

Mini Bullet IP Camera

Quick Installation Guide

Quick Installation Guide

Please follow the installation steps below to set up your IP Camera.

Check the package contents with the list below. **See P.1**

Physical Overview. **See P.2**

I/O Terminal Block Circuit & I/O Terminal Block Pin Definition. **See P.3**

Position of SD card, video out and reset button. **See P.4**

Installation of hardware and connection of all cables. **See P.4~P.5**

MAC OS: using Safari Browser. **See P.6**

Z Plus. **See P.7~P.8**

Lighting environment.& Change the Web Interface into your preferred language

See P.9

Package Contents

Camera	IP Camera
Quick Installation Guide	Brief product information and quick installation
Accessory	Alignment Sticker Screw pack for wall and ceiling mounting Waterproof connector Terminal block 2 pin DC connector

Software

The following software and information are available online:

- Video Management Software
- Z PLUS
- User manuals
- Camera Language Packs

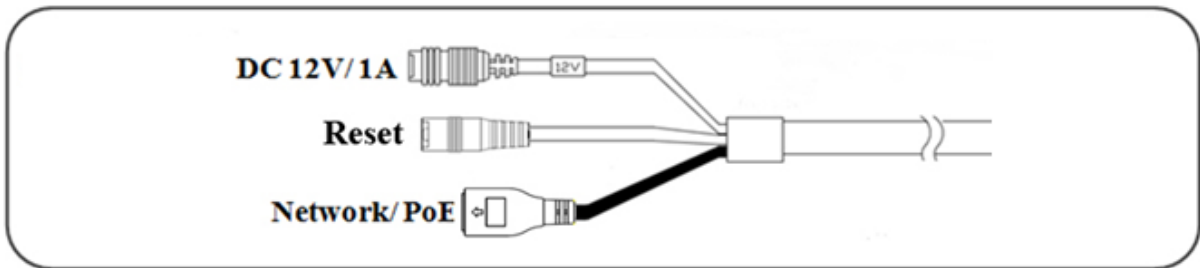
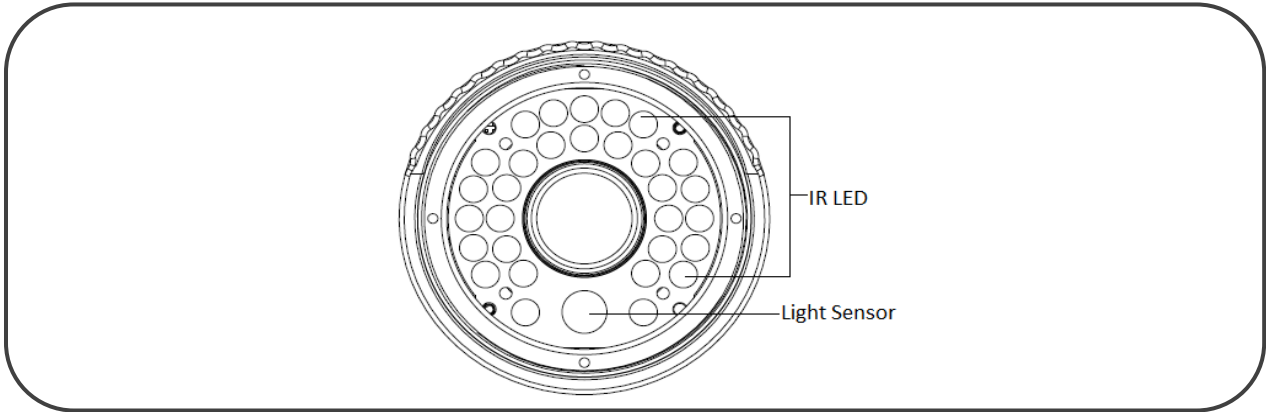
You may download the above at <http://www.zavio.com/downloads.php> or you may scan the below QR-Code.



