



SF2012H IP Camera Series

SF2012H/SF2012H-B/SF2012H-C

SF2012H-D/SF2012H-DV

Quick User Guide



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Before Installation

Before installation, please be sure to read this quick installation guide and user's manual carefully to complete the installation.

I. Camera Introduction

The following section introduces package contents, hardware installation, factory default reset, and SD card Compatibility List of each type camera.

1. Box Type IP Camera (SF2012H)

1.1 Package Contents

Item	Descriptions
	1. SF2012H
	2. Accessory pack
	3. Ethernet cable
	4. Power Adaptor(DC 12V/1A) (Optiona)
	5. CD (User's Manual and Quick Guide included)

**If any of the above items are missing, please contact your dealer immediately.

1.2 Hardware Installation

Connect the power adapter and connect the IP camera to local network with the Ethernet cable.



1.3 Factory Default

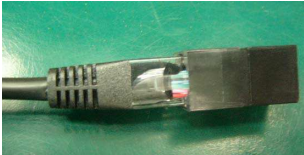
1. Please follow the below instructions if the user name, password, and IP address are lost.
2. First, unplug the power adapter. Then, press the button in the back of IP camera as shown in figure.



3. Plug in the power adapter and do not release the button during the IP camera booting.
4. It will take around 30 seconds to boot the IP camera.
5. Release the button after the IP camera finishes booting.
6. Reconnect the IP camera with the default IP address (192.168.1.200), user name (**admin**), and password (**admin**).

2. Bullet Type IP Camera (SF2012H-B)

2.1 Package Contents

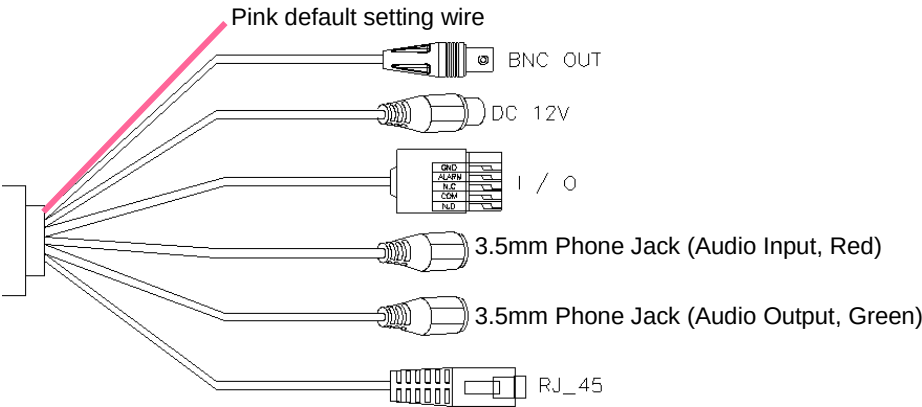
Item	Descriptions
	1. SF2012H-B
	2. Stand
	3. Accessory pack
	4.. RJ45 socket
	5. Ethernet cable
	6. Power Adaptor(DC 12V/1A) (Optiona)

Item	Descriptions
	7. CD (User's Manual and Quick Guide included)

**If any of the above items are missing, please contact your dealer immediately.

2.2 Hardware Installation

1. Connect a power adapter and IP camera to PC or local network.



2. I/O Control Instruction

I/O terminal connector – used in application, for e.g., motion detection, event triggering, alarm notifications. It provides the interface to:

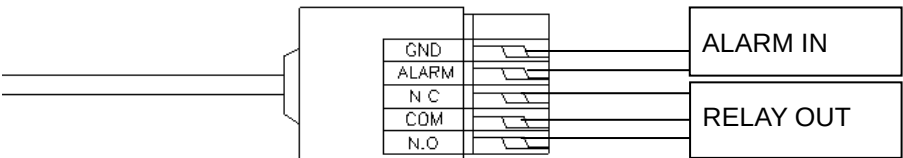
- Digital Input (GND+Alarm) : An alarm input for connecting devices that can toggle between an open and closed circuit, for

1. GND (Ground) : Initial state is LOW
2. Alarm : Max. 50mA, DC 3.3V

Example: PIRs, door/window contacts, glass break detectors, etc. When a signal is received the state changes and the input becomes active.

