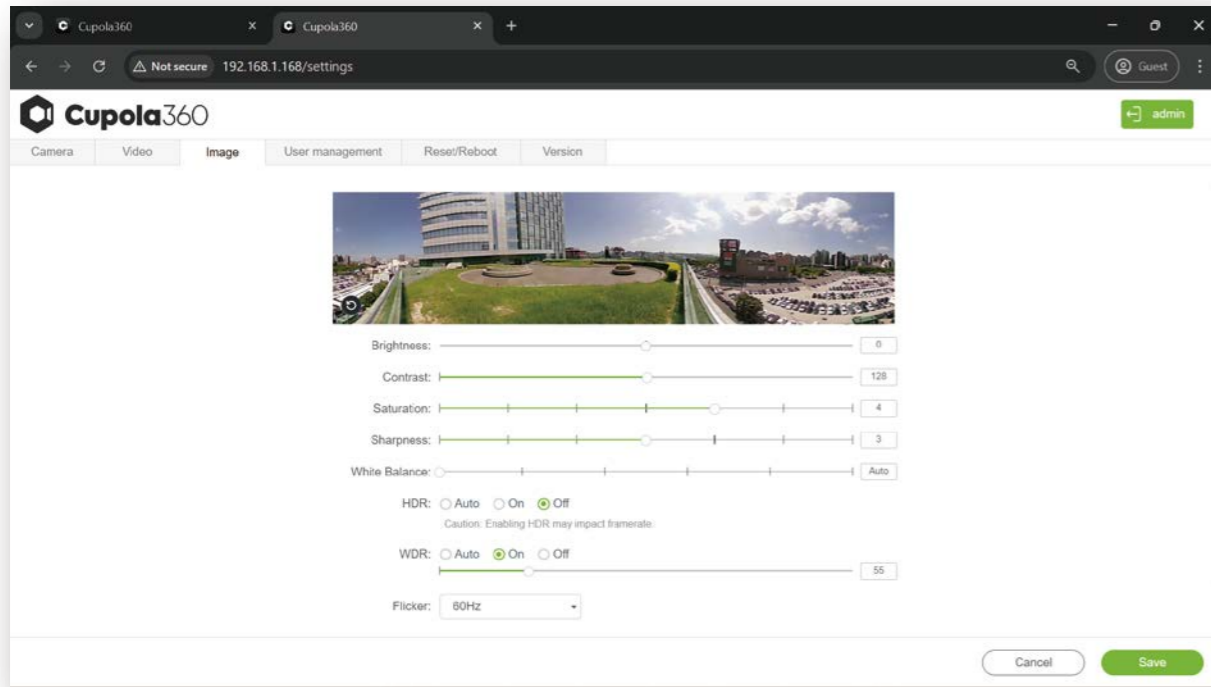
05

360 IP CAM WEB PAGE CONFIGURATION INSTRUCTIONS

360 IP CAM Web Page Configuration Instructions

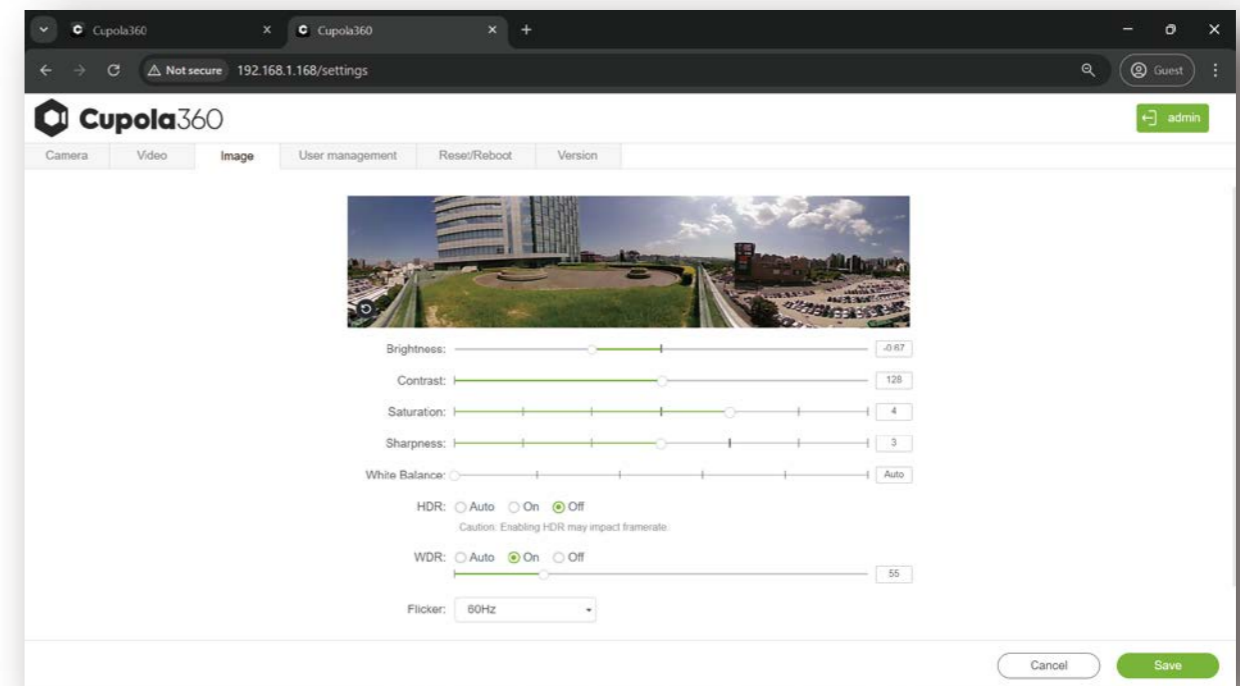
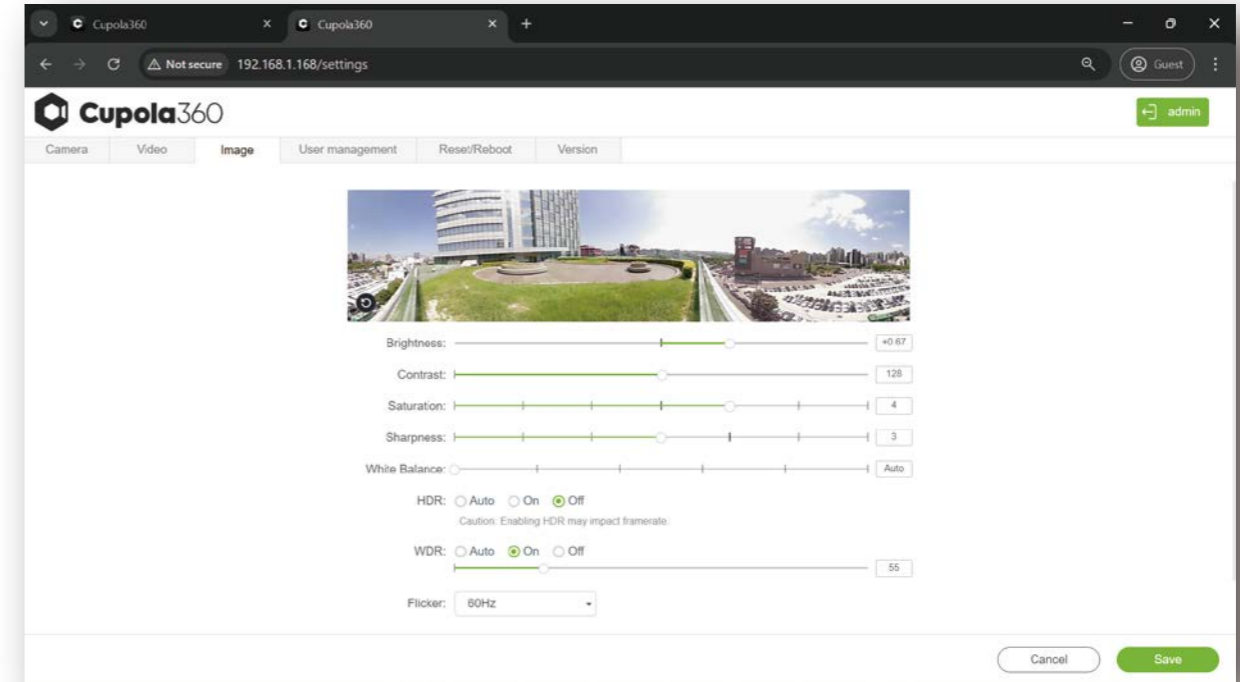
► Accessing the Camera Web Page

