

HD Fisheye Panorama Network Camera

Quick Start Guide

Version 1.0.0

Welcome

Thank you for purchasing our network camera!

This user's manual is designed to be a reference tool for your system.

Please read the following safeguard and warnings carefully before you use this series product!

Please keep this user's manual well for future reference!

1 . Electrical safety

All installation and operation here should conform to your local electrical safety codes.

Please check if the power supply is correct before operating the device.

The power shall conform to the requirement in the SELV (Safety Extra Low Voltage) and the Limited power source is rated 12V DC, DC5V or AC24V in the IEC60950-1. (Power supply requirement is subject to the device label).

Please install easy-to-use device for power off before installing wiring, which is for emergent power off when necessary.

Please prevent the line cord from being trampled or pressed, especially the plug, power socket and the junction from the device.

Note: Do not connect these two power supplying sources to the device at the same time; it may result in device damage!

We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.

We are not liable for any problems caused by unauthorized modification or attempted repair.

2 . Environment

Please don't aim the device at strong light (such as lighting, sunlight and so on) to focus; otherwise it may cause overexposure (It is not the device malfunction), which will affect the longevity of CCD or CMOS.

Please transport, use and store the device within the range of allowed humidity and temperature.

Please don't keep the device in a place which is wet, dusty, extremely hot, and extremely cold and with strong electromagnetic radiation or unstable lighting.

Please do not allow water and other liquid falling into the camera in case that the internal components are damaged.

Please do not allow rain or damp to the indoor device in case fire or lightning may occur.

Please keep the sound ventilation in case of heat accumulation.

Please pack the device with standard factory packaging or material with same quality when transporting the device.

Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.

3. Operation and Daily Maintenance

Please do not touch the heat dissipation component of the device directly in order to avoid scald.

Please do not dismantle the device; there is no component which can be fixed by users themselves in the machine. It may cause water leakage or bad image for the device due to unprofessional dismantling.

It is recommended to use the device with thunder proof device in order to improve thunder proof effect.

The grounding holes of the product are recommended to be grounded to further enhance the reliability of the camera.

Do not touch the CCD (CMOS) optic component directly. You can use the blower to clean the dust or dirt on the lens surface. Please use a dry cloth wetted by alcohol to wipe away the dust gently if it is necessary to clean.

Always use the dry soft cloth to clean the device. If there is too much dust, please use the water to dilute the mild detergent first and then use it to clean the device. Finally use the dry cloth to clean the device. Don't use volatile solvent like alcohol, benzene, thinner and etc or strong detergent with abrasiveness, otherwise it will damage the surface coating or reduce the working performance of the device.

Dome cover is an optical device, please don't touch or wipe cover surface directly during installation and use, please refer to the following methods to deal with once dirt is found:

Stained with dirt

Use oil-free soft brush or hair dries to remove it gently.

Stained with grease or fingerprint

Use soft cloth to wipe the water drop or oil gently to make it dry, then use oil-free cotton cloth or paper soaked with alcohol or detergent to wipe from the lens center to outward. It is ok to change the cloth and wipe several times if it is not clean enough.

Warning

Please use the standard accessories provided by manufacturer and make sure the device is installed and fixed by professional engineers.

Please prevent the device surface from the radiation of laser beam when using laser beam device.

Please do not provide two or more power supply modes for the device, otherwise it may cause damage to the device.

Statement

Please refer to the actual product for more details; the manual is just for reference.
The manual will be regularly upgraded according to the product update; the upgraded content will be added in the manual without prior announcement.

Please contact the supplier or customer service if there is any problem occurred when using the device.

Please contact the customer service for the latest procedure and supplementary documentation.

There may be deviation between the actual value of some data and the value provided in the manual due to the reasons such as the real environment is not stable and so on.

Please refer to the company's final explanation if there is any doubt or dispute.

The company is not liable for any loss caused by the operation which is not followed by the manual.

Before installation, please open the package and check all the components are included.
Contact your local retailer ASAP if something is broken in your package.