- Relay output (COM +N.O.) / (COM+N.C.) : An output to Relay switch, for example: LEDs, Sirens, etc

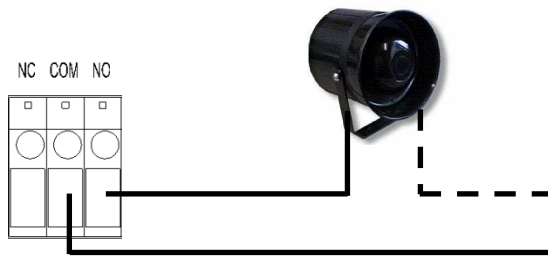
1. N.C. (Normally Close): Max. 1A, DC24V or 0.5A, 1AC25V
2. COM: (Common)
3. N.O. (Normally Open): Max. 1A, DC24V or 0.5A, AC 125V



[Example]

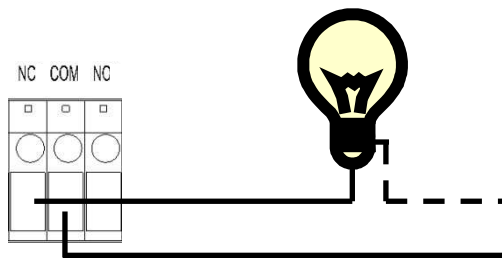
RELAY INSTALLATION EXAMPLE 1

Trigger a “Normal OFF” (Normal Open) alarm siren on when event/motion occur:



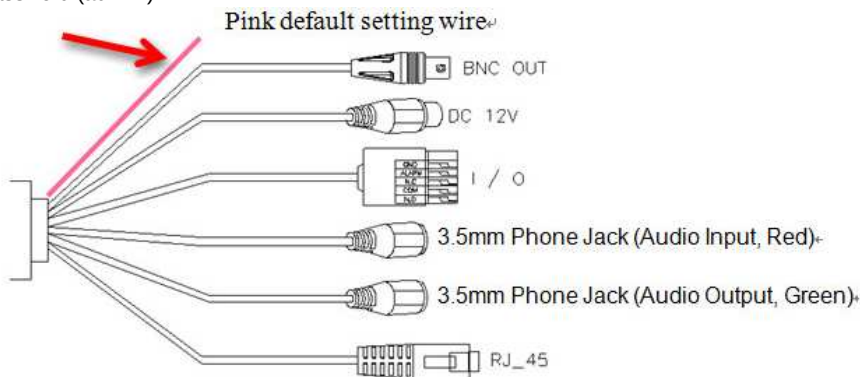
RELAY INSTALLATION EXAMPLE 2

Trigger the “Normal ON” (Normal Close) indoor illumination off when event / motion occur:



2.3 Factory Default

1. Removing an Ethernet cable.
2. Plugging "a pink default cable" into "GND".
3. Plug power cable.
4. When camera starts again, please remove the pink default cable and plug Ethernet cable for new setting.
5. Release the button when camera finishes proceed.
6. Re-login the camera using the default IP (<http://192.168.1.200>), and user name (**admin**), password (**admin**).



3. Cube IP Cameras (SF2012H-C)

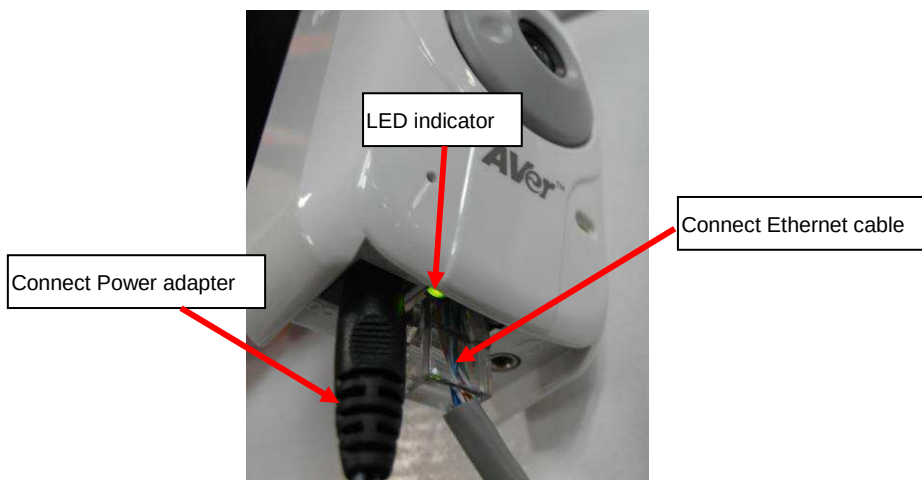
3.1 Package Contents

Item	Descriptions
	1. SF2012H-C
	2. Stand box
	3. Ethernet cable
	4. Power Adaptor(DC 12V/1A) (Optional)
	5. CD (User's Manual and Quick Guide included)