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

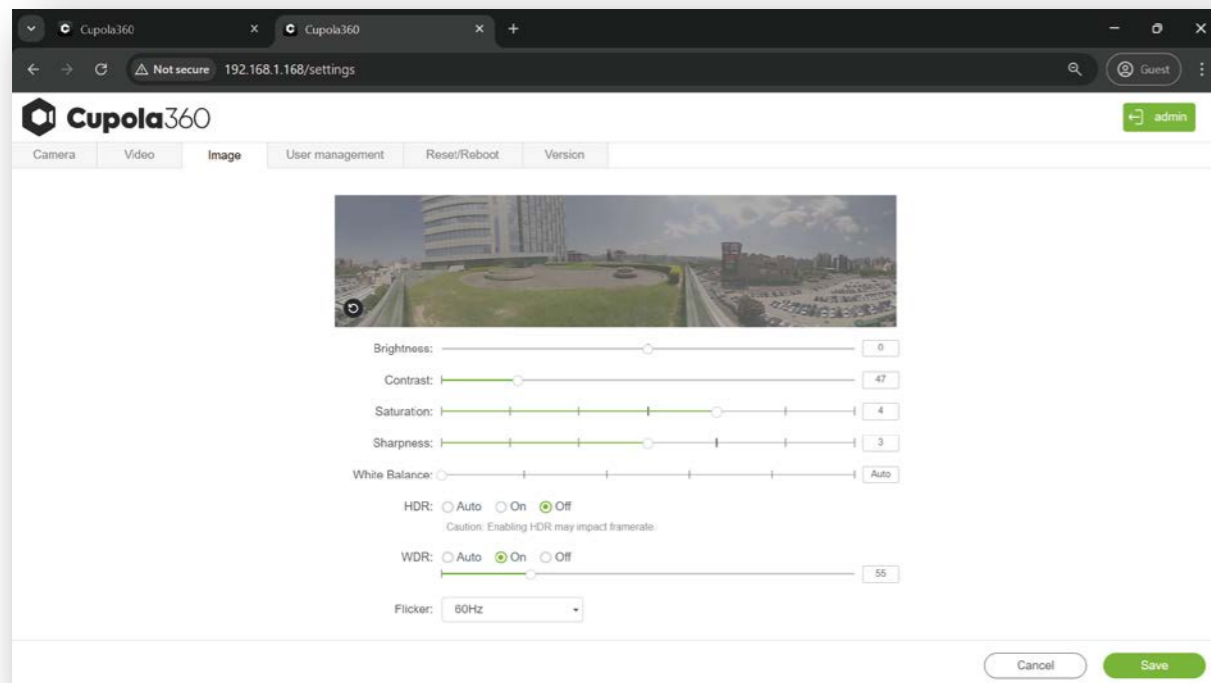
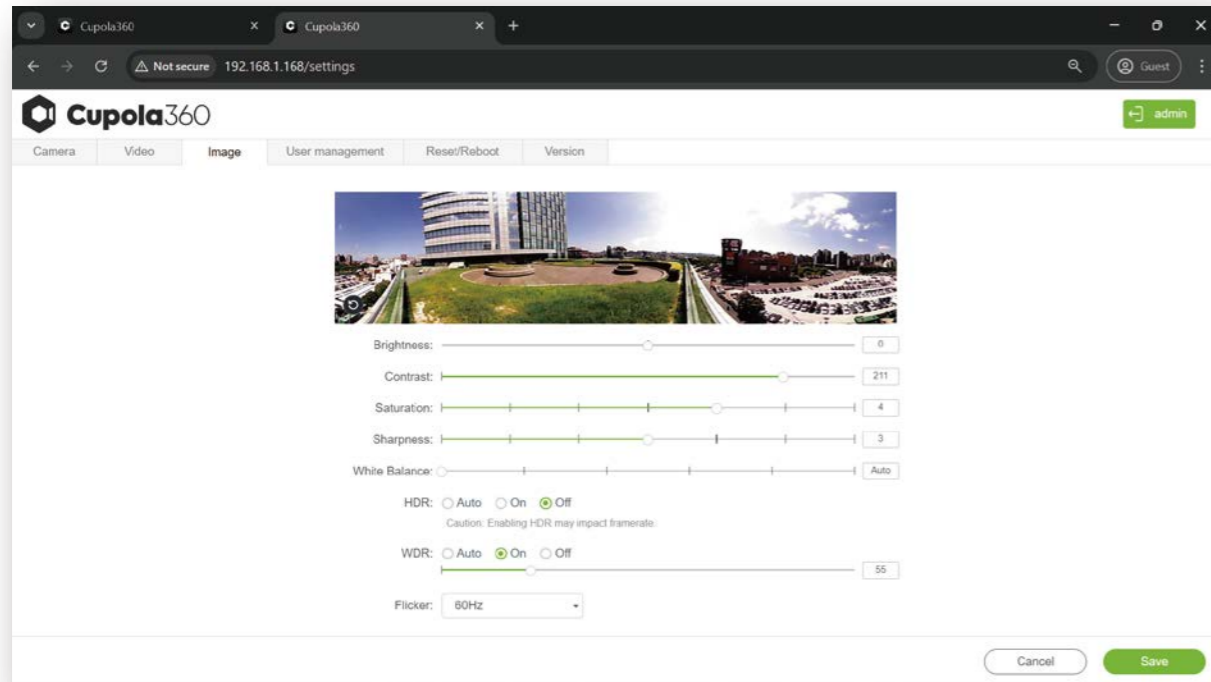