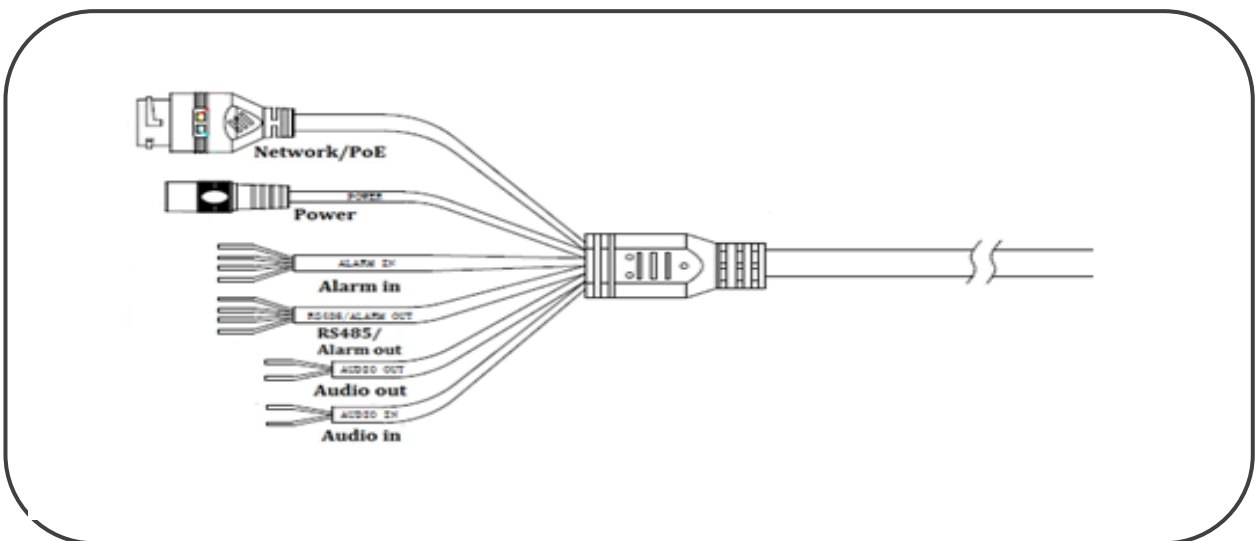
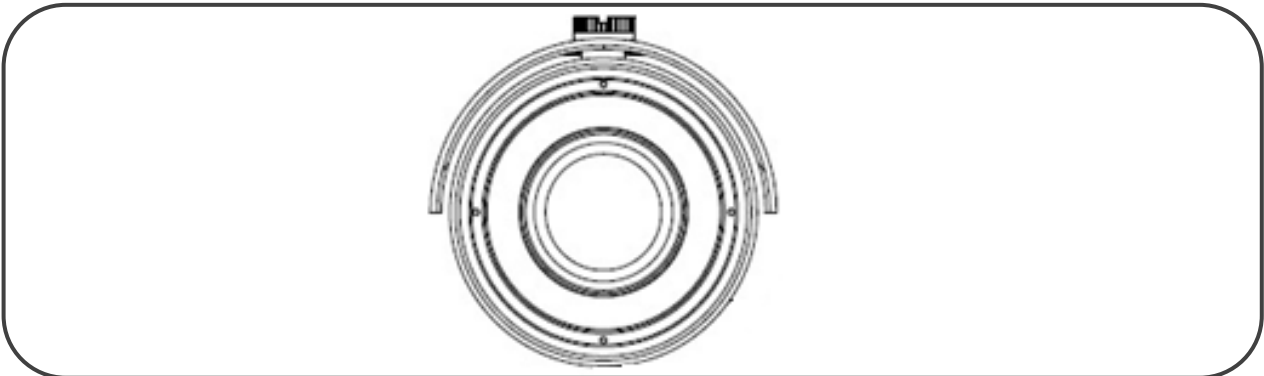
To activate Video Management Software, please contact with Zavio FAE (techsupport@zavio.com) to get the license key (Please provide camera's Model name/Serial number/MAC).

