



SF2111H IP Camera Series

SF2111H-R/SF2111H-BR

SF2111H-DR/SF2111H-DVR

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 (SF2111H-R)

1.1 Package Contents

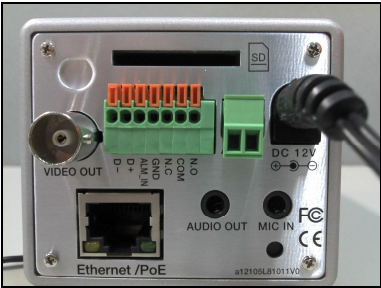
Item	Descriptions
	1. SF2111H-R
	2. Accessory pack
	3. Ethernet cable
	4. Power Adapter (DC12V/1A) (Optional)

Item	Descriptions
	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

1. Connect power adapter or use PoE to eliminate the use of power cable.

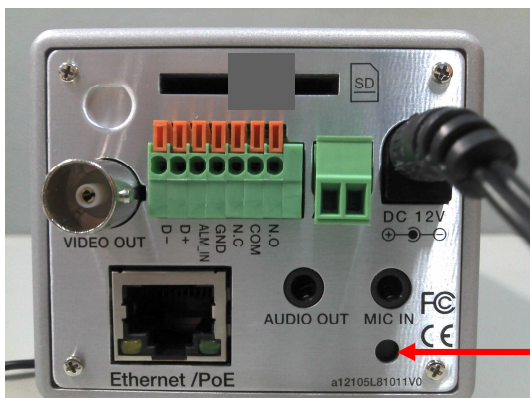


2. Connect IP camera to PC or network with Ethernet cable.



1.3 Factory Default

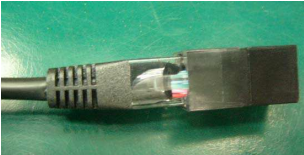
1. To recover the default IP address and password, please follow the following steps.
2. **Remove power**, press and hold the button in the back of IP camera.



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

2. Bullet Type IP Camera (SF2111H-BR)

2.1 Package Contents

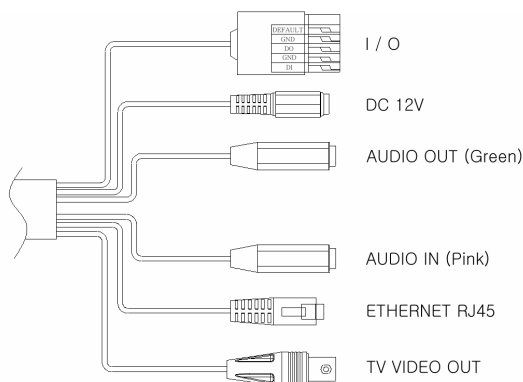
Item	Descriptions
	1. SF2111H-BR
	2. Stand (The stand is well assembled while shipped out)
	3. Accessory pack
	4. Ethernet cable
	5. RJ45 socket
	6. Power Adapter(DC 12V /1A)(Optional)

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

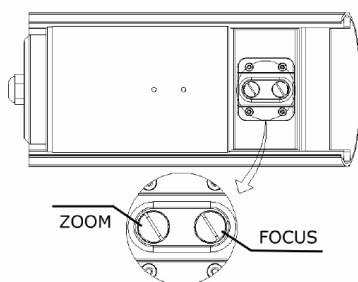
**If any of the above items are missing, please contact your dealer immediately.

2.2 Hardware Installation

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



2. The SF2111H-BR is equipped with an external vari-focal lens controller. Please adjust “ZOOM” and “FOCUS” as following picture until the image gets clear.