► Tuning instructions

01 | Brightness

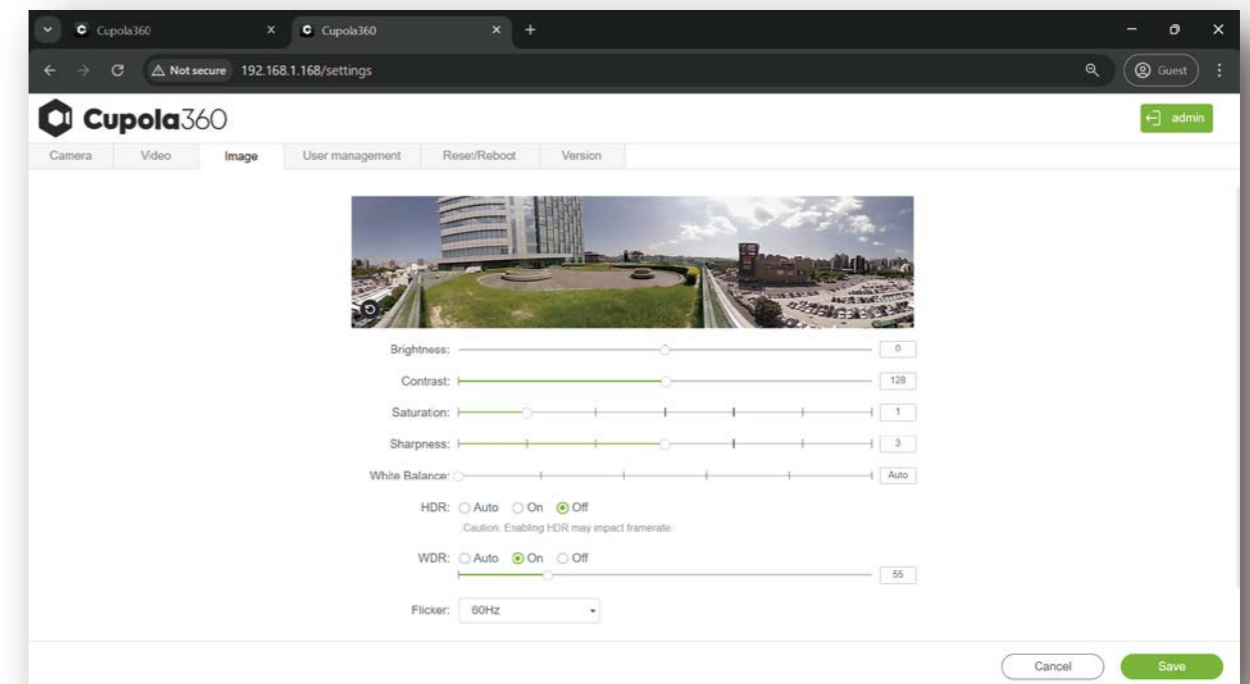
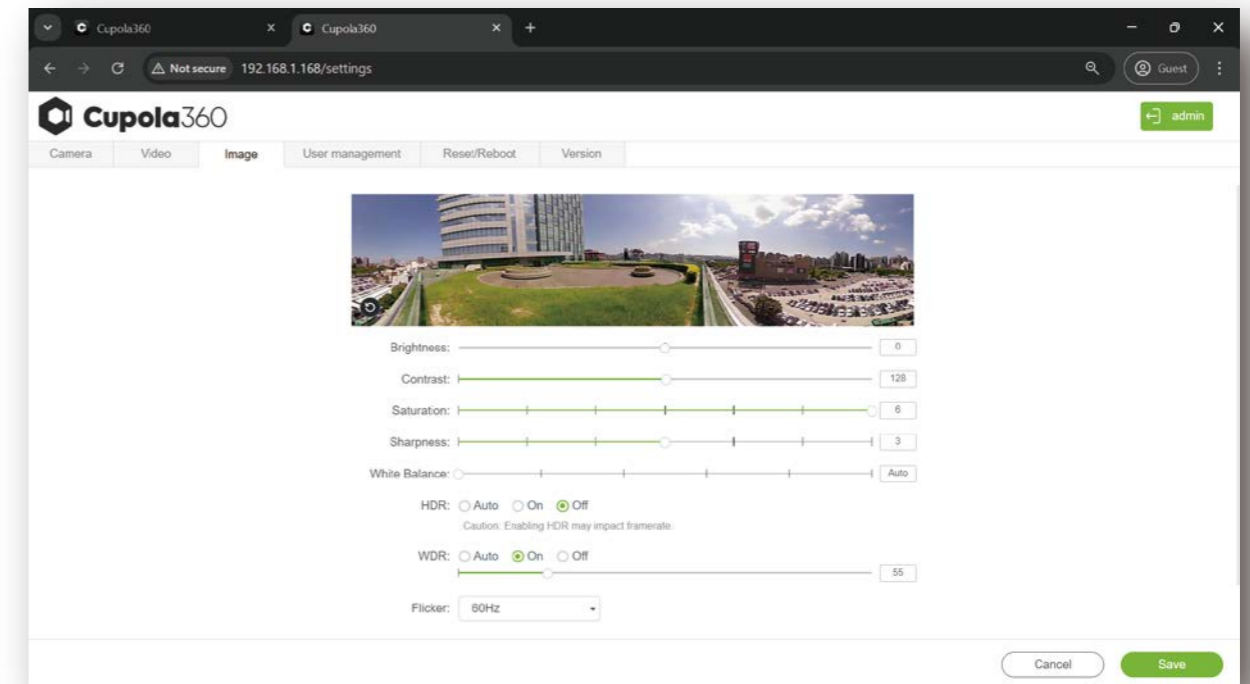