Accessory Name	Amount
Network Camera	1
Quick Start Guide	1
Installation Accessories Bag	1
CD	1

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1 Structure

1.1 Device External Cables

Note: There is slight difference about appearance between the product models and the following figures; please refer to Figure 1-1 or Figure 1-2 according to the actual products.

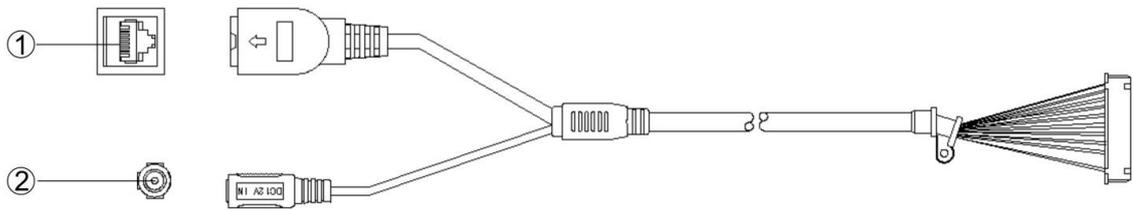


Figure 1- 1

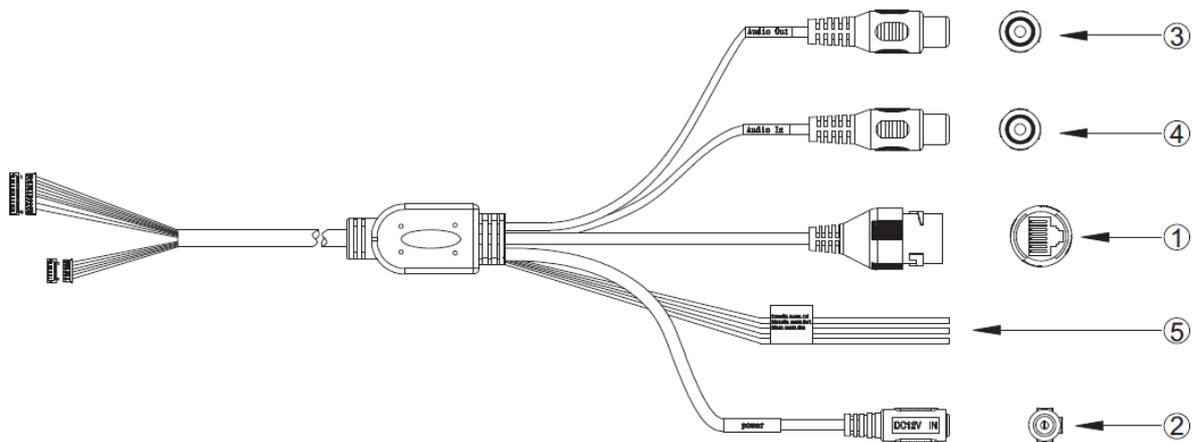


Figure 1-2

Please see Sheet 1-1 for more details about external cable functions.

SN	Port	Port name	Connector	Function Description
1	LAN	Network port	Ethernet port	Connect standard Ethernet cable.
2	POWER	Power input port	-	Connect DC 12V power, input power.
3	AUDIO OUT	Audio output port	RCA	Output audio signal to speaker and other devices.
4	AUDIO IN	Audio input port	RCA	Input audio signal, receive analog audio signal from pick-up and other devices.
5	I/O	I/O port	-	Connect I/O port.

Sheet 1-1

See Sheet 1-2 for more details about I/O port functions.

Port Name	Port SN	Port Connector name	Function Description
I/O Port	1	ALARM_IN1	Alarm input port, receive the on-off signal from external alarm source.
	2	ALARM_OUT1	Alarm output port, output alarm signal to alarm device.
	3	ALARM_GND	GND

Sheet 1-2

1.2 Dimensions

You can refer to the following figures for dimension information. The Unit is mm. See Figure 1- 3, Figure 1- , and Figure 1- .