Physical Overview

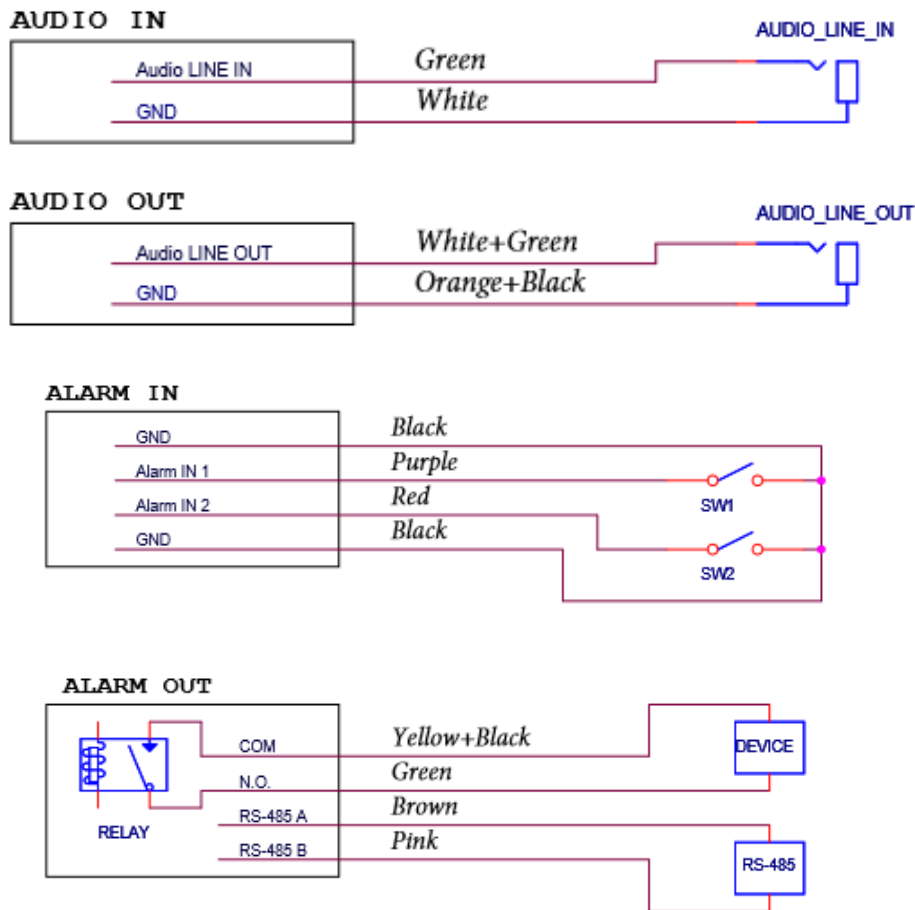
CB3210



CB3211



I/O Terminal Block Circuit



Note: Please use the supplied waterproof RJ45 connector and seal all connectors tightly to avoid moisture.

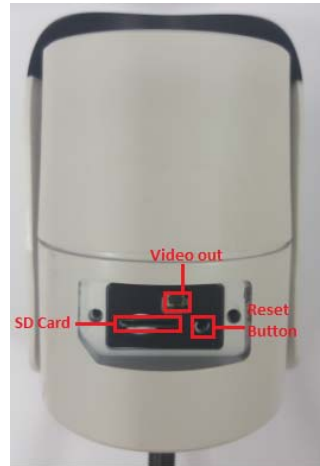
I/O Terminal Block Pin Definition

Pin Color	Definition	Description	Max. V/A
Green & White	Audio In	Connect the wires of the audio input device to GND (White) and AUDIO LINE IN (Green).	-
White+Green & Orange+Black	Audio Out	Connect the wires of the audio output device to GND (Orange+Black) and AUDIO LINE OUT (White+Green).	-
Purple & Black	Alarm In 1	Connect to GND to activate, or leave floating (or unconnected) to deactivate.	5V DC / 50mA
Red & Black	Alarm In 2	Connect to GND to activate, or leave floating (or unconnected) to deactivate.	5V DC / 50mA
Yellow + Black & Green	Alarm Out	Relay contact output. Contact capacity with resistance load.	0.3A at 125V AC or 1A at 30V DC
Brown + Pink	RS-485	-	-

LED Indicator

LED	Color	Indication
Network	Green	Solid green when network is established.
	Orange	Blink orange when there is network activity.

