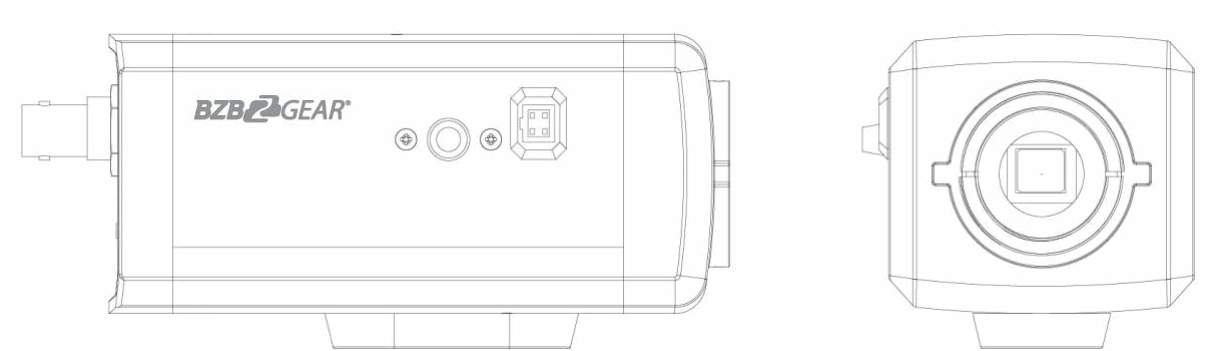




BG-BFS

User Manual



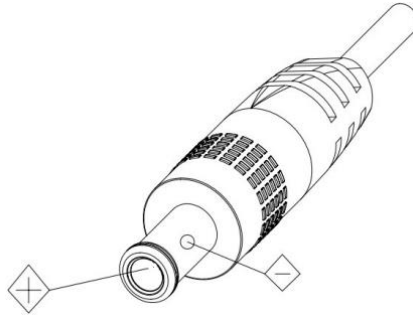
Attention

Electrical Safety

Installation and operation must be performed in accordance with local safety standards.

Polarity of power supply

The power supply of the product is DC 12V and following is the polarity of the power supply drawing.



Handle with care

Never move the camera by seizing the camera head. Never rotate camera head by hand, mechanical damage will occur.

Never power on before installation is completed.

Do not disassemble camera

We are not responsible for any unauthorized modification or dismantling.

Attention:

Electromagnetic fields may affect camera image!

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1. FAST INSTALLATION

1.1 Camera Interface Explanation

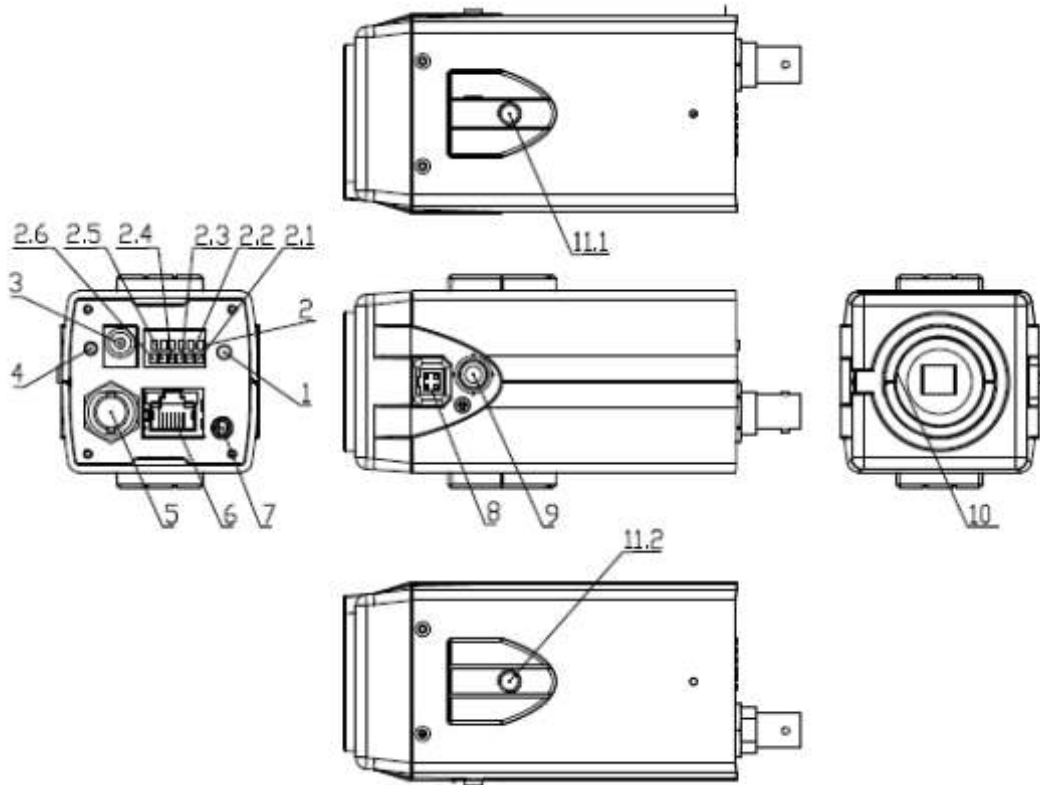


Figure 1.1

- | | | |
|--------------------------|------------------------------|------------------------------|
| 1. RESET | 2. RS485 and alarm interface | 3. DC12V Power Supply Socket |
| 4. Power Indicator | 5. 3G-SDI Interface | 6. Network Interface |
| 7. Audio Input Interface | 8. Auto Iris Interface | 9. Function Key |
| 10. Lens Interface | 11.1. Tripod screw hole | 11.2. Tripod screw hole |

1.2 Power on

Power on: connect DC12V power supply adapter. Then the power indicator light on and it is always mode.