3. I/O Control Instruction

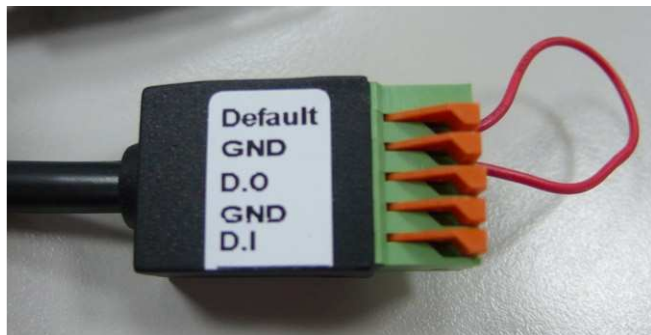
I/O terminal connector – used in application, for e.g., motion detection, event triggering, alarm notifications. It provides the interface to:

- 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 5V

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

2.3 Factory Default

1. Remove the Ethernet cable and power adapter.
2. Take an electronic wire, plug one side of the wire into “Default” and the other side into “GND” on the terminal block as the photo below.
3. Connect power again and connect Ethernet cable after the camera finishes rebooting..
4. Remove the wire. 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>) or DHCP, and user name (admin), password (admin).



3. Dome Type IP Camera

3.1 Package Contents

3.1.1 SF2111H-DR

Item	Descriptions
	1. SF2111H-DR
	2. Accessory pack
	3. RJ45 socket
	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.

3.1.2 SF2111H-DVR

Item	Descriptions
------	--------------

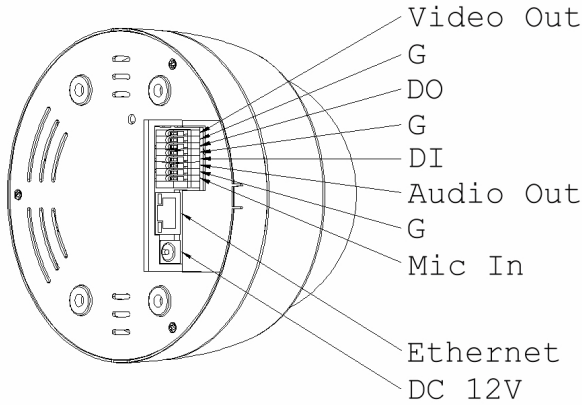
	1. SF2111H-DVR
	2. Accessory pack
	3. RJ45 socket
	4. Power Adaptor(DC 12V/1A) (Optional)
	5. CD (User's Manual and Quick Guide included)