SD Card & Reset button

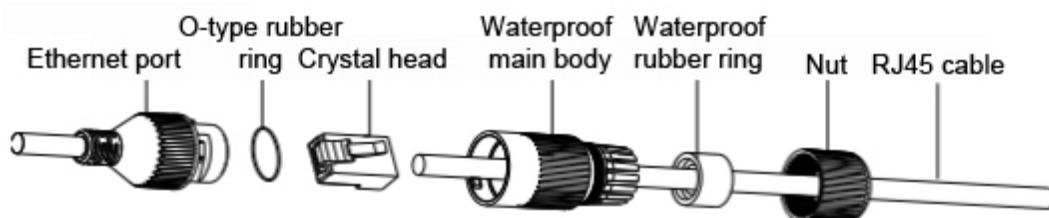


Reset: When the device is powered, press the Reset Button to reboot the device, or hold the Reset Button for 15 seconds to the settings back to factory default.

Install the hardware and connect all cables

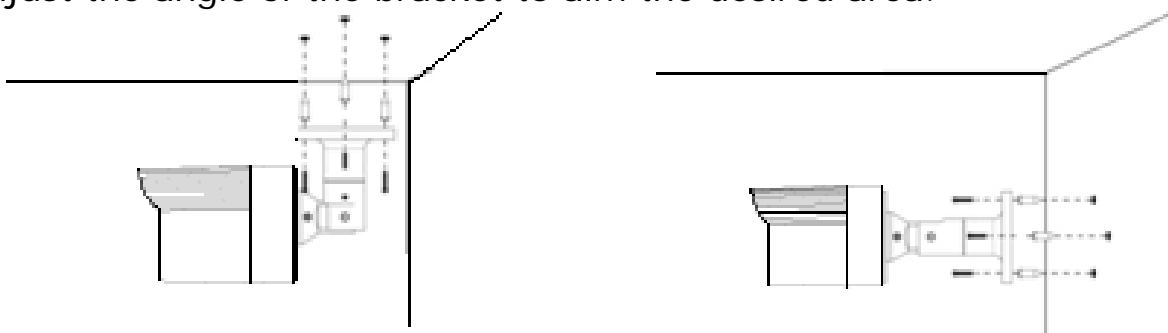
A. RJ45 waterproof connector

1. Make sure all components are assembled as shown on the below graph.
2. Check that the Ethernet Port and the Waterproof main body are tightly fasten.



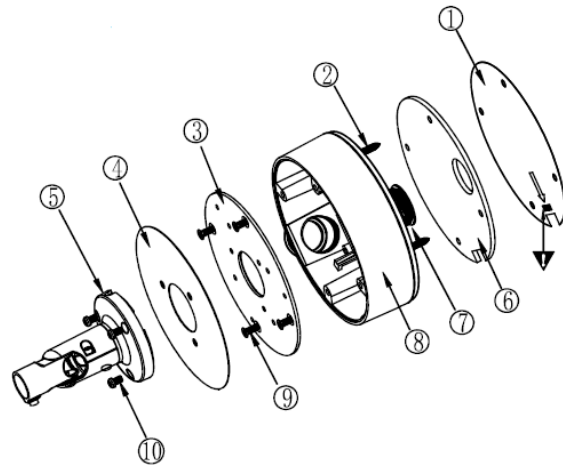
B. Wall mounting and Ceiling mounting

- 1) Attached the alignment sticker to the wall. Drill four holes into the wall. Then hammer the supplied plastic anchors into the screw holes and secure the bracket with supplied screws.
- 2) Adjust the angle of the bracket to aim the desired area.