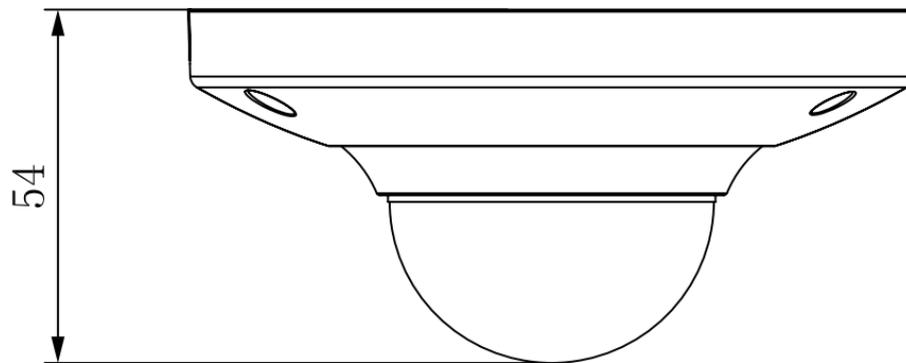


Figure 1- 3

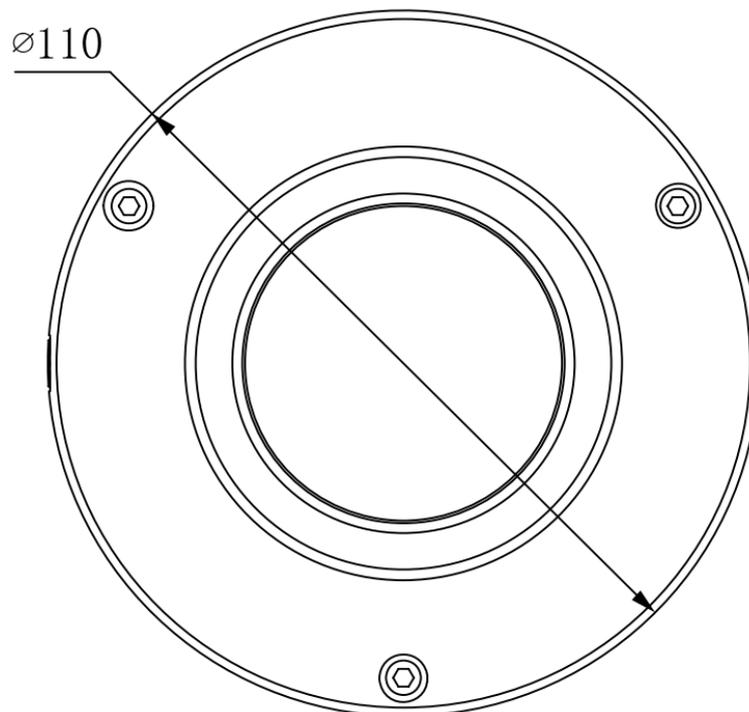


Figure 1- 4

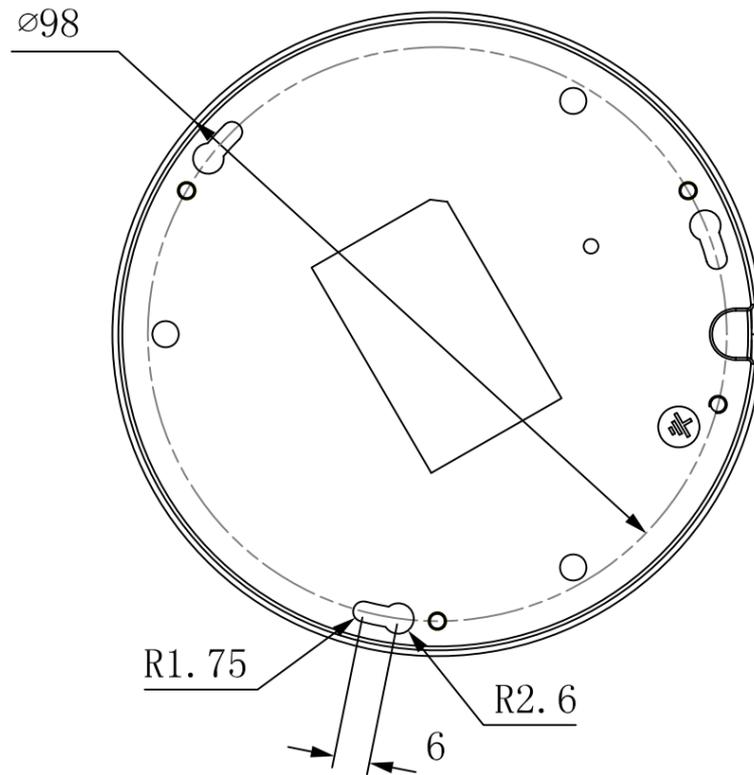


Figure 1- 5

1.3 Bidirectional Talk

1.3.1 Device-end to PC-end

Device Connection

Please connect the speaker or the MIC to the audio input port of the device, and then connect the earphone to the audio output port of the PC. Login the Web and then click the “Talk” button to enable the bidirectional talk function. You can see the button becomes orange after you enabled the bidirectional talk function. Click “Talk” button again to stop the bidirectional talk function.

Listening Operation

At the device end, input the voice info to the speaker or MIC, and then receive the voice info sent via earphone and other devices at the pc-end.

1.3.2 PC-end to Device-end

Device Connection