1.3 Video output

- 1) Video output from LAN
 - a. Network cable connection port: No.6 in above Figure
 - b. Webpage Login: open your browser and enter 192.168.5.163 in the address bar (factory default); press Enter to enter into the login page; click on the "player is not installed, please download and install!" and follow the installation steps

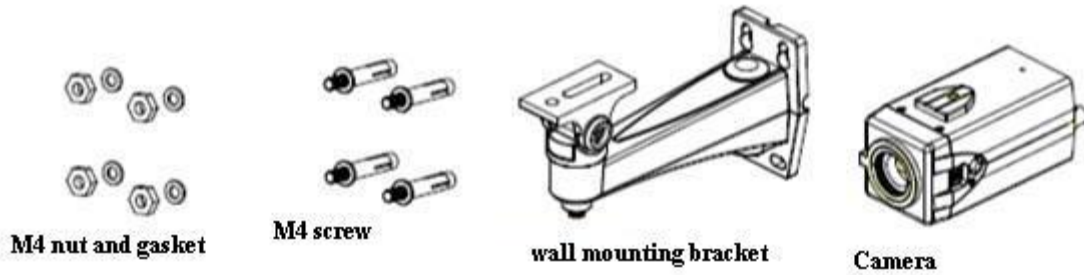
for installation. Then enter the username *admin* and password *admin* (factory default); press Enter to enter into the preview page, users can carry out PTZ control, video recording, playback, configuration and other operations.

2) 3G-SDI video output

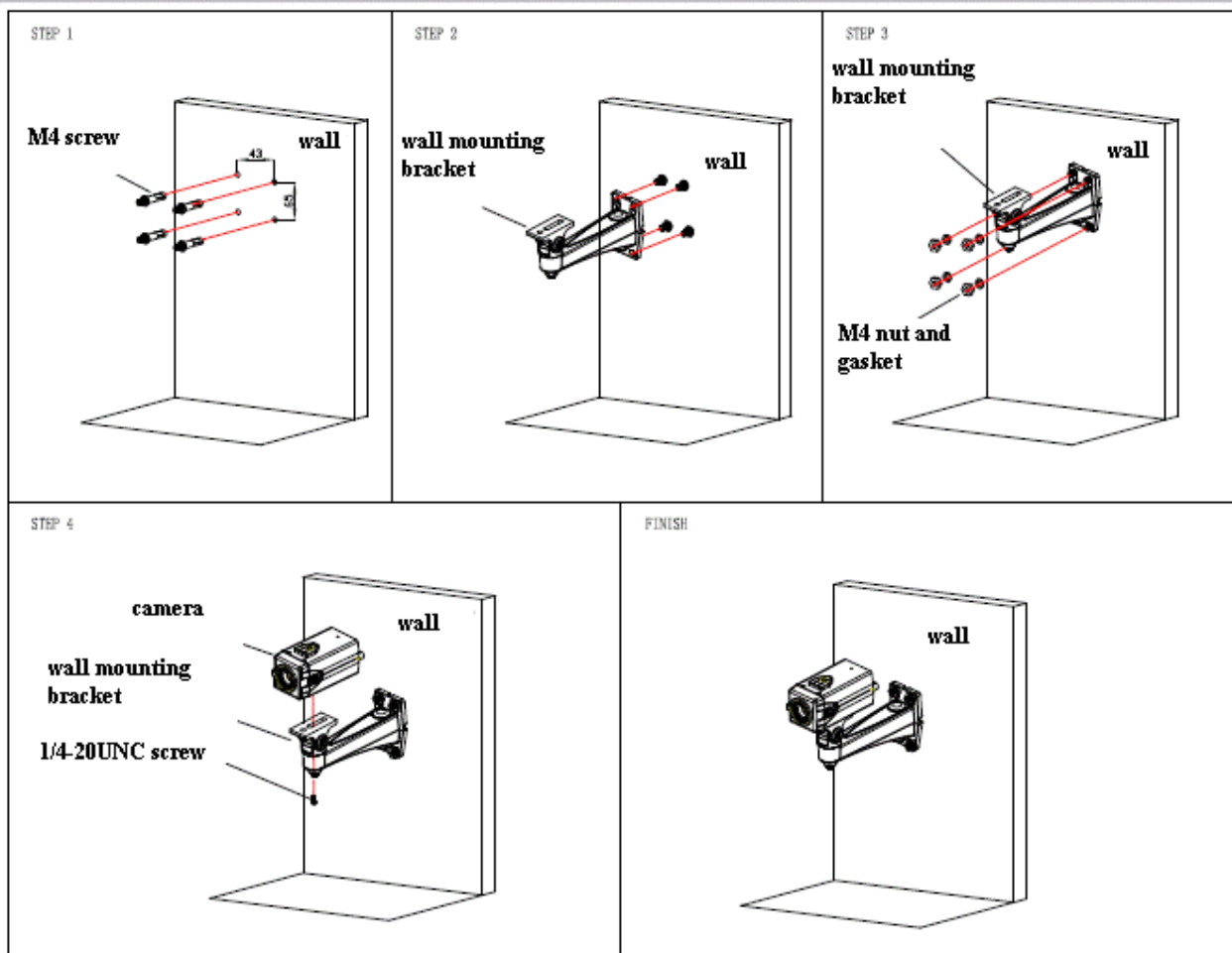
- a. 3G-SDI video cable connection: S model refer to No5 in above Figure.
- b. Connect the camera and the monitor via 3G-SDI video cable; video output is available after camera power on.