**If any of the above items are missing, please contact your dealer immediately.

3.2 Hardware Installation

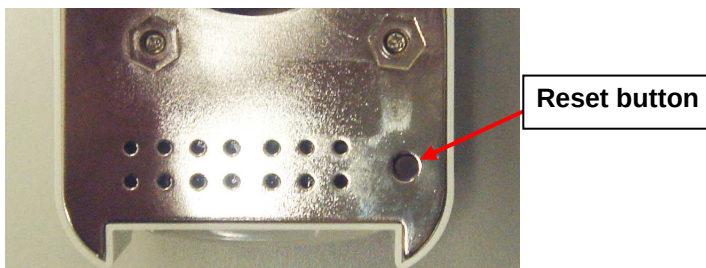
1. Connect power adapter.
2. Connect IP camera to PC or network with Ethernet cable.



3. Set up the network configurations according to the network environment.

3.3 Factory Default

1. To recover the default IP address and password, please follow the following steps.
2. Remove power, and press and hold the button in the back of the IP camera.



3. Power on the camera. Don't release the button during the system booting.
4. It will take around 30 seconds to boot the IP camera.
5. Release the button when camera finishes proceed.
6. Re-login the camera using the default IP (**192.168.1.200**), and user name (**admin**), password (**admin**).

4. Dome Type IP Camera

4.1 Package Contents

4.1.1 SF2012H-D

Item	Descriptions
	1. SF2012H-D
	2. Accessory pack
	3. Ethernet cable
	4.. RJ45 socket
	5. Power Adaptor(DC 12V/1A) (Optional)
	6. CD (User's Manual and Quick Guide included)

**If any of the above items are missing, please contact your dealer immediately.

4.1.2 SF2012H-DV

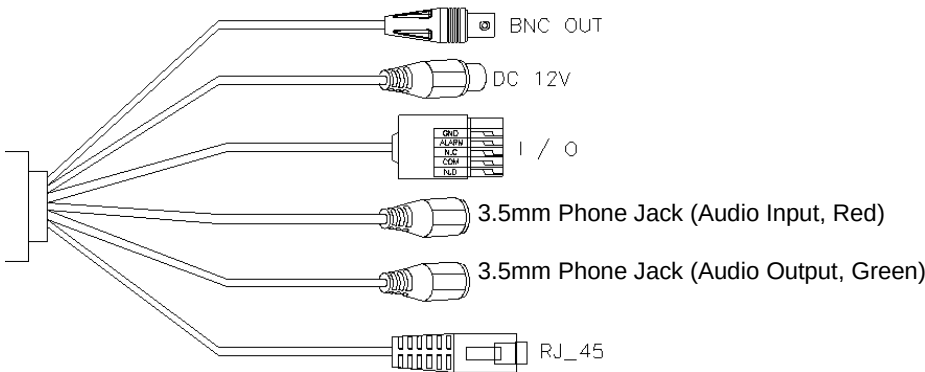
Item	Descriptions
	1. SF2012H-DV
	2. Accessory pack
	3. Ethernet cable
	4. RJ45 socket
	5. Power Adaptor(DC 12V/1A) (Optional)
	6. CD (User's Manual and Quick Guide included)

**If any of the above items are missing, please contact your dealer immediately

4.2 Hardware Installation

4.2.1 SF2012H-D

1. Connect a power adapter and IP camera to PC or local network.



3. I/O Control Instruction

I/O terminal connector – used in application, for e.g., motion detection, event triggering, alarm notifications. It provides the interface to:

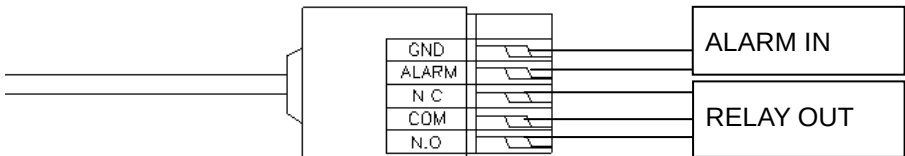
- Digital Input (GND+Alarm) : An alarm input for connecting devices that can toggle between an open and closed circuit, for

1. GND (Ground) : Initial state is LOW
2. Alarm : Max. 50mA, DC 3.3V

Example: PIRs, door/window contacts, glass break detectors, etc. When a signal is received the state changes and the input becomes active.