Please connect the speaker or the MIC to the audio input port of the PC, and then connect the earphone to the audio output port of the device. Login the Web and then click the “Talk” button to enable the bidirectional talk function. You can see the button becomes orange after you enabled the bidirectional talk function. Click “Talk” button again to stop the bidirectional talk function. Bidirectional talk function and on-site listening function can’t be used at the same time for the device.

Listening Operation

At the pc end, input the voice info to the speaker or MIC, and then receive the voice info sent via earphone and other devices at the device-end.

1.4 Alarm Setup

Note:

Alarm function is only supported by some models.

Please refer to Figure 1-6 for more details.

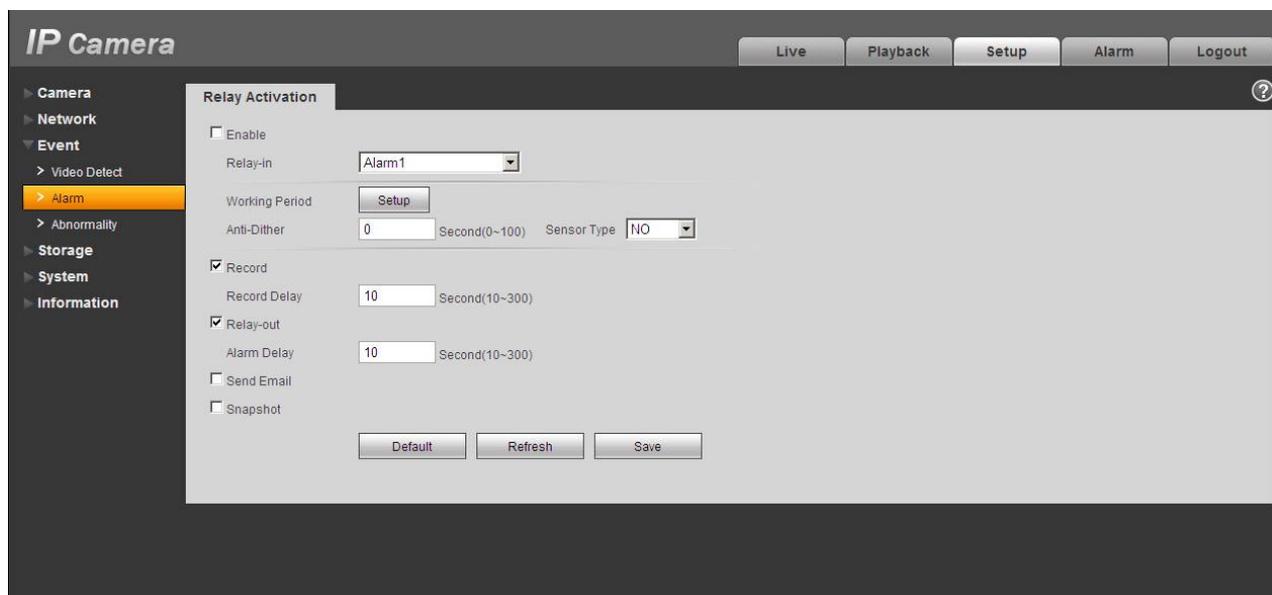


Figure 1-6

Please follow the steps listed below for alarm input and output connection.