1.4 BRACKET MOUNTING

1) Bracket installation accessory introduction



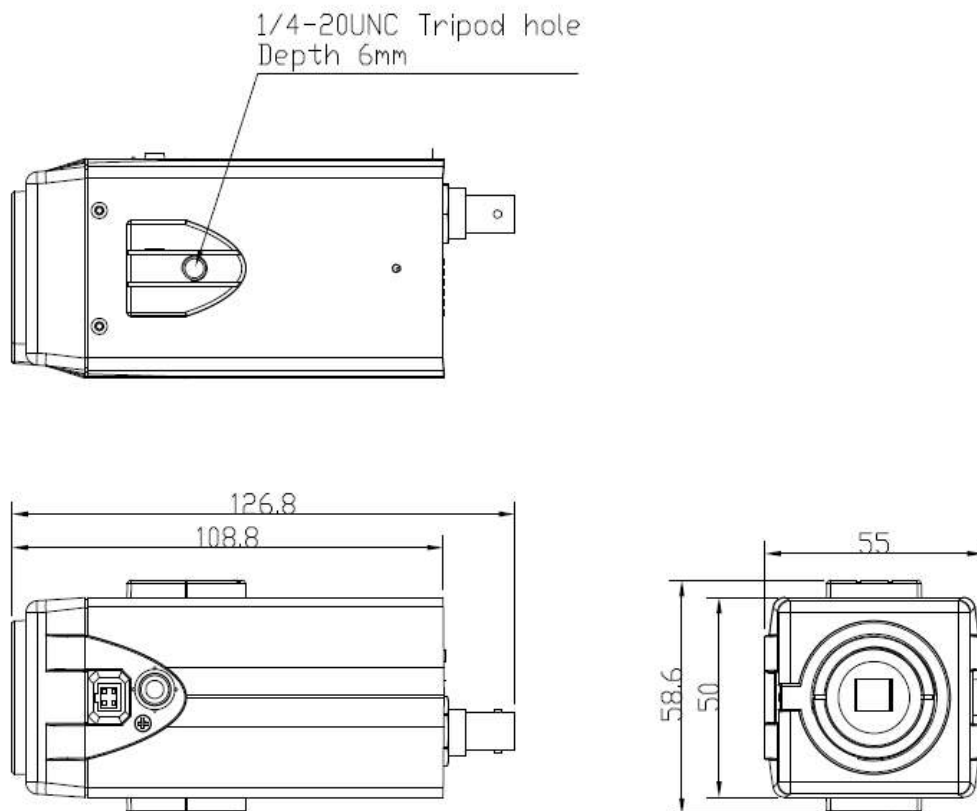
2) Bracket installation steps



2. Product overview

2.1 Product introduction

2.1.1 Dimension



2.1.2 Accessories

Accessories	Power adapter
	User manual
	Warranty card

2.2 Main Features

2.2.1 Camera performance

This camera features advanced ISP processing algorithms to provide vivid images with a strong sense of depth, high resolution and fantastic color rendition. It supports H.264/H.265 encoding which makes motion video fluent and clear even with less than ideal bandwidth conditions.

1. Superb high-definition image: It employs 1/2.8-inch high quality CMOS sensor. Resolution is up to 1920x1080 with frame rate up to 60 fps.

2. Low noise and High SNR: Low Noise CMOS effectively ensure high SNR of camera video.

Advanced 2D/3D noise reduction technology is also used to further reduce the noise, while ensuring image sharpness.

3. Multi-Format Video Outputs: support 3G SDI and LAN interfaces

The 3G-SDI is available for 100m transmission at 1080p60 format.

4. Multiple Video compression: Support H.264/H.265 video compression; Support compression of resolution up to 1920x1080 with frame up to 60 fps and 2 channel 1920x1080p with 30 fps compression.

5. Multiple network protocol: Support ONVIF, RTSP, RTMP protocols and RTMP push mode, easy to link streaming media server (Wowza, FMS)

6. Support Multiple Control Protocol: Support VISCA, PELCO-D, PELCO-P protocols which can also be automatically recognized. Support VISCA control protocol through IP port.

7. Wide application:

Tele-education, lecture capture, Webcasting, Videoconferencing, Tele-training, Tele-medicine, Interrogation and Emergency command systems.

2.2.2 Network performance

1. Audio Input Interface: Support 16000,32000,44100,48000 sampling frequency and AAC, MP3, PCM audio coding.

2. Multiple Audio/Video compression: Support H.264/H.265 video compression; AAC, MP3 and PCM audio compression; Support compression of resolution up to 1920x1080 with frame up to 60 fps and 2 channel 1920x1080p with 30 fps compression.

3. Multiple network protocol: Support ONVIF, RTSP, RTMP protocols and RTMP push mode, easy to link streaming media server (Wowza, FMS)