02 | Contrast



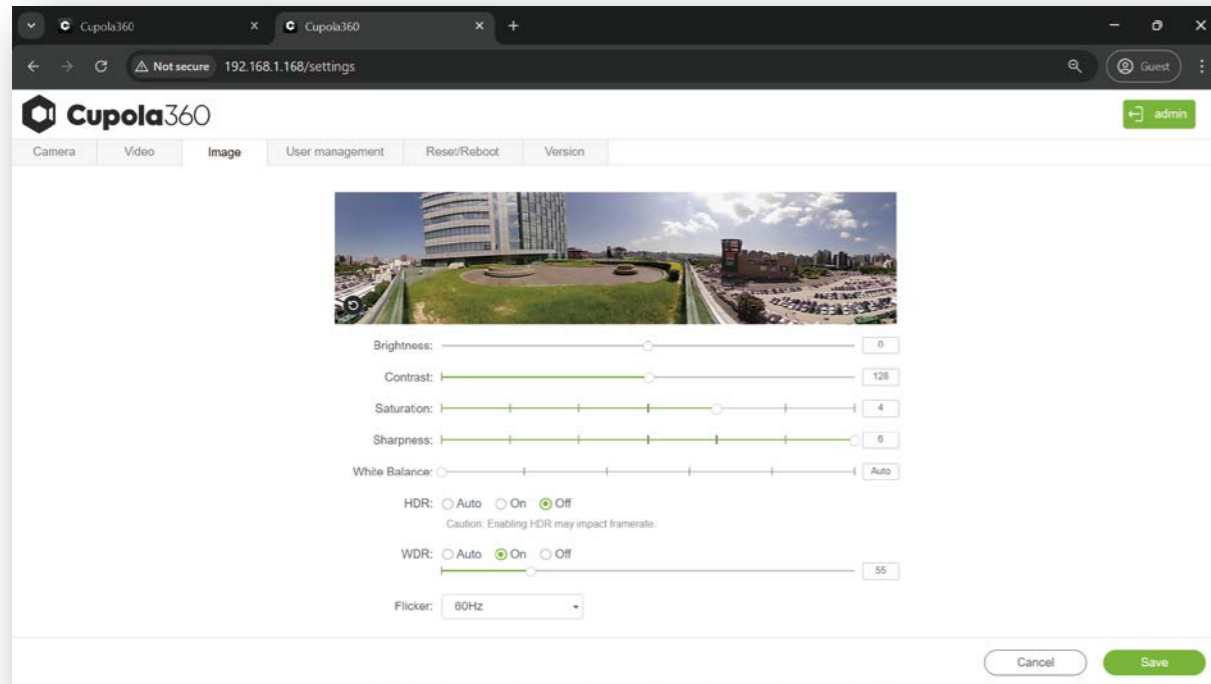
03 | Saturation

- Saturation corresponds to the vividness of image colors.
- Users can adjust it according to their subjective preferences.