Step 1 Connect the alarm input device to the alarm input port of the I/O cable.

Step 2 Connect alarm output device to alarm output port of the I/O cable; alarm output is the output of collector open circuit, which needs the alarm device to pull up 10K resistance to +3.3V

Step 3 Open WEB and set corresponding alarm input and output in the alarm setup. Please set the alarm input of the WEB end to the alarm input of I/O port cable of the corresponding device. Then set corresponding NO/NC input according to the high/low level signal generated when alarm occurs to the alarm input device.

Step 4 Set the WEB alarm output. The alarm output is for the alarm output port of the device. It is the alarm output port of the I/O cable.

The working current of alarm output port is recommended as $\leq 10\text{mA}$, max current is 80mA which is used to drive external circuit; it is advised to add a relay when it is beyond this value.

2 Installation

Important

- Before the installation, please make sure the installation surface can sustain at least 3X weight of the bracket and the camera.

2.1 Device Installation

Please refer to Figure 2- 1 for device installation information.

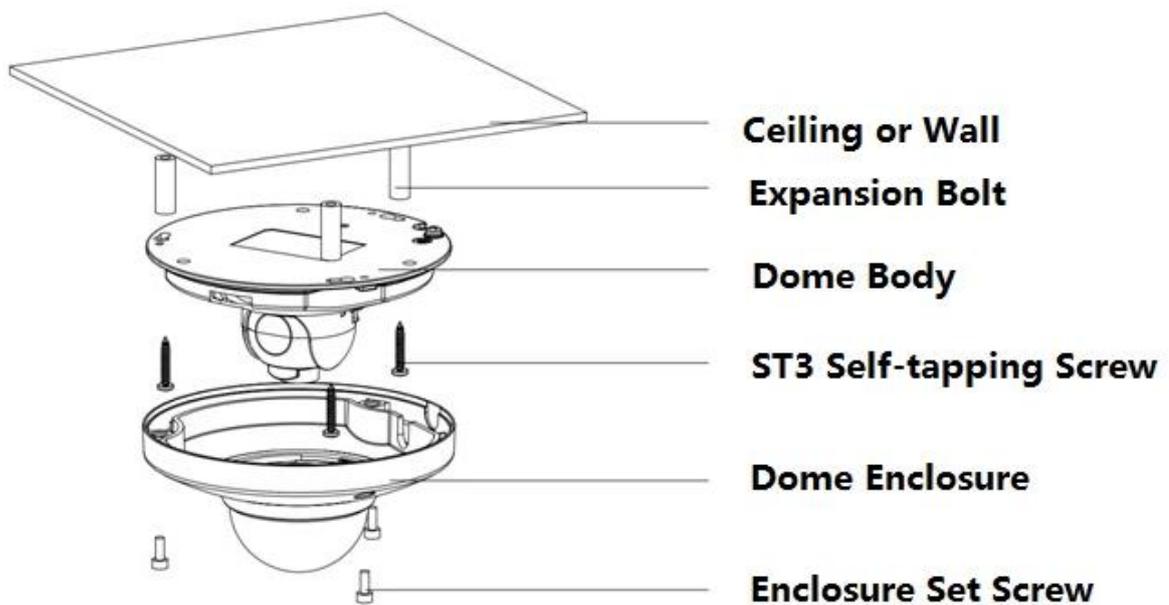


Figure 2- 1

Step 1

Use the inner hex wrench from the accessories bag to unfasten the 3 hex screws on the dome camera enclosure and then open the dome enclosure.