C. Junction box AZ-J01 (optional accessory)

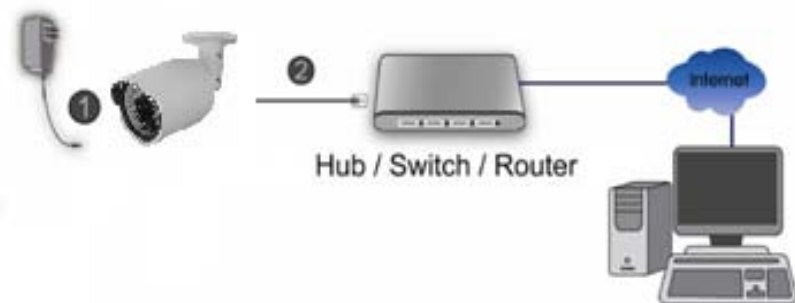
1. Install sticker
2. Wall screw
3. Adapter plate
4. Adapter plate sticker
5. Bracket and camera
6. Foam pad
7. Stopper
8. Cable box
9. Sink head screw
10. Flat head screw



D. Connect all cables

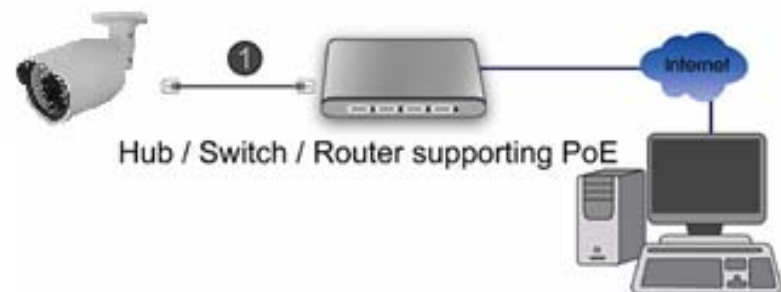
D1. Without Power over Ethernet (PoE) connection

1. Connect the power adaptor to the IP Camera.
2. Use a standard RJ-45 network cable and connect the IP Camera to a hub/switch/router.



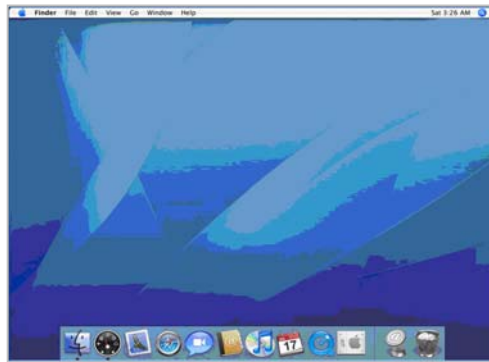
D2. Power over Ethernet (PoE)

1. Use a standard RJ-45 network cable and connect the IP Camera to a PoE-enabled hub/switch/router.

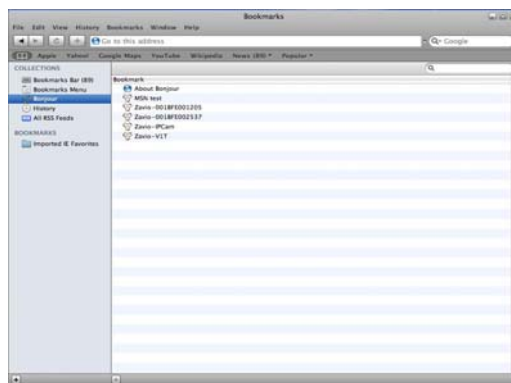


MAC OS using Safari Browser

1. Select **Safari Icon**



2. Click **Bonjour function** and select the camera you wish to access.



3. Enter name and password to login to the IP camera (Default is admin / admin)



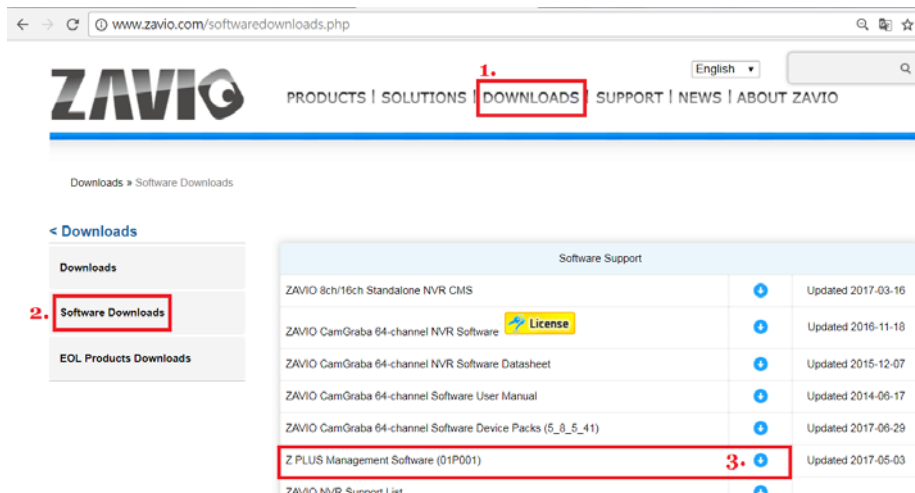
4. Live video will display in the center of your web browser