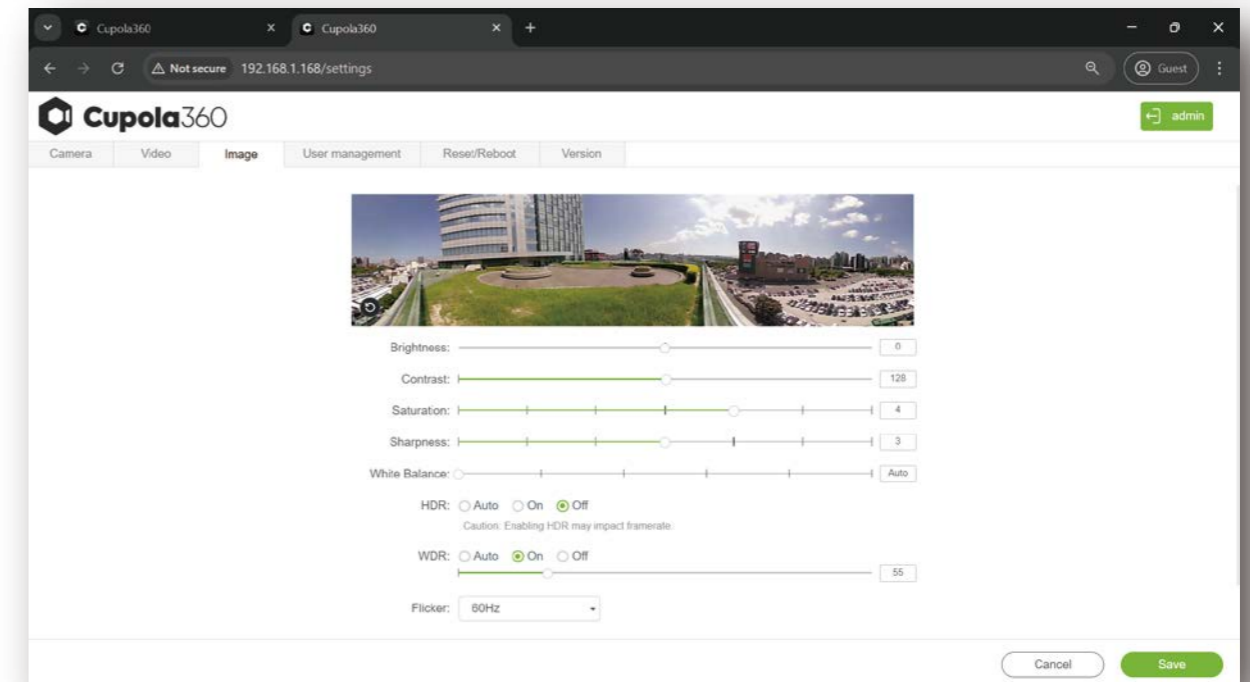
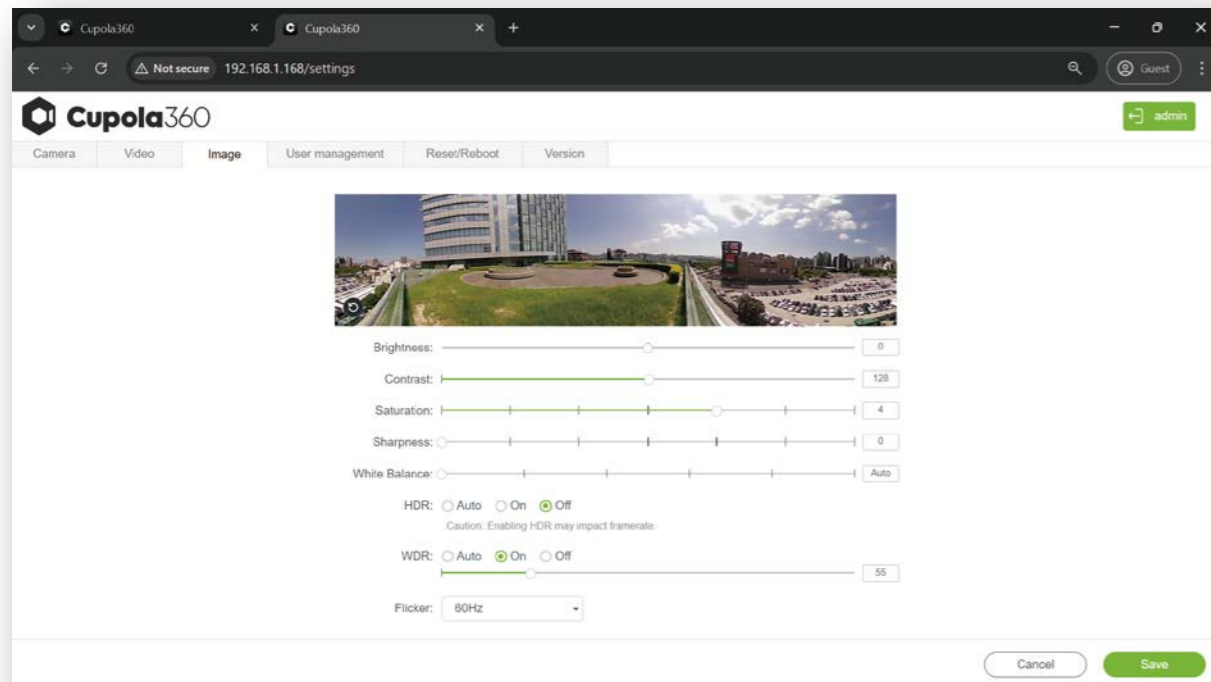
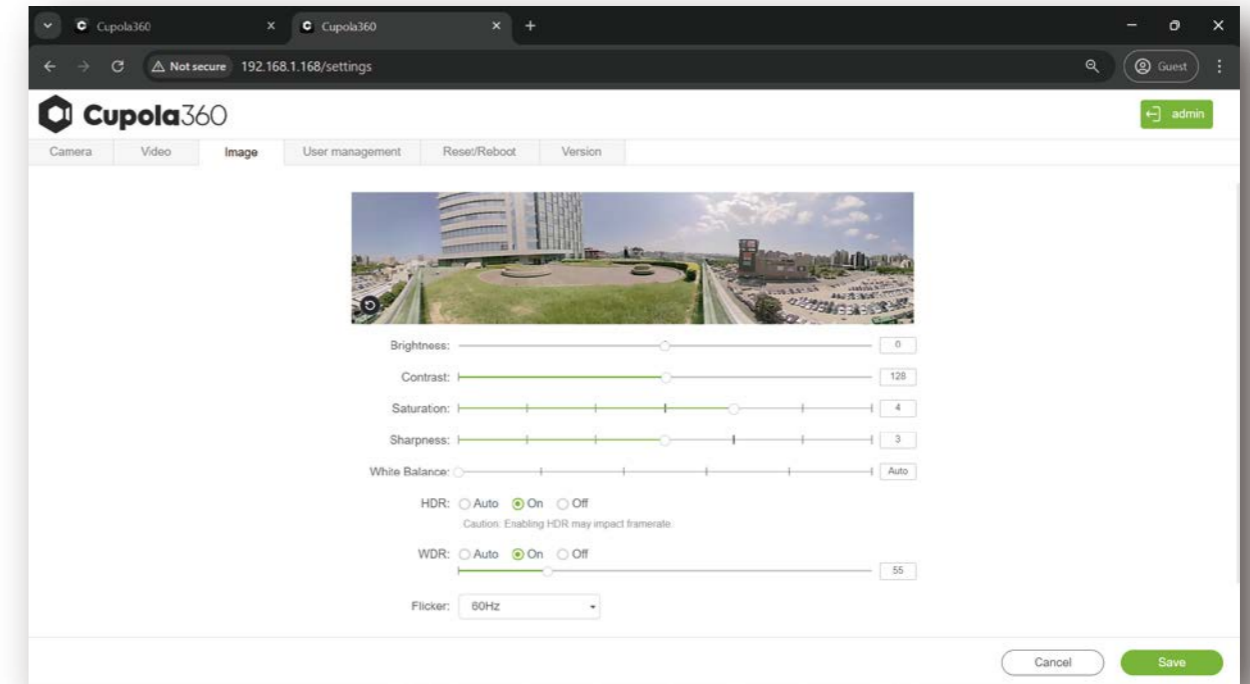
04 | Sharpness