Step 2

Take the installation position diagram from the accessories bag and then paste it on the installation ceiling or the wall according to the monitor area. Please dig three bottom holes of the plastic expansion bolts according to the diagram. Take three expansion bolts from the accessories bag and then insert them to the holes you just dug and then fix firmly.

Note:

If you need to dig a hole to pull through the cable on top of installation surface, you need to dig a cable exit hole on the installation surface according to the installation positioning diagram.

If you need to pull through the cable on the side, you need to dig through the U-shape exit hole on the side of chassis to form a cable access, and then pull the cable through the side exit hole on the chassis.

Step 3

Adjust the device chassis and pull the cable through the exit hole. Make “TOP” direction of the device identical with installation diagram. Make sure the 3 fixture holes on chassis face the three plastic expansion bolts on the surface. Take 3 self-tapping screws out from the accessories bag and fix them on the three plastic expansion bolts to secure the dome on installation surface.

Step 4

Take up the dome protection enclosure; aim the cable exit and cover the enclosure. Then use the inner hex wrench from the accessories bag to fasten the 3 hex screws. So far installation is completed.

Note:

Please refer to Micro SD card installation steps if you need to install Micro SD card, and operate step 4 after the installation.

Connect the host GND to ground lead, which may improve device reliability. The GND locates next to exit hole on the rear side of the chassis and the GND screw is M3.

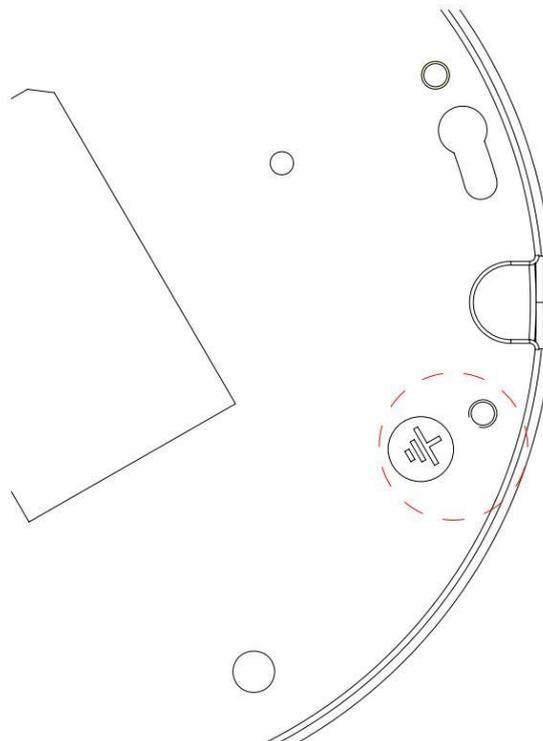


Figure 2- 2

2.2 Micro SD Card Installation

Take down the 3 hex screws on the upper enclosure by using the inner hex wrench in the accessories bag, find the location of Micro SD card slot according to the following figure, and fasten the 3 screws on the upper enclosure after inserting Micro SD card.

Note:

Please make sure the wire connection between power panel and device motherboard is firm, otherwise may cause abnormality.

Make sure the 3 screws are fastened firmly after completion to prevent dust for the device.