- Relay output (COM +N.O.) / (COM+N.C.) : An output to Relay switch, for example: LEDs, Sirens, etc

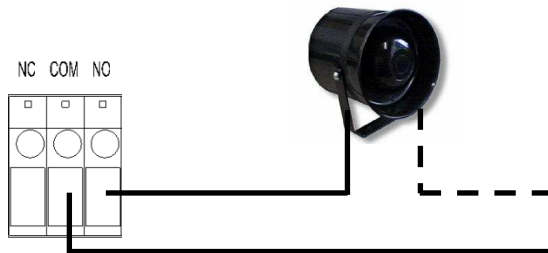
1. N.C. (Normally Close): Max. 1A, DC24V or 0.5A, AC125V
2. COM: (Common)
3. N.O. (Normally Open): Max. 1A, DC24V or 0.5A, AC125V



[Example]

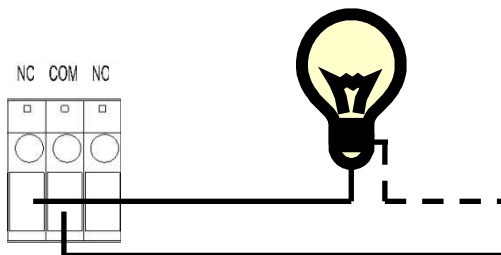
RELAY INSTALLATION EXAMPLE 1

Trigger a “Normal OFF” (Normal Open) alarm siren on when event/motion occur:



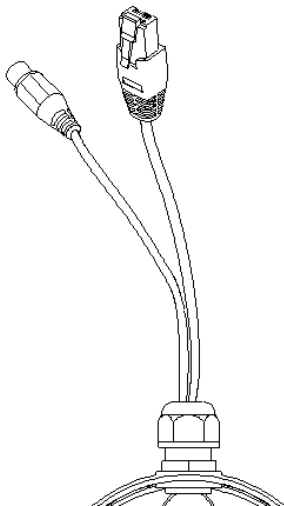
RELAY INSTALLATION EXAMPLE 2

Trigger the “Normal ON” (Normal Close) indoor illumination off when event / motion occur:



4.2.2 SF2012H-DV

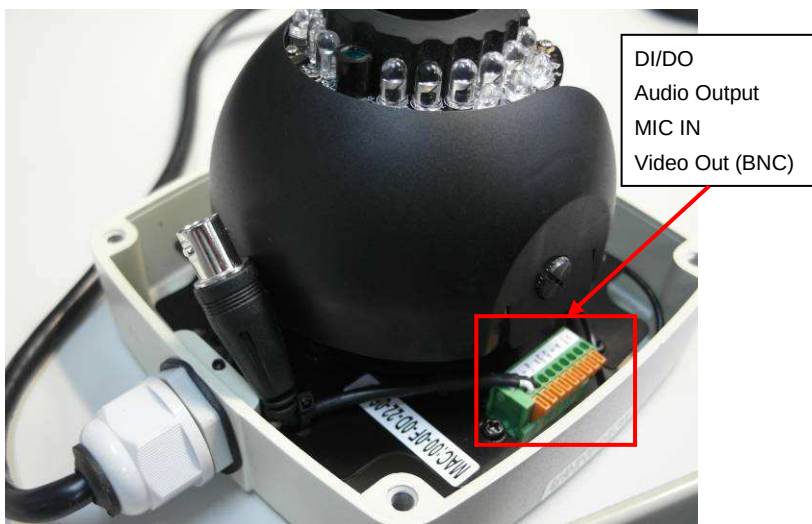
1. Connect a power adapter and IP camera to PC or local network.



2. 3-Axis Gimbals Adjustments

Once the users open the case, the gimbals adjustment offers the convenience method to install on the wall. The pan, tilt, and rotation are provided in this model. The users can adjust the gimbals with Pan 175 degrees, tilt 75 degrees, and rotation 180 degrees respectively.

3. I/O Interface



4. I/O Control Instruction

I/O terminal connector – used in application, for e.g., motion detection, event triggering, alarm notifications. It provides the interface to:

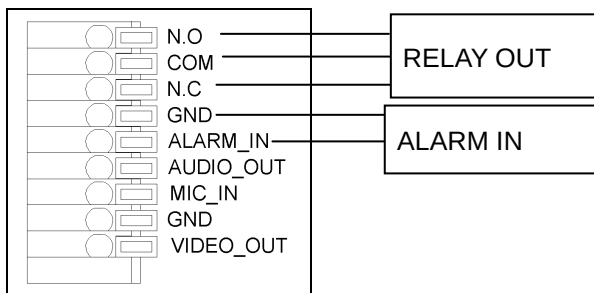
- Digital Input (GND+Alarm) : An alarm input for connecting devices that can toggle between an open and closed circuit, for

1. GND (Ground) : Initial state is LOW
2. Alarm : Max. 50mA, DC 3.3V

Example: PIRs, door/window contacts, glass break detectors, etc. When a signal is received the state changes and the input becomes active.