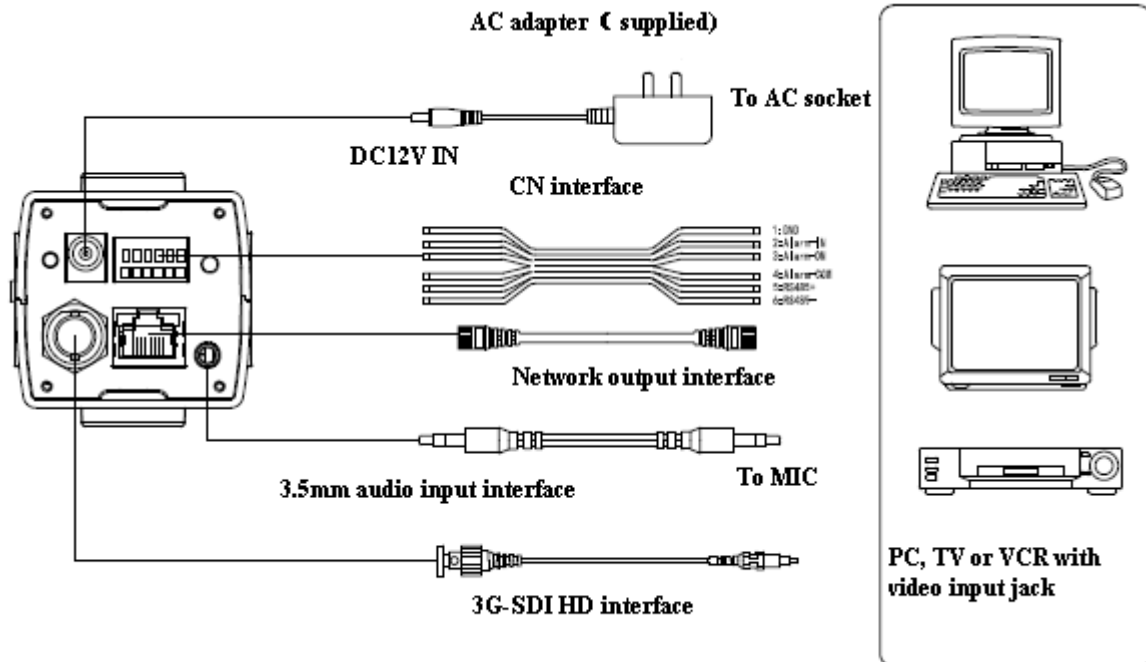
2.3 Technical specification

Model	
Camera Parameter	
Sensor	1/2.8-inch high quality HD CMOS sensor
Effective Pixels	16: 9; 2.07 megapixel
Video Format	1080P60/30/25/59.94/29.97 , 720P60/30/25/59.94/29.97
Auto Iris	DC driving mode
Digital Zoom	X5
Minimum Illumination	0.5Lux (F1.8, AGC ON)
DNR	2D & 3D DNR
White Balance	Auto/Manual/One Push/ 3000K/ 4000K/5000K/6500K
Focus	Auto/Manual
Aperture	Auto/Manual
Electronic Shutter	Auto/Manual
BLC	ON/OFF
WDR	OFF/ Dynamic level adjustment
Video Adjustment	brightness, color, saturation, contrast, sharpness, B/W mode, gamma curve
SNR	>55dB
Input/output Interface	
Video Interface	3G-SDI
Image Code Stream	Dual streams output
Video Compression Format	H.264/H.265
Control Interface	RS-485
Control Protocol	VISCA/Pelco-D/Pelco-P; Baud Rate: 115200/9600/4800/2400bps
5 Control Keys	UP/DOWN/LEFT/RIGHT/CONFIRM keys for OSD setting, EPTZ controlling
HD IP Interface	100M IP port (10/100BASE-TX), Support VISCA protocol control through IP port.
Network Protocol	RTSP, RTMP, ONVIF
Power Interface	Standard DC interface
Other Parameters	
Power Adaptor	Input AC110V-AC220V, output DC12V/1A, support POE (optional)
Input Voltage	DC12V±10%
Input Current	400mA (max)
Consumption	4.8W (max)
Store Temperature	-10°C~+60°C
Store Humidity	20%~95%
Working Temperature	-10°C~+50°C
Working Humidity	20%~80%
Dimension	126.8mmX55mmX58.6mm
Weight	0.5kg
Remote Operation (IP port)	remote upgrade, remote reboot and remote reset
Accessory	12V/1A power supply, user manual, warranty card
Optional Accessory	Installation Bracket

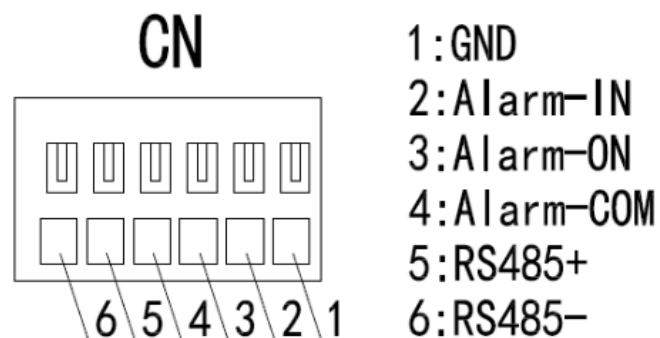
2.4 Interface instruction

2.4.1 External Interface

- 1) RS485 interface, alarm input output, audio input interface, 3G-SDI output, LAN, DC12V power interface, auto iris interface



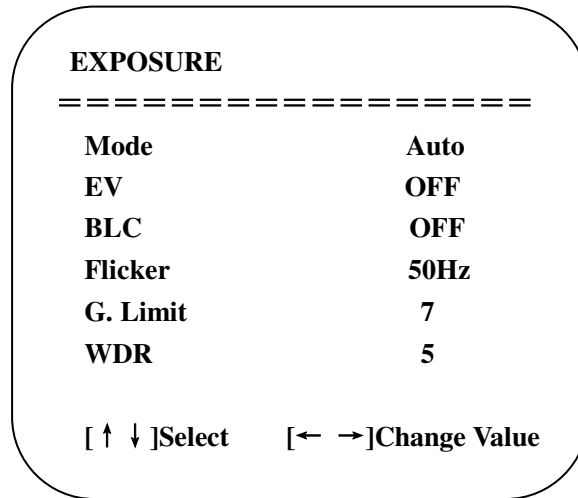
2.4.2 RS-485 interface



[↑↓] **Select**: for selecting menu
 [← →] **Change value**: for modify parameters
 [MENU] **Back**: Press [MENU] to return
 [Home] **OK**: Press [Home] to confirm

3.2.1.1 Exposure

Move the pointer to the (**Exposure**) in the Main Menu, click the **【HOME】** key and enter into the (**Exposure sub menu**) as shown below,



MODE: Auto, Manual, Shutter priority, Iris priority and Brightness priority.

EV: On/Off (only available in auto mode)

Compensation level: -7~7 (only available in auto mode when EV is ON)

BLC: ON/OFF for options (only available in auto mode)

Anti-Flicker: OFF/50Hz/60Hz for options (only available in Auto/Iris **priority**/Brightness **priority** modes)

Gain limit: 0~15(only available in Auto/ Iris **priority** /Brightness **priority** mode)

BRIGHTNESS: 0~23 (only available in Brightness **priority** mode)

WDR: Off, 1~8

Shutterpriority:1/25,1/30,1/50,1/60,1/90,1/100,1/120,1/180,1/250,1/350,1/500,1/1000,1/2000,1/3000,1/4000,1/6000, 1/10000 (only available in Manual and Shutter priority mode)

IRIS priority: OFF,F11.0,F9.6,F8.0,F6.8,F5.6,F4.8,F4.0,F3.4,F2.8,F2.4,F2.0,F1.8(only available in Manual and Iris priority mode)

3.2.1.2 COLOR

Move the pointer to the (COLOR) in the Main Menu, click the **【HOME】** and enter the (COLOR sub menu) as follow,



COLOR	
=====	
WB Mode	Auto
Saturation	80%
Hue	7
AWB Sensitivity	High
Color style	Default
Color temp	Middle
[↑ ↓]Select [← →]Change Value	

WB MODE: Auto,3000K,4000K,5000K,6500K,Manual,One Push

RED GAIN: 0~255(only available in Manual mode)

BLUE GAIN: 0~255(only available in Manual mode)

SATURATION: 60%, 70%, 80%, 90%, 100%, 110%, 120%, 130%

Hue: 0~14

AWB Sensitivity: high/middle/low

Color Style: Default, style1~4.

