



AVer FV2006

User Manual



Table of Contents

PREFACE	1
PRODUCT SPECIFICATIONS	1
PACKAGE CONTENTS	4
PRODUCT INSTALLATION	5
MONITOR SETTING	5
HARDWARE INSTALLATION AND I/O PIN ASSIGNMENT	6
POWER OVER ETHERNET (PoE)	9
IP ASSIGNMENT	10
FINDING IP CAMERA BY USING "NXU LITE RECORDING SOFTWARE"	10
FINDING IP CAMERA BY USING "AVER IPCAM UTILITY"	13
USING NON-DHCP SERVER/ROUTER NETWORK.....	15
INSTALL ACTIVE X CONTROL	17
USING THE IP CAMERA BROWSER INTERFACE	19
PREVIEW	19
SYSTEM > GENERAL	22
SYSTEM > GENERAL > MAINTENANCE.....	22
To Upgrade the IP Camera Firmware	23
SYSTEM > GENERAL > DATE & TIME.....	24
SYSTEM > USER MANAGEMENT	25
SYSTEM > USER MANAGEMENT	25
SYSTEM > NETWORK SETTING > SETTING.....	27

SYSTEM > NETWORK SETTING > SEVER	28
SYSTEM > NETWORK SETTING > DDNS	29
SYSTEM > NETWORK SETTING > OTHER 1	31
SYSTEM > NETWORK SETTING > OTHER 2	33
SYSTEM > NETWORK SETTING > IPV6	37
SYSTEM > ADVANCE > HTTPS	38
SYSTEM > ADVANCE > SNMP	40
SYSTEM > ADVANCE > ACCESS LIST	42
SYSTEM > ADVANCE > QoS/DSCP	43
SYSTEM > IMAGE	44
SYSTEM > IMAGE> OSD	44
SYSTEM > IMAGE > PREFERENCE	45
SYSTEM > IMAGE> ADVANCED	46
SYSTEM > IMAGE> PRIVACY MASK	48
SYSTEM > VIDEO STREAM > GENERAL	49
SYSTEM > VIDEO STREAM > STREAM1	49
SYSTEM > VIDEO STREAM > STREAM2	51
SYSTEM > VIDEO STREAM > STREAM3	53
SYSTEM > AUDIO	54
SYSTEM > SD CARD	55
EVENT > ARRANGEMENT > MOTION	56
EVENT > ARRANGEMENT > PREFERENCE	57
EVENT > SCHEDULE	58
EVENT > DI/DO	59
STATUS INFORMATION	60

NETWORK CONFIGURATION61

FACTORY DEFAULT63

TROUBLESHOOTING64

APPENDIX65

COPYRIGHT66

NOTICE.....66

WARNING66

GOVERNING LAW AND YOUR RIGHTS68

Preface

The FV2006 is an H.264, 10800p super min vandal proof dome camera designed ultra-discreet, recessed-mount and super mini dimension (Φ :80mm) for indoor and outdoor use. FV2006 is specifically developed for, offering discreet video surveillance solutions, ideal for ATM, banks, retail stores, boutiques and elevators. Rated to **IP66**, FV2006 gives you the flexibility of a camera that can withstand both dust and driving rain.

Product Specifications

- 2-Mega pixel, vandal proof dome
- HD Definition (1080p) 25fps support
- Digital Wide Dynamic Range
- Power over Ethernet (PoE)
- H.264/MJPEG/MPEG-4 compression formats
- microSD/SDHC card backup (SD card is not included)
- 2-way audio
- Adjustable shutter speed
- Support iPhone/ iPad/ Android phone and PAD
- Free bundled 32-CH AVer NXU Lite recording software

Specifications

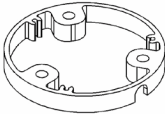
Hardware	
CPU	ARM 9, 32-bit RISC
RAM	128MB
Flash	16M
Image sensor	1/3.2" 5 Megapixels CMOS
Shutter time	1 / 5 ~ 1 / 10,000 sec
Lens Type	3.6 mm@F1.6, fixed lens
Shutter time	1/5~1/10,000
I/O	1 Sensor in /1 Relay out
MIC in	1
Audio Out	1
Power Over Ethernet	Yes
Power Consumption	DC12V : 2.04W PoE : 2.88W