- Relay output (COM +N.O.) / (COM+N.C.) : An output to Relay switch, for example: LEDs, Sirens, etc

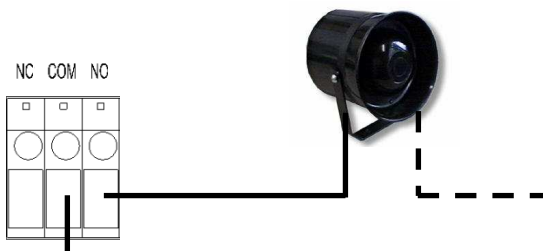
1. N.C. (Normally Close): Max. 1A, DC24V or 0.5A, AC125V
2. COM: (Common)
3. N.O. (Normally Open): Max. 1A, DC24V or 0.5A, AC125V



[Example]

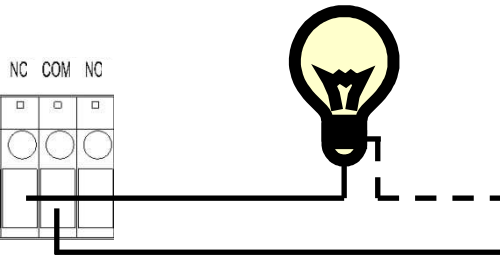
RELAY INSTALLATION EXAMPLE 1

Trigger a “Normal OFF” (Normal Open) alarm siren on when event/motion occur:



RELAY INSTALLATION EXAMPLE 2

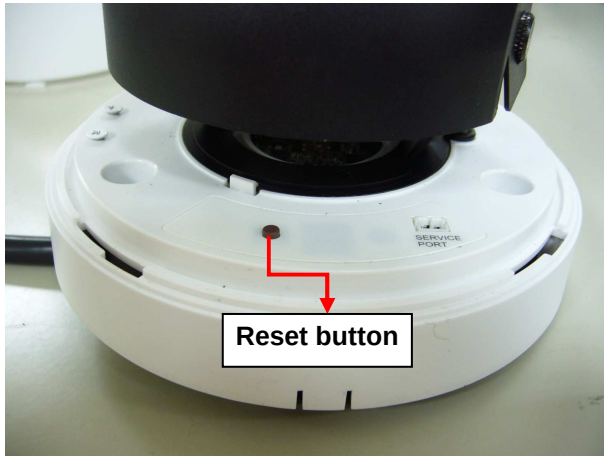
Trigger the “Normal ON” (Normal Close) indoor illumination off when event / motion occur:



4.3 Factory Default

4.3.1 SF2012H-D

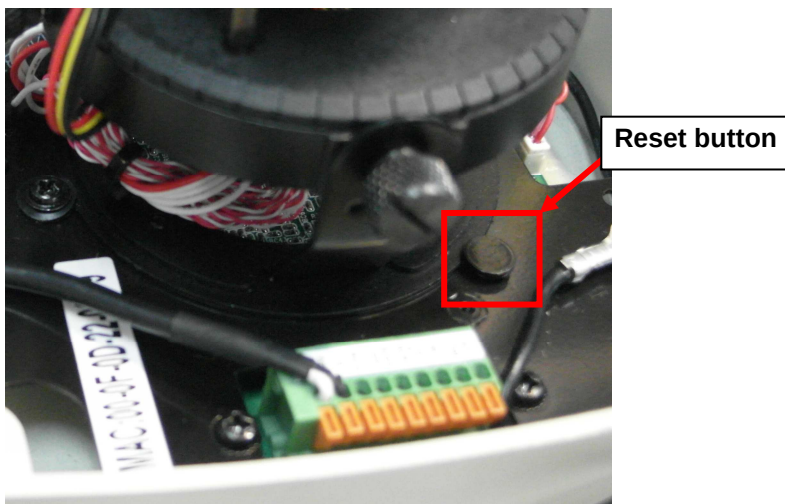
1. If the user name, password, and IP address are lost, please follow the following instructions.
2. Unplug the power adapter first. Then, press the following button in the back of IP camera.