Color temp: high/middle/low

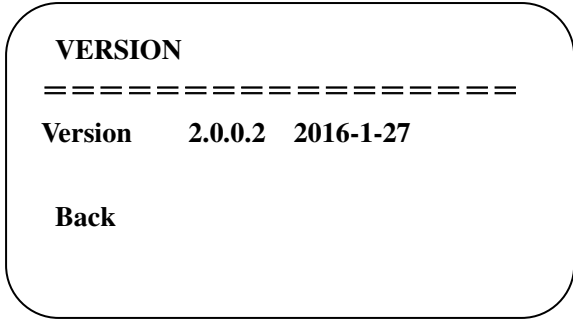
3.2.1.3 IMAGE

Move the pointer to the (IMAGE) in the Menu, click the **【HOME】** and enter into the (IMAGE sub menu) as follow,

IMAGE	
=====	
Brightness	6
Contrast	8
Sharpness	7
Flip-H	OFF
Flip-V	OFF
B&W-Mode	Color
Gamma	Default
DCI	1
[↑ ↓]Select [← →]Change Value	
[Menu]Back	

Brightness: 0~14

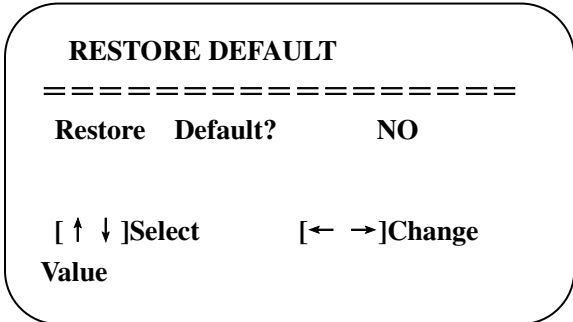




Note: version information would be different after FM upgrading.

3.2.1.7 RESTORE DEFAULT

Move the pointer to the (RESTORE DEFAULT) in the Main Menu, click the **【HOME】** and enter the (RESTORE DEFAULT) as follow.



Restore default: YES/NO.



4. Network Connection

4.1 Connection Mode

Direct connection: Connect the camera directly to the computer by using an ethernet cable.

Internet connection mode: Connect the camera and computer to a router or switch and access via the local area network (LAN).

Note: Ensure power and network connections are secured to prevent video issues caused by poor connection quality.

The computer must be on the same subnet as the camera to connect successfully. The device will not be accessible otherwise. The camera default IP address is 192.168.5.163, therefore the computer must be connected to the 192.168.5.x subnet.

To connect to the camera open the Local Area Connection Properties on the computer.

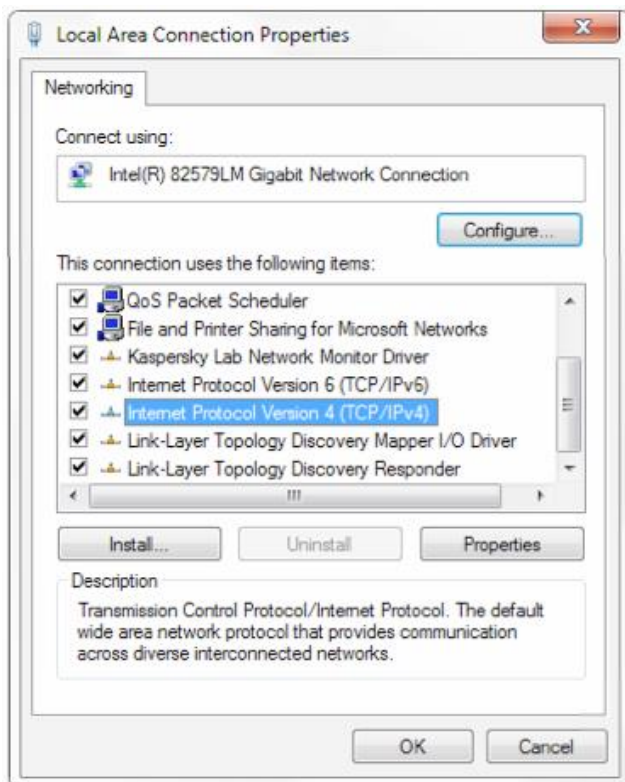
For Windows users right-click on the internet connection in the lower right corner of the desktop.

Select **“Open Network & Internet Settings”**.

Select **“Change Adapter Options”**.

Right-click on your connection (Wi-Fi or Ethernet) and select **“Properties”**.

Select **“Internet protocol version 4 (TCP/IPv4)”** as shown below and click **“Properties”**.



For the following steps refer to the diagram below.

Click on the bubble for “Use the following IP address”

In the **IP address** field enter a non-conflicting IP address on the same subnet as the camera. If there is another device with the same IP address you will not be able to connect. In the example below we are using 192.168.5.200

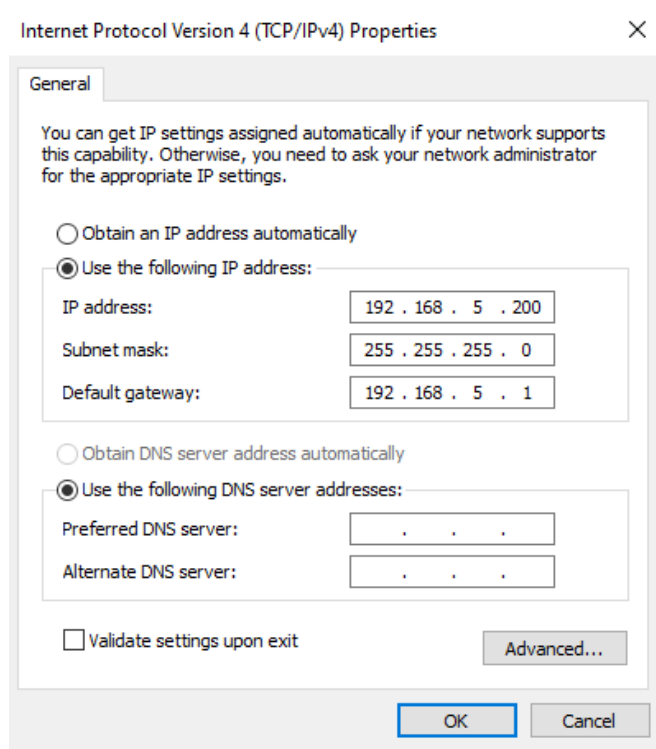
In the **Subnet mask** field enter 255.255.255.0

In the **Default gateway** field type 192.168.5.1

You can leave the DNS fields blank.