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

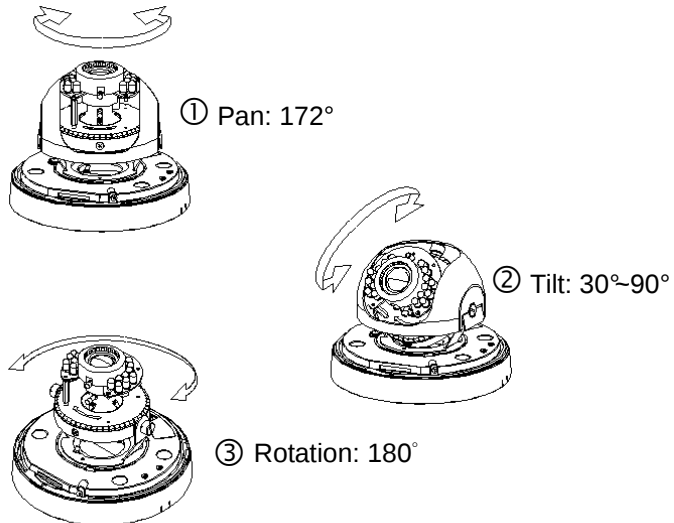
3.2 Hardware Installation

3.2.1 SF2111H-DR

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

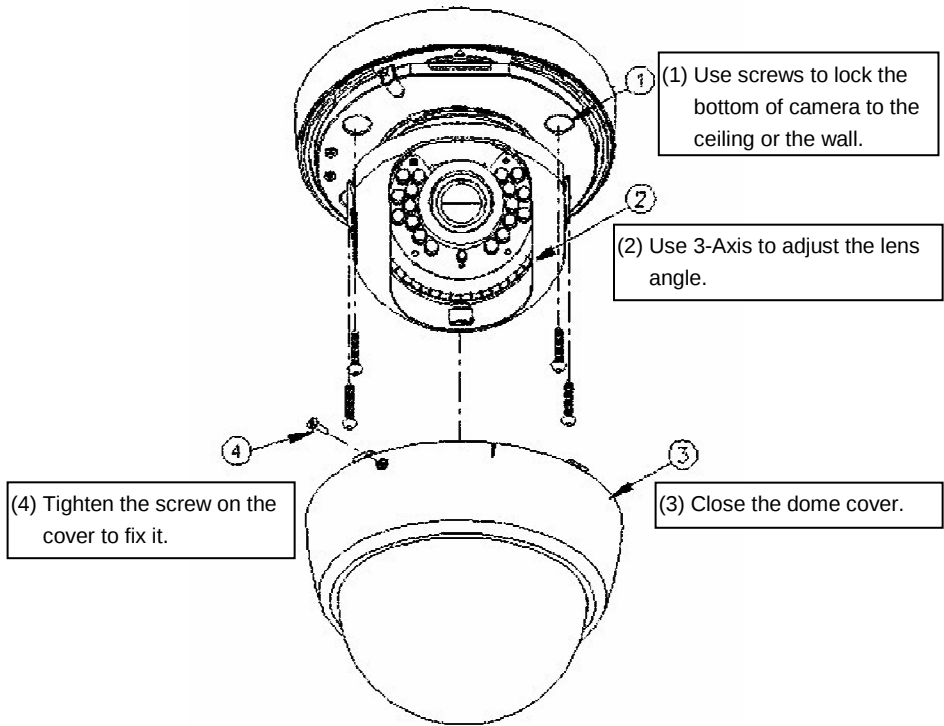


2. 3-Axis Gimbals Adjustments



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 172 degrees, tilt 30~90 degrees, and rotation 180 degrees respectively.

3. Installation steps



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:

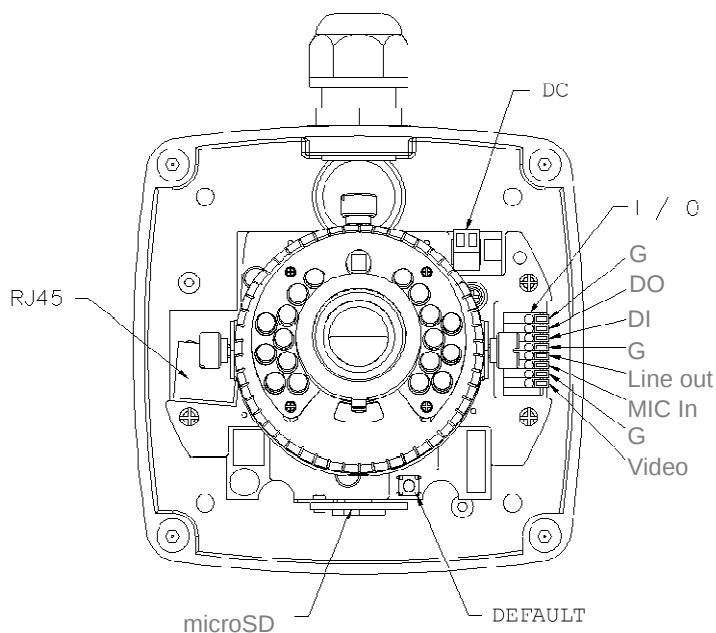
- Digital Input (GND+Alarm) : An alarm input for connecting devices that can toggle between an open and closed circuit, for

1. GND (Ground) : Initial state is LOW
2. Alarm : Max. 50mA, DC 5V

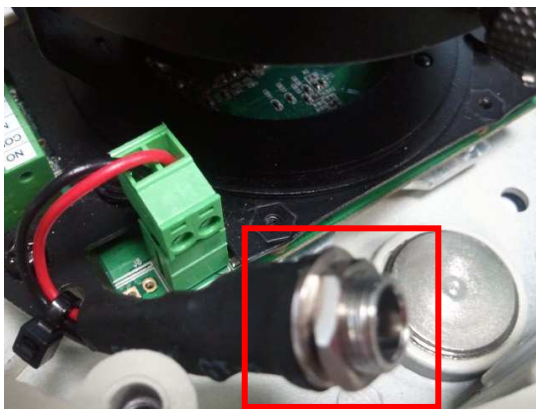
Example: PIRs, door/window contacts, glass break detectors, etc. When a signal is received the state changes and the input becomes active.