Hardware	
2-Axis Gimbal Adjustments Angle	Pan: 360° Tilt: 20° ~ 90°
Dimensions	Φ80 x 67 (mm)
Operation Temperature	0℃ ~ 45℃
Weight	350g
Network	
Ethernet	10/100 Base-T
Network Protocol	IPv6, IPv4, HTTP, HTTPS, SNMP, QoS/DSCP, Access list, RTSP, TCP/IP, UDP, SMTP, FTP, PPPoE, DHCP, DDNS, NTP, UPnP, 3GPP (video only), SAMBA, Bonjour
System	
Video Resolution	1920x1080@25fps, 1280x720@30fps ,640x480@30fps, 176x144@30fps
Video Adjust	Brightness, Contrast, Sharpness, D-WDR, Shutter Speed, Sense-Up, AGC..etc.
Triple Streaming	Yes
Image snapshot	Yes
Full screen monitoring	Yes
Privacy Mask	Yes, 3 different areas
Compression format	H.264/ JPEG/ MPEG-4
Video bitrate adjust	CBR, VBR
Motion Detection	Yes, 3 different areas
Triggered action	Mail, FTP, Save to microSD/SDHC card, Relay, SAMBA
Pre/ Post alarm	Yes (Pre: 5 secs/ Post: 5 secs)

System	
Security	Password protection, IP address filtering, HTTPS encrypted data transmission, QoS/DSCP
Firmware upgrade	HTTP mode, can be upgraded remotely
Simultaneous connection	Up to 10
Audio	Yes, 2-way (mono)
MicroSD/SDHC card management	
Recording trigger	Motion Detection, IP Check, Network Status (wired Connection only), Schedule,
Video format	AVI, JPEG
Video playback	Yes
Delete files	Yes
Web browsing requirement	
OS	Windows® XP (32-bit), 7 (32/64-bit) Microsoft® IE 6.0 or above (32-bit only) Notes: Please enable "Compatibility View" while using IE 10 or above.
Hardware Suggested	Intel® Dual Core 2.53GHz, RAM: 1024MB, Graphics Card: 128MB
Mobil support	iOS 5 or above, Android 1.6 or above.

***SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.**

Package contents

Item	Descriptions
	1. FV2006
	2. Accessory pack
	3. Conversion ring
	4. Power Adaptor(DC 12V/0.5A) (Optional)
	5. CD (User's Manual, Quick Guide, and NVR software are included)

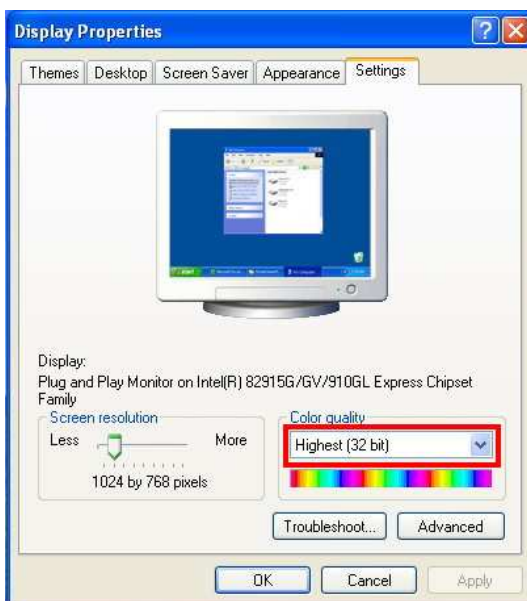
Product Installation

Monitor Setting

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



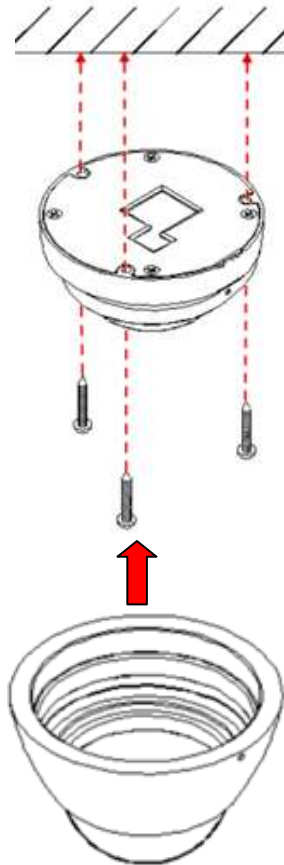
2. Change “Color quality” to “**Highest (32-bit)**”.