Click **OK** to apply your settings.

NOTE: When you are finished configuring the camera you will need to return to this screen and click the bubbles for “Obtain an IP address automatically” and “Obtain DNS server automatically” to restore internet connectivity to your computer. Also make sure to reconnect any ethernet cables you may have unplugged.



4.2 WebGUI Log In

4.2.1 Web client

1) Web client Log In

Input the IP address 192.168.5.163 of the device in the address field of browser and click Enter button to enter into Web Client login page as below picture. User can login as administrator and normal user. If log in as administrator (Default: Username – admin / Password – admin), users can preview, playback, configuration and cancel in the Web Client. If log in in as normal user (Default: Username/Password – user1 or user2), users can only preview, playback and cancel; no option for configuration.



Supported browsers for WebGUI access include Chrome, Firefox, and Safari

4.2.2 Preview

After successful login into the management interface, it enters the video preview interface. In the preview screen, users can control PTZ, zoom, focus, video capture, sound, focus, full screen and set the preset position, run, delete and other operations.

1) Login as administrator

Default Username/password: admin

PTZ control can be carried out, zoom, focus, video capture, sound, zoom, full screen and set the preset position, run, and delete; you can preview, playback, configuration, log off.

2) Login as normal user

Default Username/password: user1 or user2

PTZ control can be carried out, zoom, focus, video capture, sound, zoom, full screen and set the preset position, run, and delete; you can preview, playback and log off.

NOTE: There is no configuration rights for normal user login.

4.2.3 Configuration

Click **Configuration** to enter into the device parameters setting page

There are the following options: Local configuration, audio configuration, video configuration, network configuration, PTZ configuration, internet access configuration, system configuration. For detailed descriptions, see the following table.

Menu	Explanation
Local configure	Including video preview mode, record video packing time, record video storage route settings etc.
Audio configure	Including audio compressing format, sampling frequency, sampling precision, compressing code rate settings etc.
Video configure	Including video encoding, video parameters, character-overlapping, character size, video output setting etc.
Network configure	Including basic parameters, Ethernet, DNS, wireless network setting etc.
System configure	Including equipment property, system time, user management, version update, Reset, Reboot device settings etc.

1) Local configuration

Video Preview Mode: user can choose real-time priority or fluency priority: The delay will be small when under real time priority mode and fluency will be good when under fluency priority mode. Setting based on the user need (Default value: real time normal (2), real time best (1), fluency normal (3), fluency good (4) and fluency best (5))

Recording packing time(minute): Set recording video packing time (default is 10, range from 1~120 minutes)

Recording/Snapshot file storage route: Set local recording video/snapshot file storage route. (Default D:\MyIPCam\)

Click the **Save** button to make settings effective.

2) Audio Configuration

Switch: Choose to enable the audio or not.

Compressing format: Set audio compressing format and the device will reboot automatically after change (default MP3, PCM, AAC optional)

Sampling frequency: Set sampling frequency and the device will reboot automatically after change (default 44100,16000,32000 and 48000 optional)

Sampling precision: Set sampling precision (default 16bits)

Compressing code rate: Set audio compressing code rate (default 64bits,32,48,96,128bits optional)

Note: Click "SAVE", it will remind **Enable has changed. Restart the device to take effect after the success of the save. Then reboot the camera to make new settings take effect.**

4.2.4 Video configuration

1) Video encoding

Code stream: Stream: Different video output mode setting, use different streams. (Main stream, secondary stream)

Compression Format: Set the video compression format, save and reboot to take it effect (primary / secondary stream default: H.264,H.265 optional)

Video Size: Set video image resolution, save and reboot to take it effect (main stream default 1920 * 1080 or 1280 * 720 optional; default secondary stream 640 * 320,320 * 180,1280 * 720,1920 * 1080 optional)

Stream Rate control: Set rate control mode, save and reboot to take it effect (Primary / secondary stream default variable bit rate, fixed rate is for option).

Image Quality: Set the image quality, image quality can be changed only when rate control is variable bit rate, (main stream defaulted is better, secondary stream default is not good, there are best, better, good, bad, worse, worst for options).

Rate (Kb / s): Set the video bit rate (main stream default 4096Kb / s,64-12288Kb / s optional; secondary stream default 1024Kb / s,64-10240Kb / s optional).

Frame rate (F / S): Set the video frame rate (primary / secondary stream default 25F / S, primary stream 5-60F/S optional, secondary stream 5-30F / S optional).

Keyframe interval: Set the key frame interval (primary / secondary stream default 75F, primary / stream 1-300F optional. secondary stream 1-150F optional).

Click the "Save" button to display the "saved successfully" message, then settings take effect.

2) Stream Release

Switch: To turn on/off the main / secondary stream.

Protocol: primary / secondary stream applies RTMP protocol.

Host Port: server port number (default 1935,0-65535 optional)

Host Address: server IP addresses (default 192.168.5.11)

Stream Name: choose a different stream name (live / av0, live / av1 optional).

User: Set the username.

Password: Set the password.

Click on the "Save" button to display the "Save successful" message, then settings take effect.

Method of obtaining RTSP: rtsp:// device IP address: 554 / live / av0 (av0 main stream; av1 secondary stream)

3) Video Parameters

a. Focus: Focus mode, focus range, focus sensitivity can be set.

Focus Mode: set the focus mode (the default auto, manual optional)

Focus range: set the focus range (the default middle, the upper and lower optional)

Focus Sensitivity: Set the focus sensitivity (default is low, high, medium optional)

b. Exposure: Exposure mode, exposure compensation, back light compensation, anti-flicker, gain limit, wide dynamic, shutter speed, aperture value and brightness can be set.

Exposure Mode: Set the exposure mode (the default automatic, manual, shutter priority, aperture priority, Brightness priority optional)

Exposure compensation: Exposure compensation setting is active when it is auto status (default is off).