3.2.2 SF2111H-DVR

1. Remove the dome cover, and you will see the structure as below.



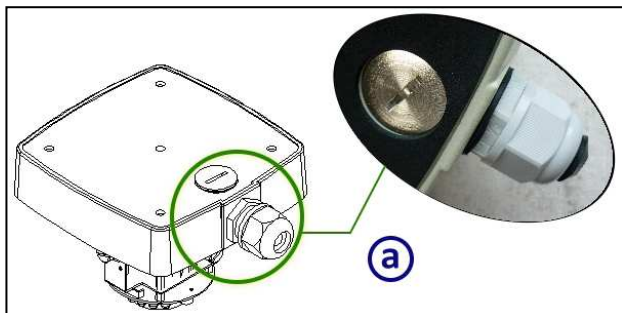
2. Connect power adaptor, then connect the IP camera to PC or network. Set up the network configurations according to the network environment. The following picture shows a DC 12V connector for adapter jack plug.



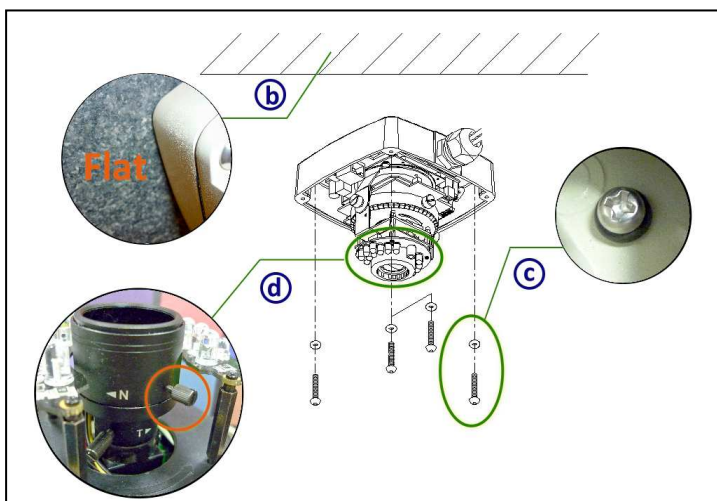
3. Installation Tips

In order to ensure IP66 waterproof level, please install the vandal dome according to the instruction.

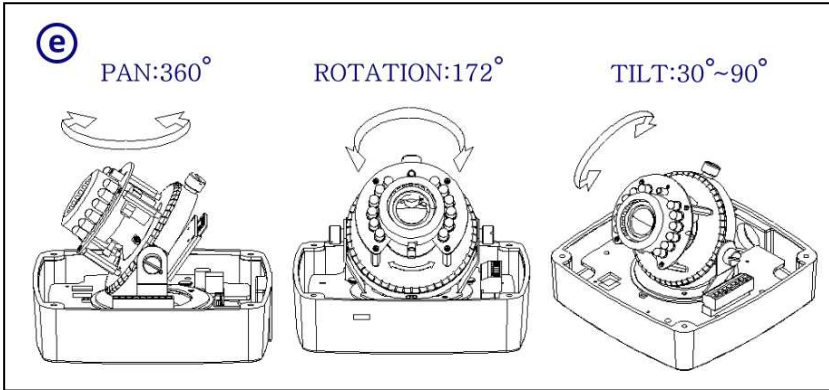
- a. The Unused cable outlet hole must be closed, and the waterproof connector on the used hole must be locked closely



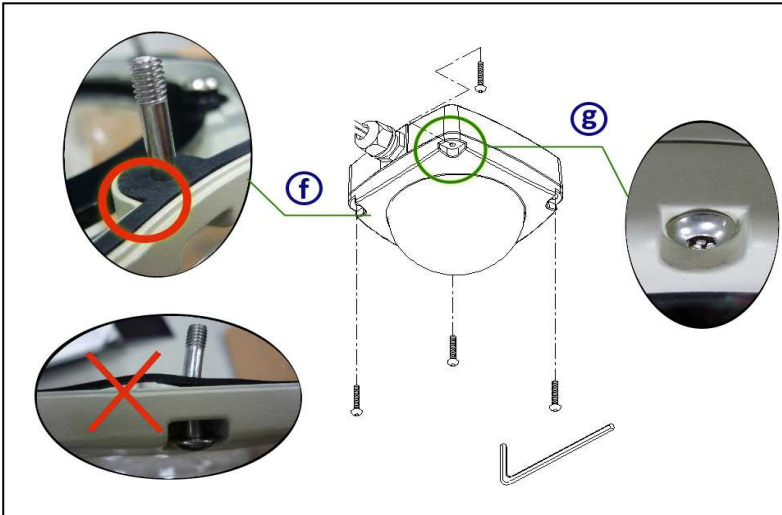
- b. We recommend the bottom of housing be set on the smooth flat and closely seal with the surface.
- c. When you mount the camera housing on the ceiling or wall, please use the screws with the black rubber o-rings. Without the o-ring, the water may seep into the machine.
- d. Turn and loose the control stick, shift right and left to adjust the vari-focal lens until the image becomes clear, then turn and tighten the stick to fix it.