Z Plus

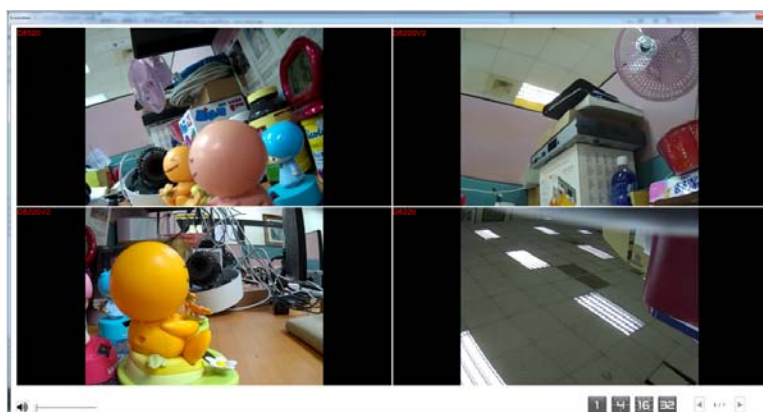
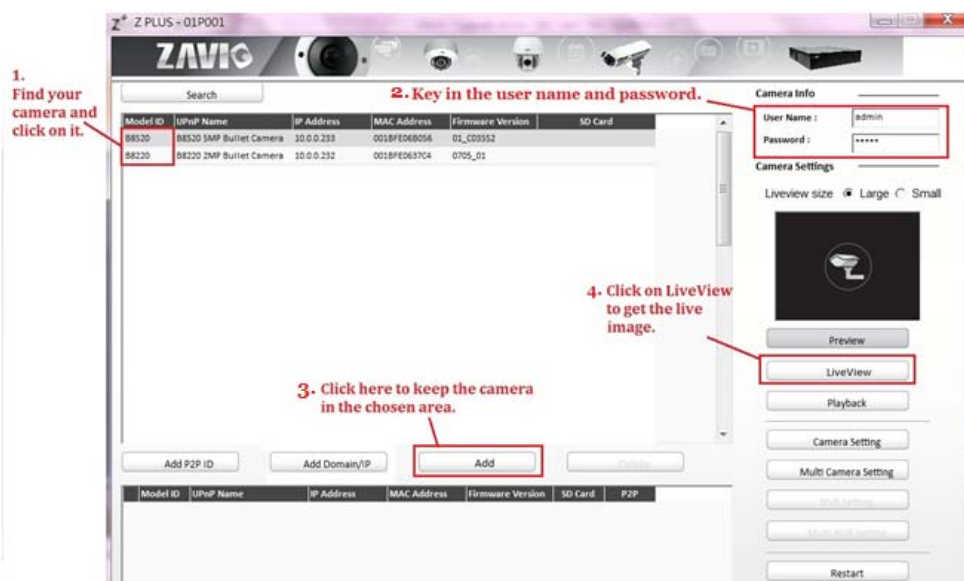
A. Get the image of camera with Z Plus.