3. Plug in the power adapter and do not release the button during the IP camera booting.
4. It will take around 30 seconds to boot the IP camera.
5. Release the button after the IP camera finishes booting.
6. Reconnect the IP camera with the default IP address (**192.168.1.200**), user name (**admin**), and password (**admin**).

4.3.2 SF2012H-DV

1. To recover the default IP address and password, please follow the following steps.
2. Remove power, press and hold the button. Please refer to the picture below.



3. Power on the camera. Don't release the button during the system booting.
4. It will take around 30 seconds to boot the IP camera.
5. Release the button when camera finishes proceed.
6. Re-login the camera using the default IP (<http://192.168.1.200>), and user name (admin), password (admin).

4.4 SD card Compatibility List

The SF2012H series IP cameras are compliant with SD/SDHC card and to ensure recording quality, and please use memory cards over 2G and Class 4 above (Max. 32G)

Micro SD/SDHC card	SD/SDHC
Transcend SDHC class4 16GB	Transcend SDHC Class 4 16GB
Transcend SD class4 16GB	Transcend SD Class 4 16GB
Transcend SDHC class4 32GB	Transcend SDHC Class 4 32GB
Transcend SD class4 32GB	Transcend SD Class 4 32GB
Transcend SD class6 4GB	Transcend SD Class 6 4GB
Transcend SDHC class6 4GB	Transcend SDHC Class 6 4GB
Transcend SD class6 8GB	Transcend SD Class 6 8GB
Transcend SDHC class6 8GB	Transcend SDHC Class 6 8GB
Transcend SD class6 16GB	Transcend SD Class 6 16GB
Transcend SDHC class6 16GB	Transcend SDHC Class 6 16GB
Transcend SDHC class10 4GB	Transcend SDHC Class10 4GB
Transcend SDHC class10 8GB	Transcend SDHC Class10 8GB
Transcend SDHC class10 16GB	Transcend SDHC Class10 16GB
SanDisk SDHC class4 4GB	SanDisk SDHC Class 4 4GB
SanDisk SDHC class4 8GB	SanDisk SDHC Class 4 8GB
SanDisk SDHC class4 16GB	SanDisk SDHC Class 4 16GB
SanDisk SDHC class4 32GB	SanDisk SDHC Class 4 32GB

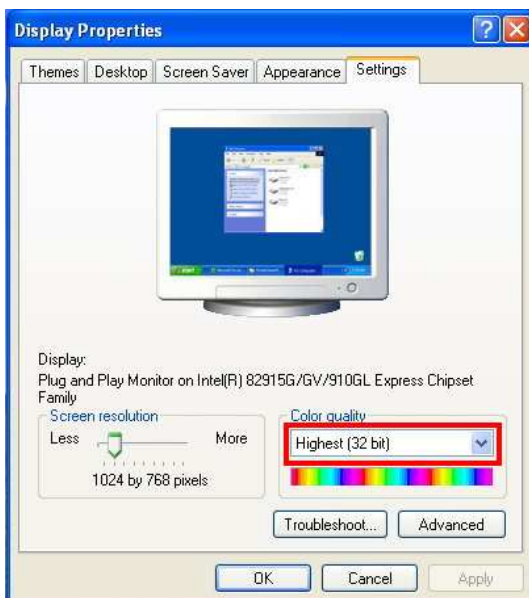
- SF2012H/SF2012H-D: SDHC/SD card
- SF2012H-B/SF2012H-DV/SF2012-C: Micro SDHC/SD card

II. Monitor Setting

1. Right-click on the desktop. Select “ **Properties**”



2. Change “Color quality” to “**Highest (32-bit)**”.



III. IP Assignment

1. Use the software, “**IP Installer**” to assign the IP address of the IP camera. The software is in the attached software CD.
2. IP installer supports two languages
 - **IPInstallerCht.exe**: Traditional Chinese version
 - **IPInstallerEng.exe**: English version
3. There are 3 kinds of IP configuration.
 - Fixed IP (Public IP or Virtual IP)
 - DHCP (Dynamic IP)
 - DHCP server/router network automatically assigns IP addresses to devices. You can use the **IP Installer** software in the CD to search for the IP camera(s) in the network.
 - Dial-up (PPPoE)
4. Execute IP Installer
5. For Windows XP* (SP2) users, the following message box may appear. Please click “**Unblock**”.