- e. Use the 3-Axis bracket to adjust the camera to appropriate angle.



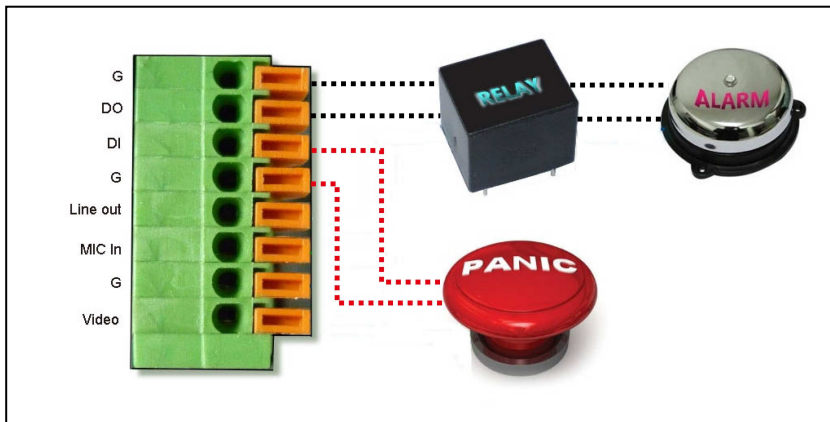
- f. Before you close the dome cover, make sure that the black rubber band sticks to the inside of the cover completely. Crook or uneven rubber band may cause the waterproof defective.
- g. Lock tightly the screws on the dome cover to ensure there's no gap between the lid and base.



4. I/O Interface

I/O Connection

- Please connect the GND & DO pin to the external relay (buzzer) device.
- Please connect the GND & DI pin to the external trigger device



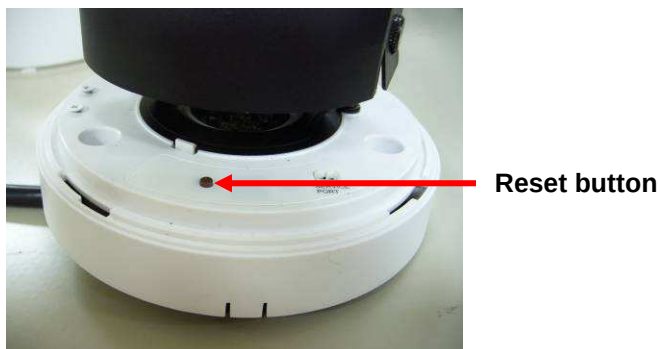
c. I/O PIN definition

- GND (Ground): Initial state is LOW
- DO (Digital Output): DC 5V
- DI (Digital Input): Max. 50mA, DC 5V

3.3 Factory Default

3.3.1 SF2111H-DR

1. To recover the default IP address and password, please follow the following steps.
2. Remove power, and 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 camera.
5. Release the button when camera finishes proceed.
6. Re-login the camera using the default IP (<http://192.168.1.200>) or DHCP, and user name (**admin**), password (**admin**).

3.3.2 SF2111H-DVR

1. To recover the default IP address and password, please follow the following steps.
2. Remove power and Ethernet cable, press and hold the button for 10 sec. Please refer to the picture below.