- Adjusts the sharpness of edges in the image.
- Note: Setting it to 0 will disable edge enhancement (Enhance off).



05 | HDR

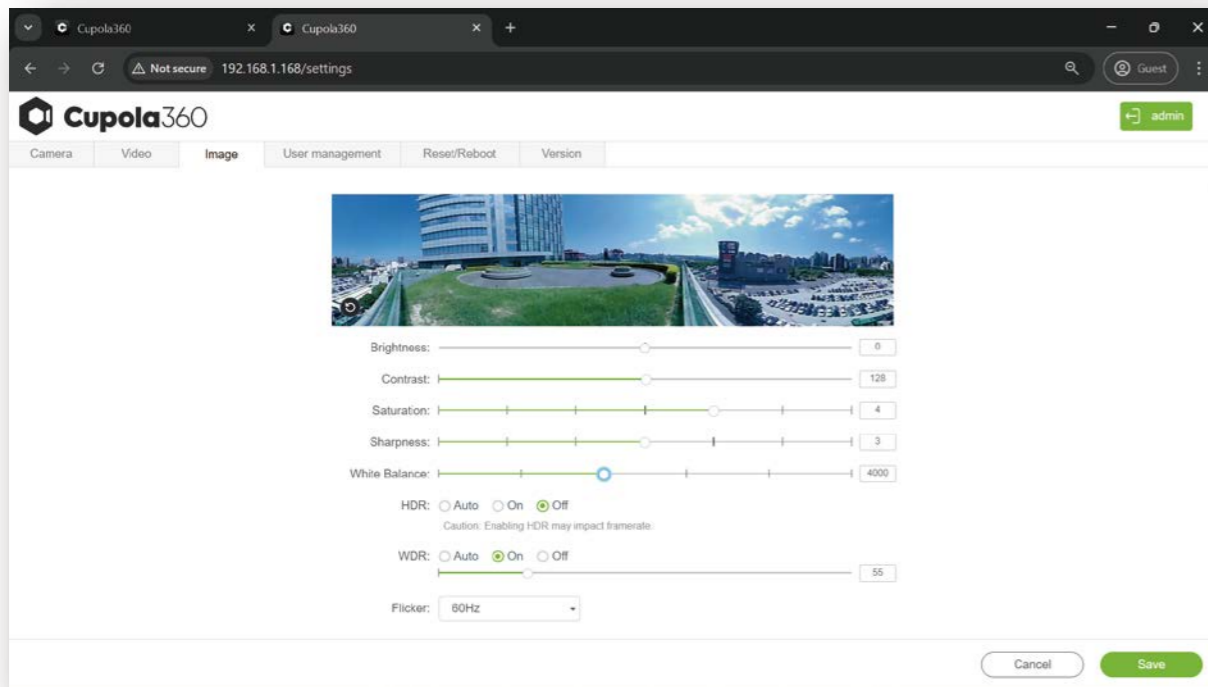
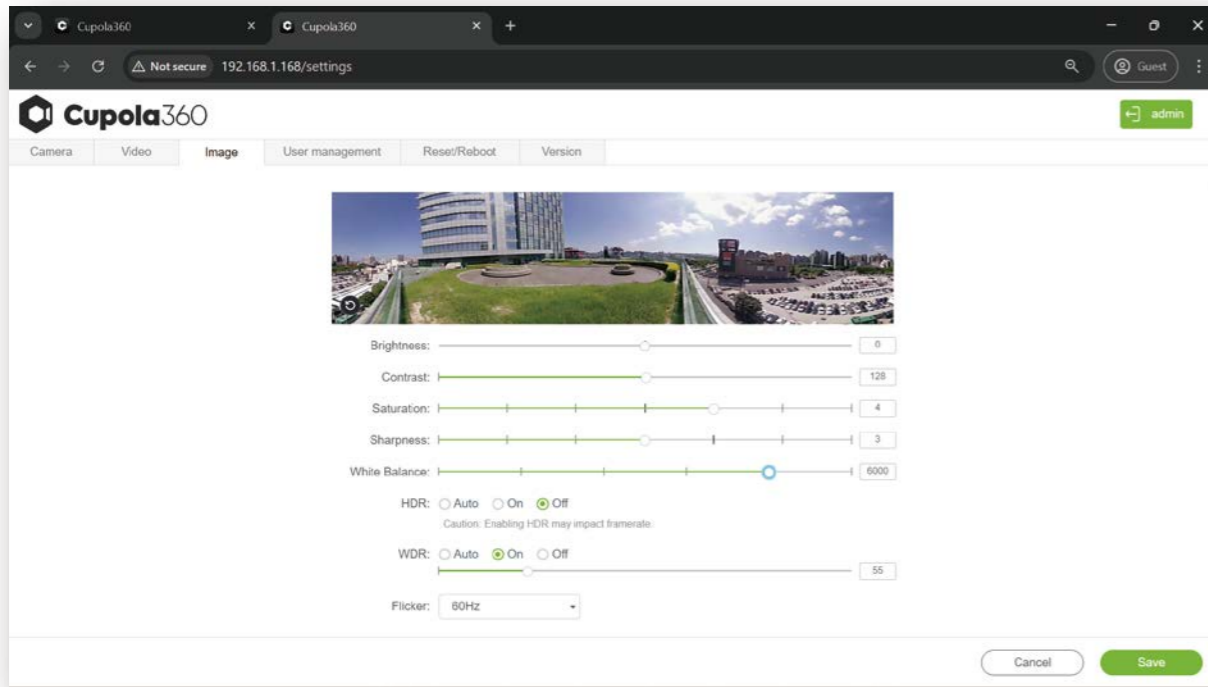
- For high dynamic range scenes, it is highly recommended to enable HDR.
- HDR helps to avoid overexposure and underexposure in images.