Hardware Installation and I/O Pin Assignment

1. Set the camera

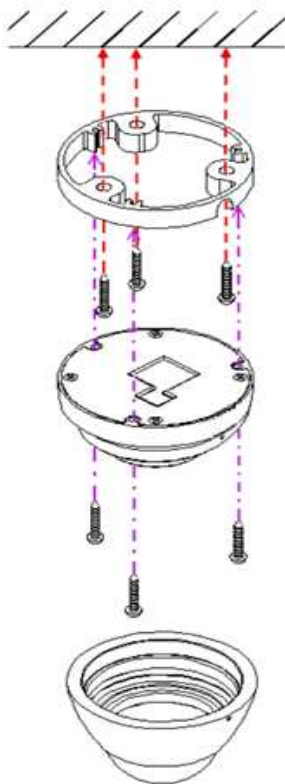
- Locate cable from bottom
 - a. Use three screws to lock the base of camera on the ceiling or the wall.
 - b. Put back the cover, and turn it tightly to get waterproof.



Installation tip: Please don't open the top cover for too long if you install the camera under a high humidity environment

Locate cable from side

- Open the conversion ring package in accessory. It includes a conversion ring and two set of screws.
- Use three screws to lock the conversion ring on the ceiling or the wall.
- Use three screws to combine the base of camera with the conversion ring. The cable can pass through the hole on the side of conversion ring.
- Put back the cover, and turn it tightly to get waterproof.



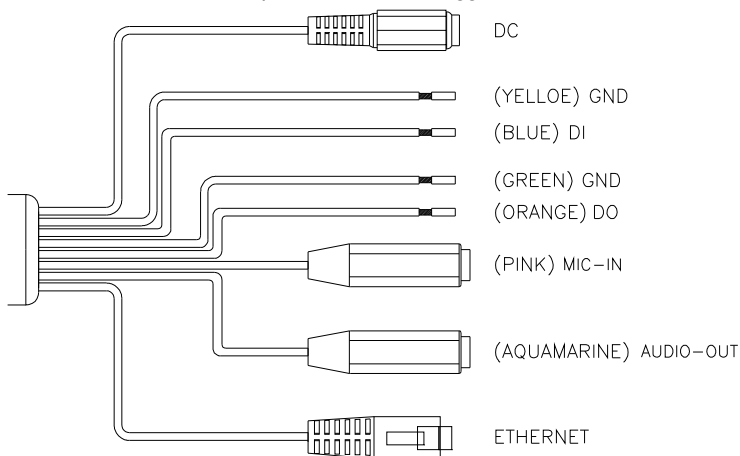
2. When removing the dome cover, you can see the Micro SD card slot and the reset button.



3. I/O Interface

I/O Connection

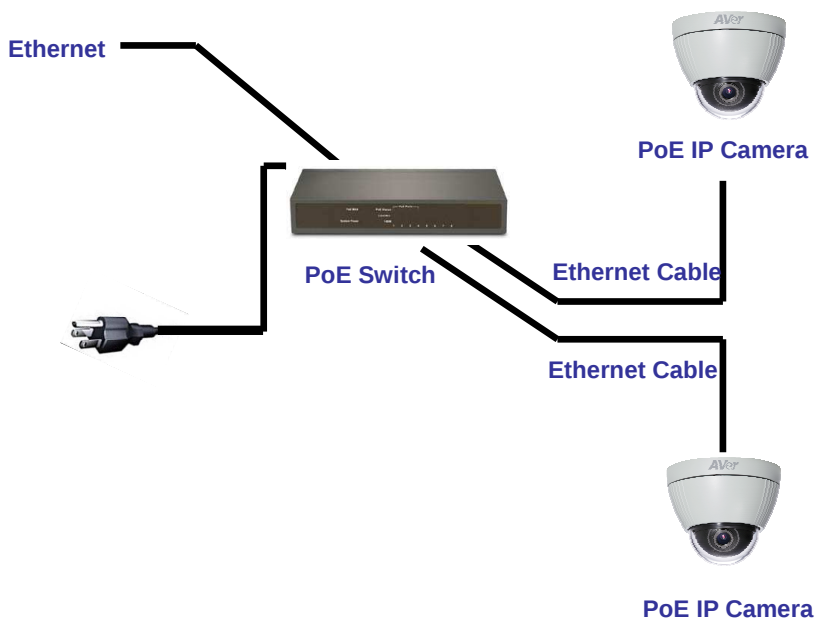
- Please connect the GND & DO pin to the external relay (buzzer) device.
- Please connect the GND & DI pin to the external trigger device.



Power Over Ethernet (PoE)

Set up the IP camera through Power over Ethernet (PoE). PoE is a technology that integrates power into a standard LAN infrastructure. It enables power to be provided to the network device, such as an IP camera, using the same cable as that used for network connection. It eliminates the need for power outlets at the camera locations.