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

4. SD card Compatibility List

SF2111H series is compliant with microSD/SDHC card and to ensure recording quality, and please use memory cards over 2G and Class 4 above (Max. 32G)

microSD/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

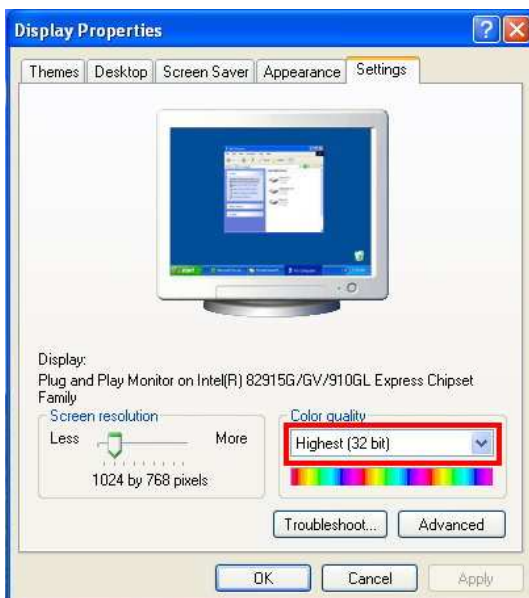
- SF2111H-R/SF2111H-DR: SDHC/SD card
- SF2111H-BR/SF2111H-DVR: microSDHC/SD card

II. Monitor Setting

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



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



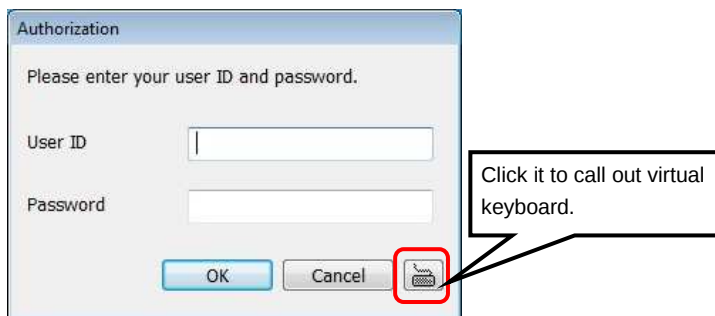
III. IP Assignment

There are two ways to find IP Camera:

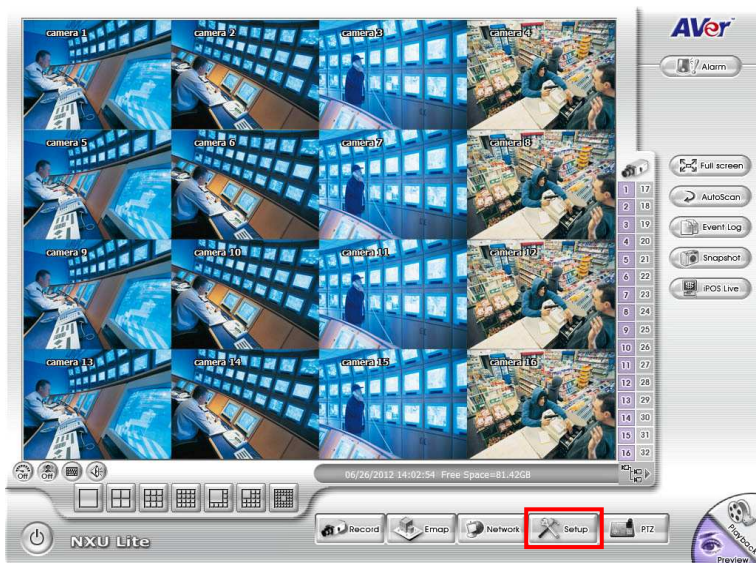
- Finding IP Camera by using “NXU Lite recording software”
- Finding IP Camera by using “IP installer”

Finding IP Camera by using “NXU Lite recording software”