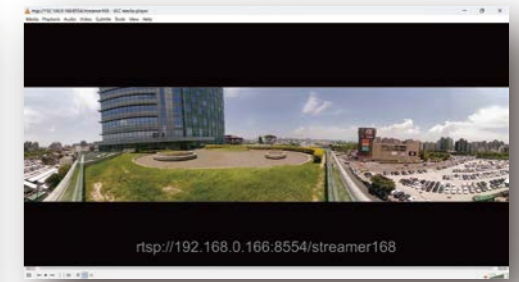
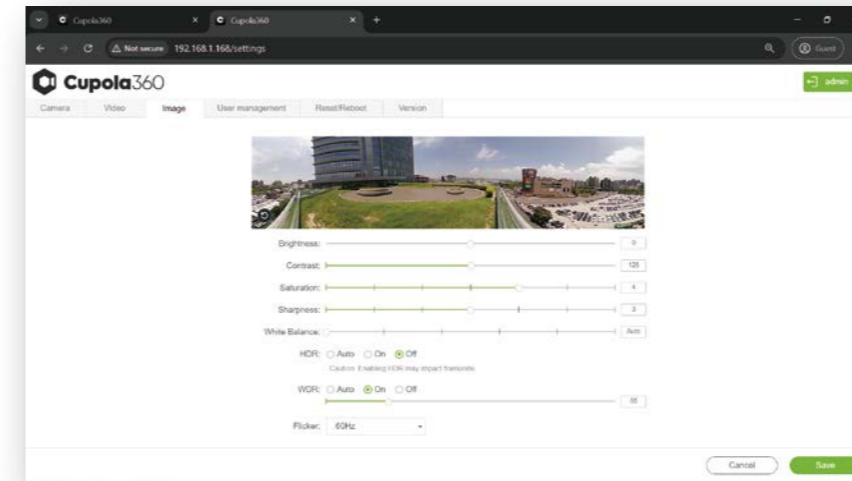
Appendix: Web UI adjustment result

06 | White Balance

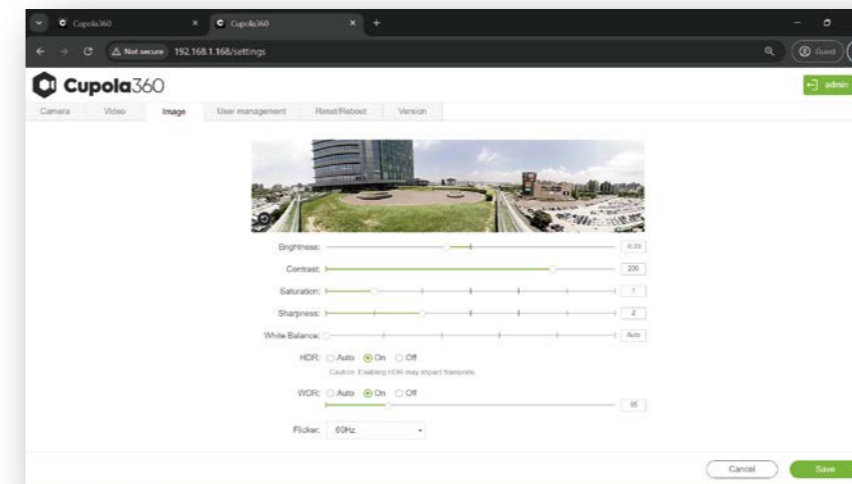
- Manual white balance allows users to change the color tone.
- Adjust according to personal preferences.