IP Installer configuration:

Device lists:

Server Name	IP Address
IP_Camera	192.168.001.200

☒ Static ☐ DHCP

Name: IP_Camera

IP: 192 168 1 200

Netmask: 255 255 255 0

Gateway: 192 168 1 254

DNS 1: 168 95 1 1

DNS 2: 168 95 192 1

Port1: 80

MAC: 00:0F:0D:20:08:5A

Search Device Submit

To Change Device Name, IP address, and Gateway:
1. Select the device on the left side.
2. Change network parameter on the right side.
3. Press Submit button.
4. Press "Search Device" to re-search again.
5. Double click the device to open it.

Exit

6. IP Installer will search all IP cameras connected on the LAN. The user can click "**Search Device**" to search again.
7. Click one of the IP cameras listed on the left side. The network configuration for this IP camera will show on the right side. You may change the name of the IP camera to your preference (eg: Office, warehouse) in "**Name**" on the right side.

Using DHCP Server/Router Network

To use DHCP, please check DHCP and click "**Submit**" then click "**OK**". It will apply the change and reboot the Device.



Using NON-DHCP Server/Router Network

In Non-DHCP server/router network, the static IP address must be assigned to the device each time when adding another IP camera to the network; the default IP address of the current one must be changed to avoid conflict.

Please make sure the Subnet of the PC's IP address and the IP camera's IP address are the same.

[Example]

The same Subnet:

IP camera IP address: 192.168.1.200

PC IP address: 192.168.1.100

Different Subnets:

IP camera IP address: 192.168.2.200

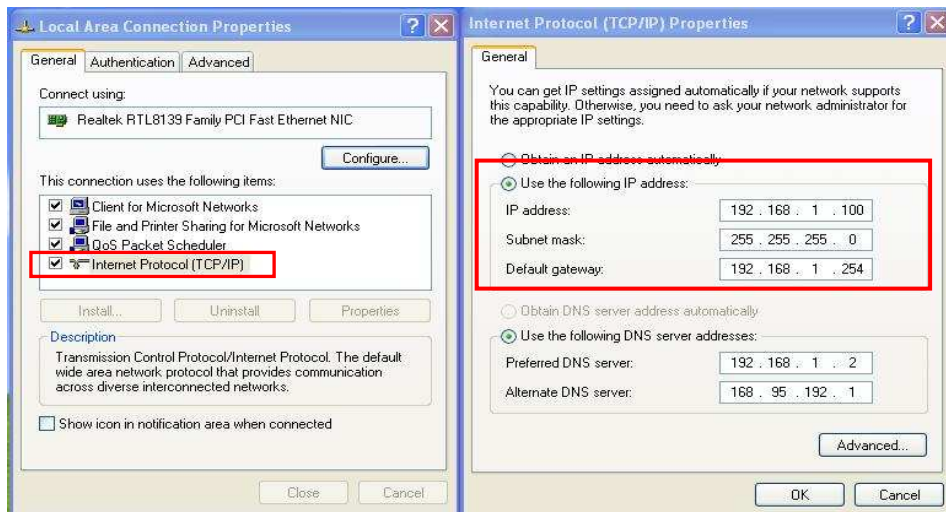
PC IP address: 192.168.1.100

To Change PC IP Address:

Control Panel→Network Connections→Local Area Connection Properties→Internet Protocol (TCP/IP) →Properties

Please make sure your IP camera and PC have the same Subnet. If not, please change IP camera subnet or PC IP subnet accordingly.

PC 'sIP address:



IP camera IP addresses:

IP Installer V2.2

Device lists:

Server Name	IP Address
PV_SF2012H-C_53	192.168.201.053
PV_SF2012H-C_55	192.168.201.055
PV_SF2012H-C_54	192.168.201.054
PV_SF2012H-C_65	192.168.201.065
PV_SF2012H-C_64	192.168.201.064
PV_SF2012H-C_63	192.168.201.063
PV_SF2012H-C_59	192.168.201.059
PV_SF2012H-C_56	192.168.201.056
PV_SF2012H-C_61	192.168.201.061
PV_SF2012H-C_51	192.168.201.051
PV_SF2012H-C_58	192.168.201.058
PV_SF2012H-C_60	192.168.201.060
PV_SF2012H-C_57	192.168.201.057

☒ Static ☐ DHCP

Name: PV_SF2012H-C_55

IP: 192 168 201 55

Netmask: 255 255 255 0

Gateway: 192 168 201 254

DNS 1: 168 95 1 1

DNS 2: 168 95 192 1

Port1: 80

MAC: 00:0F:0D:23:3F:79

To Change Device Name, IP address, and Gateway:
1. Select the device on the left side.
2. Change network parameter on the right side.
3. Press Submit button.
4. Press ISearch Device to re-search again.
5. Double click the device to open it.