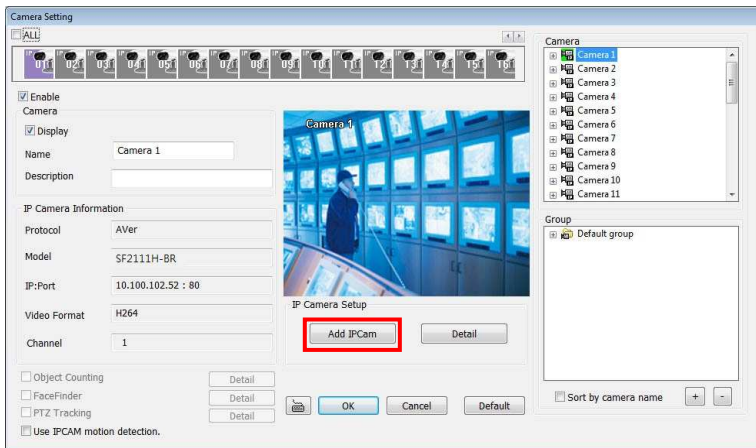
1. The NXU Lite software is in the attached software CD. Before launching it, please install the software first. During the installing process, users will be required to input a User name and Password for login NXU Lite system. Users can define the User name and Password as wishes. Please refer to NXU Lite user manual for detailed installation instruction.
2. To run the application, double-click  on your PC desktop or click **Start > Programs > DVR > NXU Lite**. For security purpose, some of the features would require you to enter User name and Password before it can be accessed. When the Authorization dialog box appears, key in your User ID and Password. (If this is the first time, enter the one you have registered when installing the software.



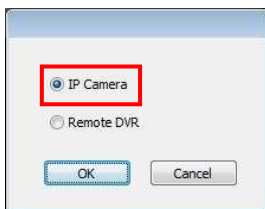
3. Click **"Setup"** button.



4. Click **"Add IPCam"** button.



5. Select **"IP Camera"** item.



6. Key in IP Camera's ID and Password (default is **admin/admin**) and click "**Auto Search**" to find camera.

The 'Add IP Cam' dialog box contains the following fields and controls:

- Auto Search** button
- IP Camera Information** section: F/W: V1.0.28
- Protocol** dropdown: AVer
- Model** dropdown: SF2111H-BR
- Video Format** dropdown: Auto
- Channel** dropdown: 1
- IP Camera Site** text field: 10.100.102.52
- URL** radio button and text field: http://
- Authentication** checkbox: checked
- ID** text field: admin
- Password** text field: masked with dots
- Enable Audio** checkbox: unchecked
- Buttons**: Save & Exit, Connect, Cancel

7. In Search Result window, click it the IP camera model that user has purchased (**Please ignore ONVIF connection item**); the camera is in red text that is configurable. User can double-click on the camera is in red text and configure the IP camera's setting; even the IP camera is not in the same IP segment. Press "**OK**" to back to previous screen and press "**Connect**" to start live view.

The 'Search Result' window displays a table with the following data:

Item	Protocol	Model	IP Cam	Port
1	AVer	SF2111H-BR	192.168.100.2	80
2	ONVIF	SF2111H-BR	http://192.168.100.2:80/onvif/device_ser...	80

Annotations:

- A red box highlights the **Model** column, with a red arrow pointing to the **Model** column header. The text inside the box says: "Double-click the IP camera model that user has purchased (ex: SF2111H-BR, SF2111H-DVR)."
- A text box points to the **ONVIF** protocol entry, stating: "Please ignore ONVIF protocol selection; NXU Lite doesn't support ONVIF connection."

Buttons at the bottom: Searching, OK, Cancel.

Finding IP Camera by using “IP installer”

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: 00:18:1A:0C:1D:EC

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.

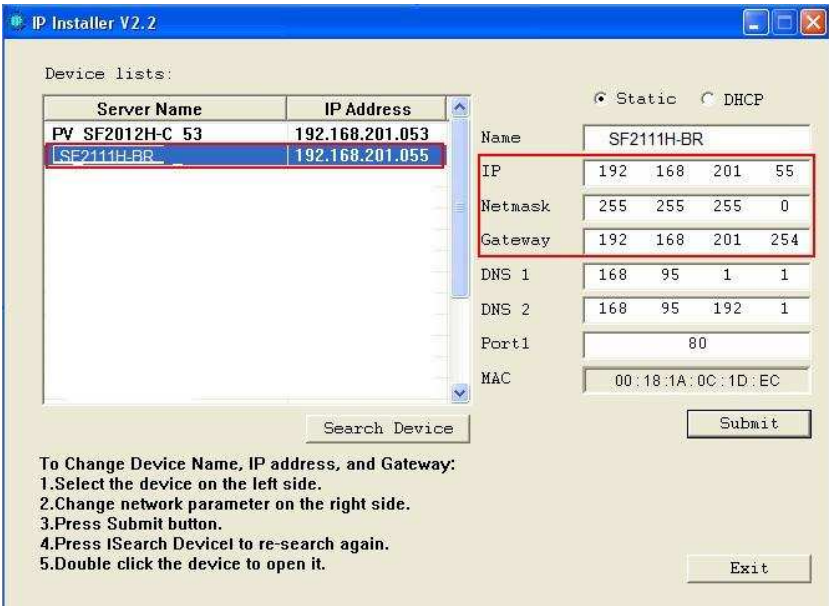
[Note] The server name length has to be less than 15 digits.