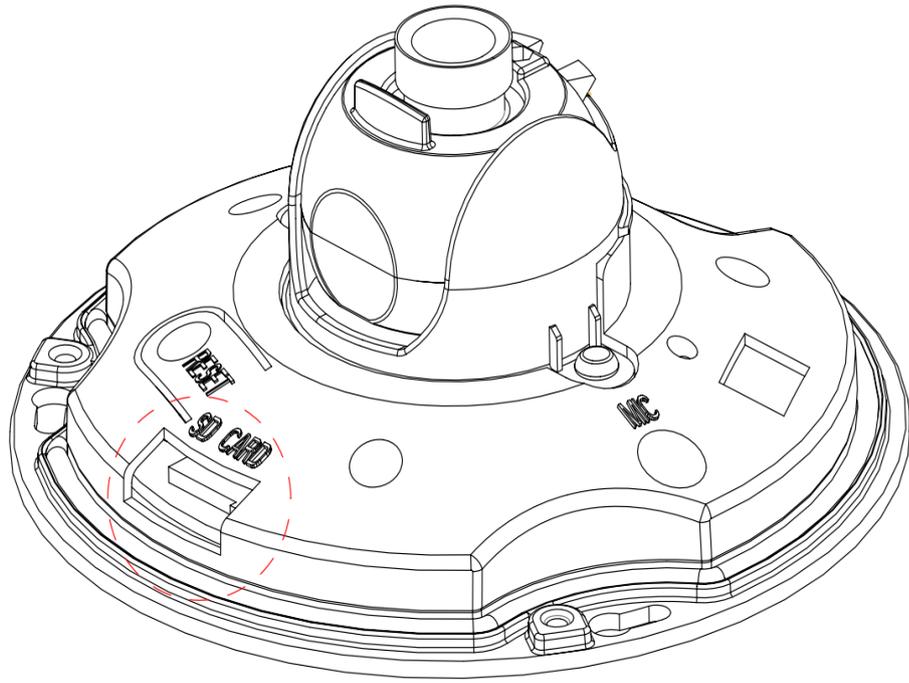


Figure 2- 3

The image shows a 'Login' dialog box with a blue title bar and a close button in the top right corner. It contains four input fields: 'IP Address' with the value '192.168.1.108', 'User Name' with the value 'admin', 'Password' with the value '*****', and 'Port' with the value '37777'. At the bottom, there are two buttons: 'Login' and 'Cancel'.

Figure 3- 1

After you logged in, the configuration tool main interface is shown as below. See Figure 3- .

The image shows the main configuration tool interface. At the top, there are four tabs: 'NetWork Parameter', 'PPPOE', 'System Information', and 'System Upgrade'. The 'NetWork Parameter' tab is selected. Below the tabs is a 'General Parameter' section. It contains a checkbox for 'DHCP Enable' which is unchecked, and a dropdown menu for 'IPv4' which is set to 'IPv4'. Below these are four input fields: 'IP Address' with the value '192.168.1.108', 'Subnet Mask' with the value '255.255.255.0', 'Gateway' with the value '192.168.1.1', and 'Mac Address' with the value '90:02:a9:00:76:83'. At the bottom of the window, there are two buttons: 'Save' and 'Return'.

Figure 3- 3

For detailed information and operation instruction of the quick configuration tool, please refer to the *Quick Configuration Tool User's Manual* included in the resources CD.

4 Web Operation

This series network camera products support the Web access and management via PC. Web includes several modules: Monitor channel preview, system configuration, alarm and etc.

4.1 Network Connection

Please follow the steps listed below for network connection.

- Make sure the network camera has connected to the network properly.
- Please set the IP address, subnet mask and gateway of the PC and the network camera respectively. Network camera default IP address is 192.168.1.108. Subnet mask is 255.255.255.0. Gateway is 192.168.1.1
- Use order ping `***.***.***.***`(* network camera address) to check connection is OK or not.

4.2 Login and Main Interface

Open IE and input network camera address in the address bar.

For example, if your camera IP is 192.168.1.108, then please input `http:// 192.168.1.108` in IE address bar. See.

The login interface is shown as below. See Figure 4- 1.

Please input your user name and password.

Default factory name is admin and password is admin.

Note: For security reasons, please change your password after you first login.



Figure 4- 1

Please install the WEB plug-in according to the prompt after you logged in successfully, please refer to the WEB Operation Manual for the exact installation method of WEB plug-in.

After you logged in, you can see the main window. See Figure 4-.