8. A quick way to access remote monitoring is to left-click the mouse twice on a selected IP camera in "Device lists" in IP Installer. Upon doing so, the Internet Explorer browser should open.

IP Installer V2.2

Device lists:

Server Name	IP Address
IP_Camera	192.168.001.165

☒ Static ☐ DHCP

Name: IP_Camera

IP: 192 168 1 165

Netmask: 255 255 255 0

Gateway: 192 168 1 254

DNS 1: 168 95 1 1

DNS 2: 168 95 192 1

Port1: 80

MAC: 00:0F:0D:00:21:0F

To Change Device Name, IP address, and Gateway:
1. Select the device on the left side.
2. Change network parameter on the right side.
3. Press Submit button.
4. Press "Search Device" to re-search again.
5. Double click the device to open it.

9. Then, please key in the default **"User name"** and **"Password"**, both of which are **"admin"**.



IV. Connecting the IP Camera

Launch the Internet Explorer browser, type the IP address of the IP camera in the address field. It will show the following dialogue box. Key-in the "ID" and "Password". The default "ID" and "Password" are both "admin".



Once connected to the IP camera, the following program interface will appear.



FCC NOTICE (Class B)



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Federal Communications Commission Statement

NOTE- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

European Community Compliance Statement (Class B)



This product is herewith confirmed to comply with the requirements set out in the Council Directives on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive 2004/108/EC.

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NOTICE

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE. THE INFORMATION CONTAINED HEREIN IS TO BE CONSIDERED FOR REFERENCE ONLY.

WARNING

TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. WARRANTY VOID FOR ANY UNAUTHORIZED PRODUCT MODIFICATION.



THE MARK OF CROSSED-OUT WHEELED BIN INDICATES THAT THIS PRODUCT MUST NOT BE DISPOSED OF WITH YOUR OTHER HOUSEHOLD WASTE. INSTEAD, YOU NEED TO DISPOSE OF THE WASTE EQUIPMENT BY HANDING IT OVER TO A DESIGNATED COLLECTION POINT FOR THE RECYCLING OF WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT. FOR MORE INFORMATION ABOUT WHERE TO DROP OFF YOUR WASTE EQUIPMENT FOR RECYCLING, PLEASE CONTACT YOUR HOUSEHOLD WASTE DISPOSAL SERVICE OR THE SHOP WHERE YOU PURCHASED THE PRODUCT.

Limited Warranty

AVer Information, Inc. ("AVer") warrants that the applicable product ("Product") substantially conforms to AVer's documentation for the product and that its manufacture and components are free of defects in material and workmanship under normal use. "You" as used in this agreement means you individually or the business entity on whose behalf you use or install the product, as applicable. This limited warranty extends only to You as the original purchaser. Except for the foregoing, the Product is provided "AS IS." In no event does AVer warrant that You will be able to operate the Product without problems or interruptions, or that the Product is suitable for your purposes. Your exclusive remedy and the entire liability of AVer under this paragraph shall be, at AVer's option, the repair or replacement of the Product with the same or a comparable product. This warranty does not apply to (a) any Product on which the serial number has been defaced, modified, or removed, or (b) cartons, cases, batteries, cabinets, tapes, or accessories used with this product. This warranty does not apply to any Product that has suffered damage, deterioration or malfunction due to (a) accident, abuse, misuse, neglect, fire, water, lightning, or other acts of nature, commercial or industrial use, unauthorized product modification or failure to follow instructions included with the Product, (b) misapplication of service by someone other than the manufacturer's representative, (c) any shipment damages (such claims must be made with the carrier), or (d) any other causes that do not relate to a Product defect. The Warranty Period of any repaired or replaced Product shall be the longer of (a) the original Warranty Period or (b) thirty (30) days from the date of delivery of the repaired or replaced product.

Limitations of Warranty

AVer makes no warranties to any third party. You are responsible for all claims, damages, settlements, expenses, and attorneys' fees with respect to claims made against You as a result of Your use or misuse of the Product. This warranty applies only if the Product is installed, operated, maintained, and used in accordance with AVer specifications. Specifically, the warranties do not extend to any failure caused by (i) accident, unusual physical, electrical, or electromagnetic stress, neglect or misuse, (ii) fluctuations in electrical power beyond AVer specifications, (iii) use of the Product with any accessories or options not furnished by AVer or its authorized agents, or (iv) installation, alteration, or repair of the Product by anyone other than AVer or its authorized agents.

Disclaimer of Warranty

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