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.



Please 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.



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

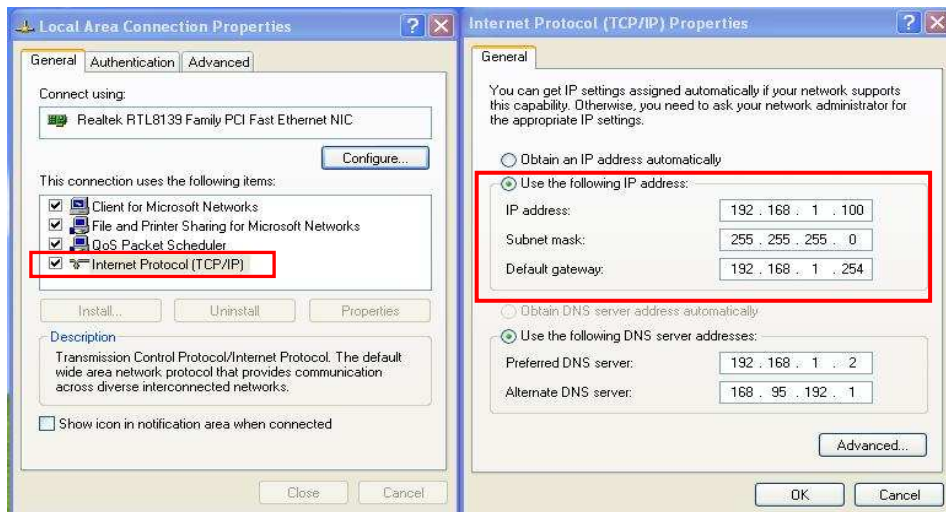
PC IP address: 192.168.1.100

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's IP address:



IP camera IP addresses:

IP Installer V2.2

Device lists:

Server Name	IP Address
PV_SF2012H-C_53	192.168.201.053
PV_SF2111H-BR	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_SF2111H-BR

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 00:18:1A:0C:1D:EC

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

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

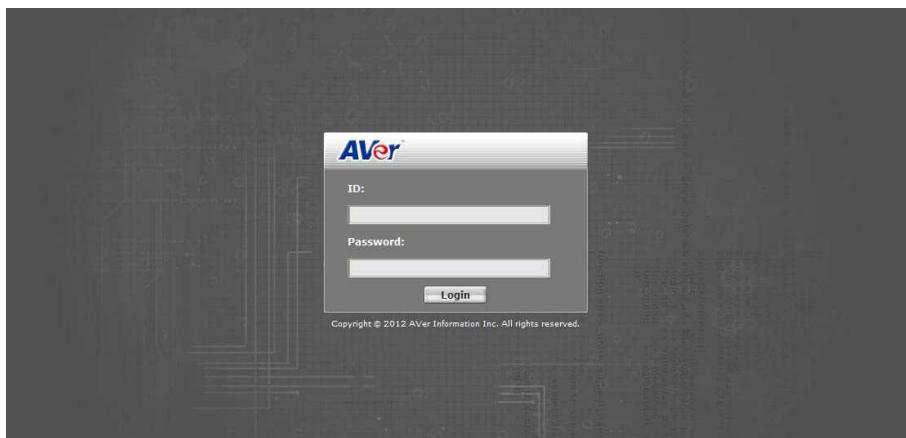
MAC 00:18:1A:0C:1D:EC

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

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.



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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

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