Exposure compensation value: Set the exposure compensation value, valid when it is set for auto (default 0-7 to 7 optional).

BLC: Set back light compensation, valid when it is auto status (default is off).

Anti-flicker: Set up anti-flicker mode, valid when status of automatic, aperture or brightness priority (default 50Hz, closed,60Hz optional).

Gain limit: set the gain limits, auto, active when it is status of aperture or brightness priority (default 7,0-15 optional).

Dynamic range: set the dynamic range (default 3,0-8 optional).

Shutter speed: active when it is status of manual or shutter-priority (default 1 / 90,1 / 90,1 / 100,1 / 1/120 / 180,1 / 250,1 / 350,1 / 500,1 / 725 1 / 1000,1 / 1500,1 / 2000,1 / 3000,1 / 1/4000 / 6000,1 / 10000 optional).

Aperture value: Set the aperture value, active when it is status of manual or aperture-priority(default F1.8,closed,F9.6,F8.0,F6.8,F5.6,F4.8,F4.0,F3.4,F2 .8,F2.4,F2.0,F1.8 optional).

Brightness: Set the brightness value, active when it is a state of brightness priority (default 7,0-23 optional).

c. Color: White balance, saturation, color, white balance, sensitivity, color temperature, gain red and blue gain can be set.

White balance modes: Set the white balance mode (the default automatic,3000K,4000K,5000K,6500K, manual, One-push optional). Note: Click the "Correction" button when selected the One-push white balance mode.

Saturation: Set the saturation (default 80%,60%,70%,80%,90%,100%,110%,120%,130%, optional).

Auto white balance Sensitivity: Sensitivity Auto white balance settings (default is low, high, medium optional).

Chroma: Set the chrome (default 7,0-14 optional).

Color Temperature: set color temperature (Default setting: High, with low, middle for options)

Red Gain: Set the red gain, effective when it is manual (default 255,0-255 optional).

Blue Gain: Sets the Blue gain, effective when it is manual (default 199,0-255 optional).

d. Image: Brightness, contrast, sharpness, black and white mode,the gamma curve, Horizontal Flip and Vertical Flip can be set.

Brightness: Set the brightness (default 6,0-14 optional).

Contrast: set the contrast (default 8,0-14 optional).

Sharpness: Set the sharpness value (default 7,0-15 optional).

Black and white mode: Set black and white mode (default color, black/white optional).

Gamma: Gamma value setting (default,0.45,0.50,0.52,0.55 optional).

Flip Horizontal: Set Flip Horizontal (default Off, On optional).

Flip Vertical: Set vertical flip (default Off, On optional).

e. Noise Reduction: 2D noise reduction,3D noise reduction and dynamic dead pixel correction available.

2D Noise Reduction: Set 2D noise reduction level (default Auto,1-7 and Off optional).

3D Noise Reduction: Set 3D noise reduction level (default 3,1-7 and Off optional).

Dynamic dead pixel correction: Set Dynamic dead pixel correction (default Off,1-8 optional).

Note: Click "Refresh" to make revision of any video parameters of a,b,c,d,e effective .

4) Character-Overlapping

Display date and time: Set whether to display the time and date (default display).

Display Title: Set whether to display the title (default display).

Font Color of Time: Set font color of time and date (default white, black, yellow, red, blue optional).

Font Color of Title: Set font color of title (default white, black, yellow, red, blue optional).

Moving characters: Set the display position of moving date, time and title, click on the "up, down, left, right" buttons to move the corresponding character position.

Title Content: Set title content (default CAMERA1).

Time Content: Set time content (default 1970/01/10 05:36:00)

Click on the "Save" button and display the "Save successful" message, then valid

5) Character Size

Main stream character size: Set the character size of the display, the device will restart automatically after changed and saved (default 24,24,16 optional)

Secondary stream character size: Set the character size of the display, the device will restart automatically after changed and saved (default 16,24,16 optional)

Click on the "Save" button to display "Parameter saved successfully" message, set to take effect

6) Video output

S model output Format: 1080P60, 1080P50, 1080P30, 1080P25, 1080I60, 1080I50, 720P60, 720P50, 720P30, 720P25, 1080P59.94, 1080I59.94, 1080P29.97, 720P59.94, 720P29.97.

M model output format: 1080P30, 1080P25, 720P30, 720P25, 1080I59.94, 1080I60, 1080I50, 1080P29.97, 720P29.97

Click on the "Save" button, it will be valid when display "Save successful".

4.2.5 Network configuration

1) Network port

Data port: set the data port, the device will restart automatically after changed (default 3000,0-65535 optional).

Web Port: Set Web port, the device will restart automatically after changed (default is 80,0-65535 is optional).

Onvif Port: Set Onvif port, the device will restart automatically after changed (default 2000,0-65535 optional).

Soap Port: Set Soap port (default 1936,0-65535 optional).

RTMP Port: Set RTMP port (default 1935,0-65535 optional).

RTSP Port: Set RTSP port, the device will restart automatically after changed (default 554,0-65535 optional).

Visca Port: Set Visca port, the device will restart automatically after changed (default 3001,0-65535 optional).

Click on the "Save" button, it will be valid when display "Save successful".

RTMP Obtaining method: rtmp:// device IP address: 1935 / live / av0 (av0 main stream; av1 secondary stream)

2) Ethernet parameters

DHCP: Enable or disable obtain IP automatically can be set. Save changes and reboot the device to takes effect (Default: OFF)

IP Address: Set the IP address, save changes and reboot the device to takes effect (default 192.168.5.163). Note: This IP address is the same with the one used to login Web page.

Subnet Mask: Set the subnet mask (default 255.255.5.0).

Default Gateway: Set the default gateway (default 0.0.0.0).

Physical Address: Set the physical address (the parameter is read-only but cannot be modified).

Click on the "Save" button, it will be valid when display "Save successful". (Note: To prevent IP conflicts When modify).

3) DNS parameters

Preferred DNS server: set the preferred DNS server. (Default 0.0.0.0).

Alternate DNS server: Alternate DNS server settings. (Default 0.0.0.0).
Click on the "Save" button, it will be valid when display "Save successful".