1. Download Z Plus from ZAVIO official website..



2. Follow the instruction and install Z Plus.

3. Click the icon **Z+** and get into the software.



B. Camera setting

1. Choose the camera.

Model ID	UPnP Name	IP Address	MAC Address	Firmware Version	SD Card
B8520	B8520 5MP Bullet Camera	10.0.0.233	001BFE068056	01_C03552	
B8220	B8220 2MP Bullet Camera	10.0.0.232	001BFE0637C4	0705_01	

2. Key in the username and password.

Camera Info
 User Name : admin
 Password : *****

3. Click here to adjust camera setting.

Camera Settings
 Liveview size: Large Small

Buttons: Preview, LiveView, Playback, **Camera Setting**, Multi Camera Setting, NVR Setting, Multi NVR Setting, Restart

Information

- Information
- Camera
- Stream
- Event
- Network
- System

Product Information

Product Name	B8220 2MP Bullet Camera	Firmware Version	03_C014
Firmware Date	Fri Apr 14 17:25:38 CST 2017	Onvif Version	2.40
MAC Address	00:1BFE:00:30:22	Date Time	2017-08-17 14:31:25

Bandwidth Usage: Receiving = 126kbps transmitting = 147kbps
 Fan Status: [] Heating Status: []

Security

Video Connection	0	Account	1
Anonymous Viewer	on	HTTPS	Disabled
IP Address Filter	off		

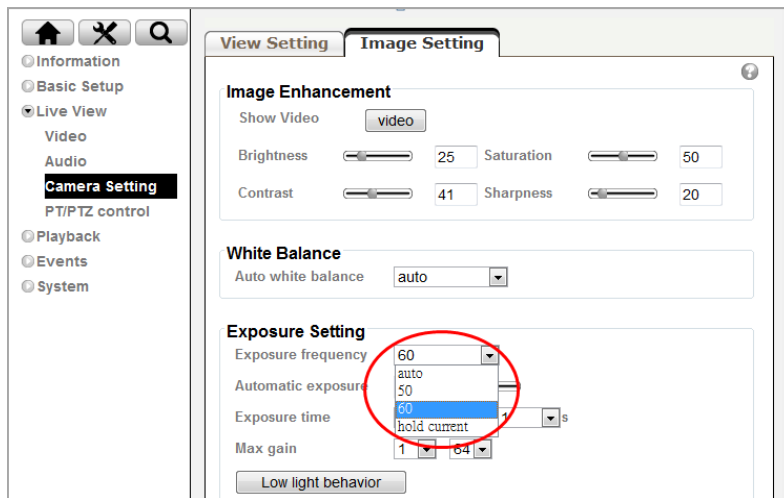
Network

TCP/IP	10.0.0.237	PPPoE	no
UPnP	on	Bonjour	yes
HTTP Port	80	System Log Port	514
RTSP Port	554	SSL Port	443
RTSP Port Range	5000 - 7999		

RTSP Configuration: Configuration: video.pro1, Authentication: anonymous
 RTSP Configuration: Configuration: video.pro2, Authentication: anonymous
 RTSP Configuration: []
 RTSP Configuration: []

Lighting environment setting

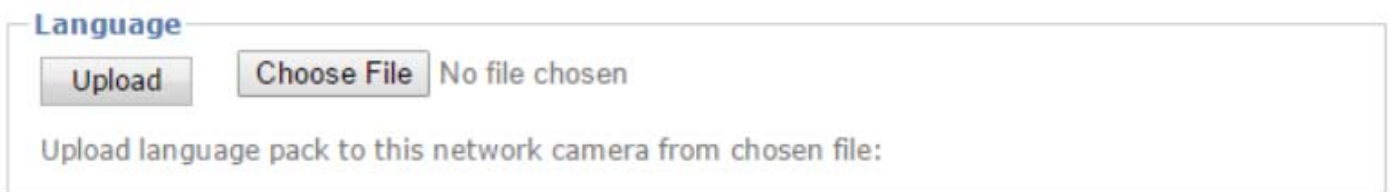
Default setting for lighting environment is Auto. You may change exposure frequency to 50 or 60 Hz at *Setting > Live View > Camera Setting > Image Setting*.



Change the Web Interface into your preferred language

Before accessing the Setting page to change the language of the web interface, you must download the language pack.

1. Go to <http://www.zavio.com/downloads.php> and download the language pack corresponding to your IP camera model.
2. Go to the IP camera setting page and upload the preferred language from the language pack downloaded from step 1.
Setting > System > Maintenance > Language > Upload



3. Once the upload is complete, the browser will automatically change the language.