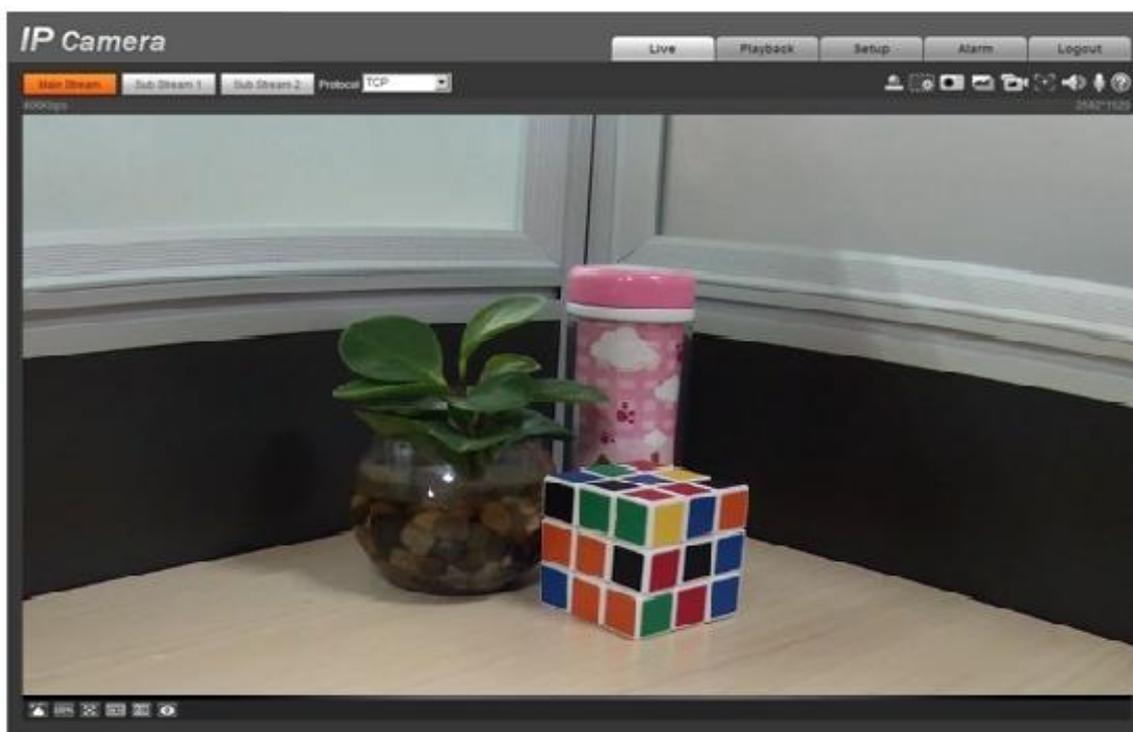


Figure 4-2

Please refer to the Web Operation Manual included in the resource CD for detailed operation instruction.

4.3 Panorama Function on Web

There is a panorama icon at the lower-left corner of web interface and you can click it to view installation mode and display mode at the right.

Please configure corresponding installation mode on the WEB config page according to the exact installation way. Otherwise, abnormality may happen to the video display.

1 Appendix Toxic or Hazardous Materials or Elements

Component Name	Toxic or Hazardous Materials or Elements					
	Pb	Hg	Cd	Cr VI	PBB	PBDE
Circuit Board Component	○	○	○	○	○	○
Device Case	○	○	○	○	○	○
Wire and Cable	○	○	○	○	○	○
Packing Components	○	○	○	○	○	○
Accessories	○	○	○	○	○	○

O: Indicates that the concentration of the hazardous substance in all homogeneous materials in the parts is below the relevant threshold of the SJ/T11363-2006 standard.

X: Indicates that the concentration of the hazardous substance of at least one of all homogeneous materials in the parts is above the relevant threshold of the SJ/T11363-2006 standard. During the environmental-friendly use period (EFUP) period, the toxic or hazardous substance or elements contained in products will not leak or mutate so that the use of these (substances or elements) will not result in any severe environmental pollution, any bodily injury or damage to any assets. The consumer is not authorized to process such kind of substances or elements, please return to the corresponding local authorities to process according to your local government statutes.

Note

- **This user's manual is for reference only. Slight difference may be found in user interface.**
- **All the designs and software here are subject to change without prior written notice.**
- **All trademarks and registered trademarks mentioned are the properties of their respective owners.**
- **If there is any uncertainty or controversy, please refer to the final explanation of us.**
- **Please visit our website for more information.**