4) GB28181

Switch: set whether open GB28181, can check
Time Synchronization: whether synchronization time is set, you can check
Stream Type: stream type setting (the default main stream, secondary stream optional)
Sign effective time (in seconds): 3600 Range 5-65535
Heartbeat time (seconds): 60 Range 1-65535
Register ID: 34020000001320000001
Register Username: IPC
Register Password: 12345678
Equipment ownership: Users can add their own
Administrative regions: Users can add their own
Alarm Zone: Users can add their own
Equipment installation address: Users can add their own
Local SIP Port: 5060 Range 0-65535
GB28181 Server Address: IP address of the computer
Server SIP Port: 5060 Range 0-65535
Server ID: 34020000002000000001
Click on the "Save" button, it will be valid when display "Save successful".

4.2.6 System configuration

1) Device Properties

Device Name: Set the device name (the default Camera1, user can add their own).
Device ID: Set the device ID (default 1, Read-Only).
System Language: Set the system language (default Simplified Chinese, English optional). Need to re-login after modify and save the setting.
Click on the "Save" button, it will be valid when display "Save successful".

2) System Time

Date Format: Set the date format (YYYY-MM-DD default That year - month - day, MM-DD-YYYY namely Month - Day - Year, DD-MM-YYYY date - month - year Optional).
Date separator: set the date separator (default '/', '-', ' ' Optional).
Time Zone: Set the time zone (default East eight districts, other time zones optional).
Time Type: Set the time types (default 24 hours, optional 12 hours).
Time setting: Set time mode (to choose the computer time synchronization, NTP server time synchronization, or set manually).
Computer Time: Set the computer synchronization valid.
Update interval: Set the NTP server automatic updated time interval. Valid after setting NTP server synchronization (default one day, 2-10 days Optional).
NTP server address or domain name: Set NTP server address or domain name (default time.nits.gov). Valid after setting NTP server synchronization.
NTP Server Port: Sets the NTP server port (default 123). Valid after setting NTP server synchronization.
Set the time manually, Effective when set manually.
Click on the "Save" button, it will be valid when display "Save successful".

3) User Management

Select users: Set the user type (the default administrator, Common User 1, Common User 2 optional)
Username: set the username (Select User Administrator default admin; select a common user1 default user1; to select a common user 2 default user2; user can modify their own)
Password: Set a password (Select User Administrator default admin; select a common user1 default user1; to select a common user 2 default user2; user can modify their own).
Password confirmation: Confirm the input passwords are the same or not.
Click on the "Save" button to display the "Save successfully" message, then the set is to take effect.
Note: Please note the case-sensitivity of the username and password.
If login page by a common user's name and password, one does not have configuration privileges but can only operate to preview, playback, logoff.

4) Version upgrade

MCU version V2.0.0.16 2015-12-18
Camera version V2.0.0.16 2015-12-18
Focus version V2.0.0.6 2015-12-11

Users only read the version information above which is consistent with the menu version but cannot modify. Different types of the machine has different information.

Update file:

Click "Browse ..." installation, to select the upgrade file in the pop-up window.

Click on the "Upgrade" button, the upgrade dialog will appear. the device will reboot automatically after update successfully. (Note: make sure the power and network is keeping connected during the process or the upgrade will fail)

5) Restore factory setting

Click on pop-up "Restore Factory Defaults" button and choose "yes" or "no", then the device will restart automatically and restore factory setting.

6) Reboot

Click on the pop-up "Reboot" button and choose "yes" or "no", then the device will restart automatically

4.2.7 Logout

Point "Logout" pop-up "Confirmation" dialog; select "Yes" or "No", choose "Yes" to exit the current page and return to the user login interface again.

5. Camera Maintenance and Troubleshooting

5.1 Camera Maintenance

1) If camera is not used for long time, please turn off power adapter switch and AC plug.

2) Use soft cloth or tissue to clean the camera cover.

3) Use soft cloth to clean the lens; Use neuter cleanser if bad smeared. No use strong or corrosive cleanser or corrosive cleanser avoiding scuffing.

5.2 Troubleshooting

1) No video output-

Check whether the camera power supply is connected, the voltage is normal, and the power indicator is lit.

Check whether the camera performed a self-test after restart.

Check whether the bottom of the DIP switch is the normal operating mode.

Verify that output cable and display monitor are working properly.

2) Image cuts out-

Verify that output cable and video display are working properly.

3) Image distorts when camera is moving-

Check whether the camera installation position is solid.

Check whether there is machinery or objects nearby that could be transmitting vibration to the camera.

4) Remote control does not work-

Verify remote control address is set to 1.

Check remote control batteries.

Verify the camera is in the normal operating mode.

Verify the OSD has been exited. Camera cannot be controlled while the menu is being displayed.

5) Serial port not working-

Verify that camera serial device protocol, baud rate, address is correct.

Check whether the control cable is connected properly.

Check whether the camera working mode is the normal operating mode.

6) Cannot connect to Web UI

Check whether the camera output is being displayed normally.

Check whether the network cable is connected properly (Ethernet port yellow light flashes to indicate normal network cable connection).

Verify your computer is connected to the same subnet as the camera.

6. Warranty

BZBGear wants to assure you peace of mind. All BZBGear cameras and camera-related products include our Stress-Free Three-Year Warranty.

For complete warranty information, please visit BZBGear.com/warranty.

For questions, please call 1.888.499.9906 or email support@bzbgear.com.

7. Mission Statement

BZBGear manifests from the competitive nature of the audiovisual industry to innovate while keeping the customer in mind. AV solutions can cost a pretty penny, and new technology only adds to it. We believe everyone deserves to see, hear, and feel the advancements made in today's AV world without having to break the bank. BZBGear is the solution for small to medium-sized applications requiring the latest professional products in AV.

We live in a DIY era where resources are abundant on the internet. With that in mind, our team offers system design consultation and expert tech support seven days a week for the products in our BZBGear catalog. You'll notice comparably lower prices with BZBGear solutions, but the quality of the products is on par with the top brands in the industry. The unparalleled support from our team is our way of showing we care for every one of our customers. Whether you're an integrator, home theater enthusiast, or a do-it-yourselfer, BZBGear offers the solutions to allow you to focus on your project and not your budget.

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