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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User Manual

07

TROUBLESHOOTING

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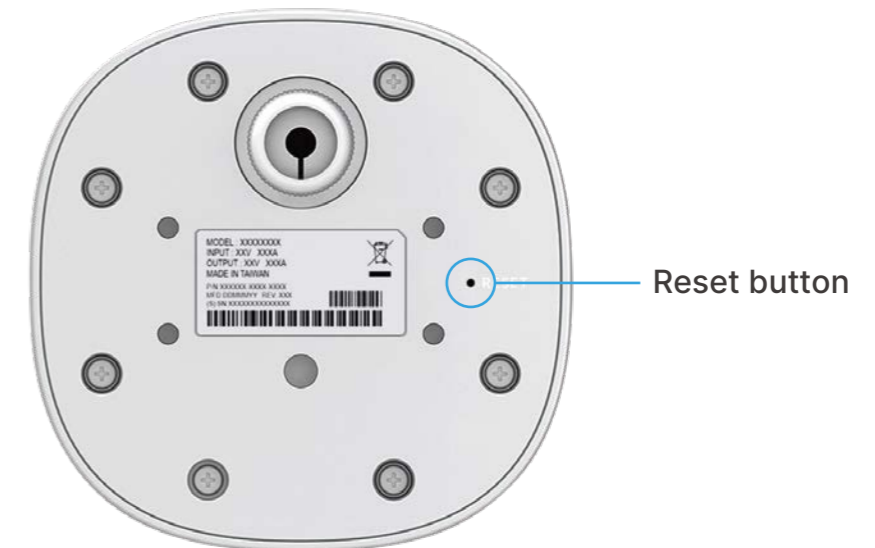
Troubleshooting

How to perform a system reset?

Answer:

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

- ▶ **Step 1**
Press and hold the Reset button.
- ▶ **Step 2**
The LED will change to yellow. Keep holding until the LED starts flashing yellow.
- ▶ **Step 3**
Release the button immediately once the yellow flashing begins.
Result ⇒ The system will enter the reset process.



08

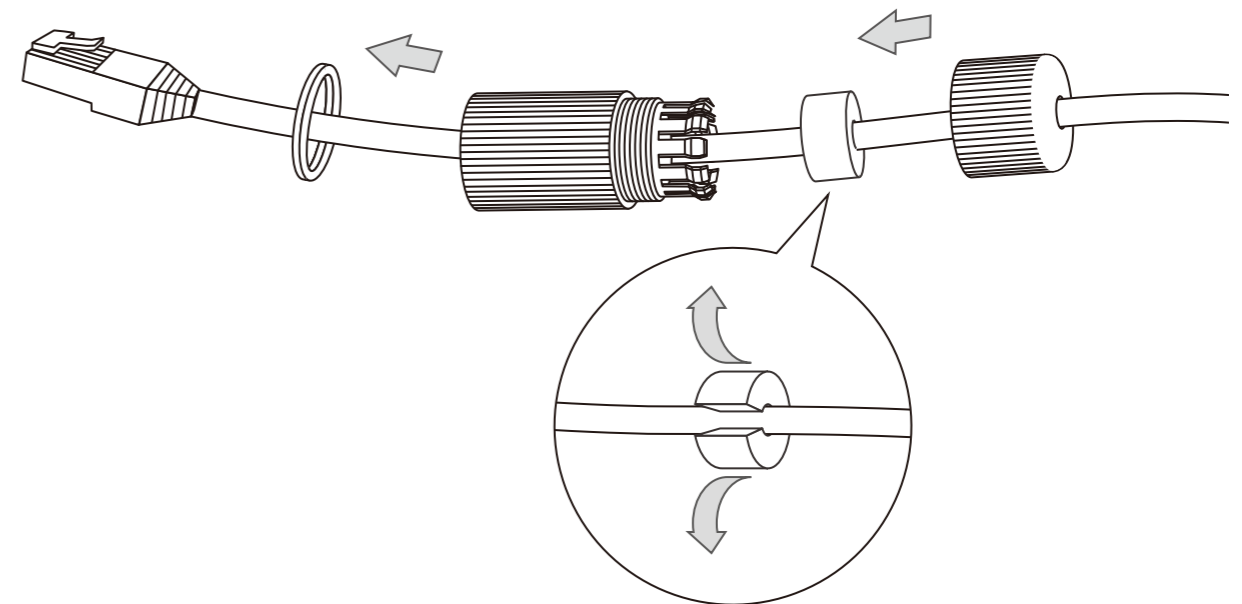
INSTALLING THE WATERPROOF CABLE GLAND

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User Manual

Installing the Waterproof Cable Gland

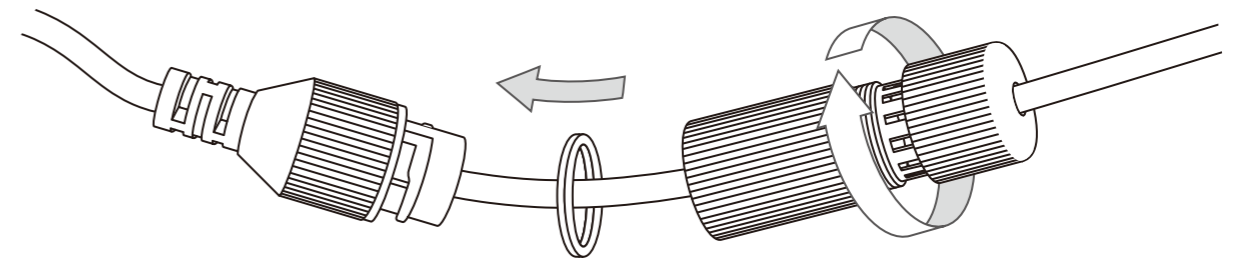
► Step 1

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 5.5mm and 5.5mm.
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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User Manual

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.