[Note] 802.3at, 30W PoE Switch is recommended.



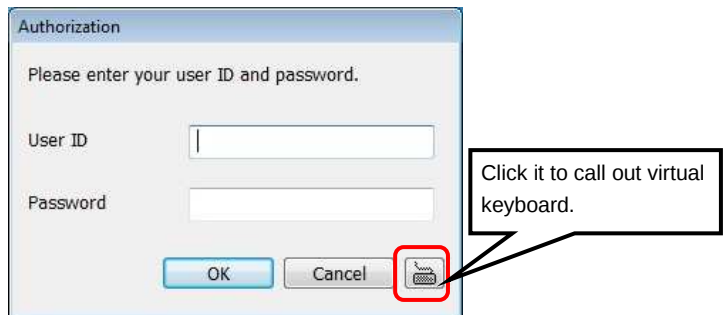
IP Assignment

There are two ways to find IP Camera:

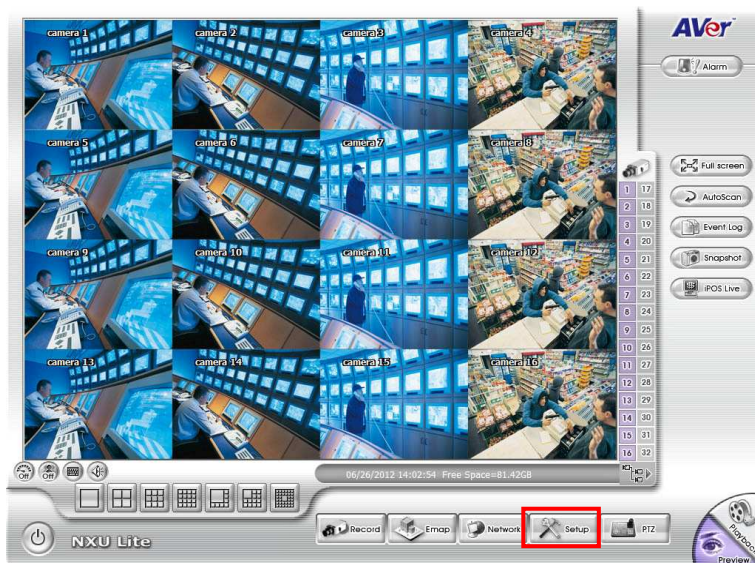
- Finding IP Camera by using “**NXU Lite recording software**”
- Finding IP Camera by using “**AVer IPCam Utility**”

Finding IP Camera by using “NXU Lite recording software”

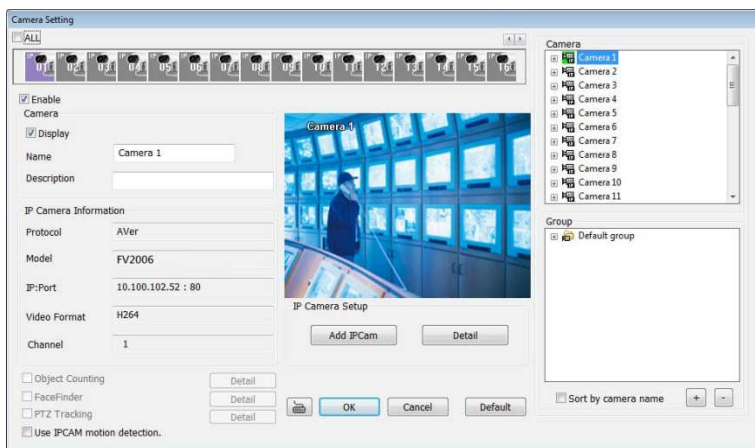
1. The NXU Lite software is in the attached software CD. Before launching it, please install the software first. During the installing process, users will be required to input a User name and Password for login NXU Lite system. Users can define the User name and Password as wishes. Please refer to NXU 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.

IP Camera Information
F/W: V1.0.28

Auto Search

☒ Protocol AVer

Model FV2006

Video Format Auto

Channel 1

IP Camera Site 10.100.102.52 : 80

☐ URL
http://

☒ Authentication

ID admin

Password

☐ Enable Audio

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.

Search Result

Item	Protocol	Model	IP Address	Port
1	AVer	FV2006	192.168.100.2	80
2	ONVIF	SF2111H-BR	http://192.168.100.2:80/onvif/device_ser...	80

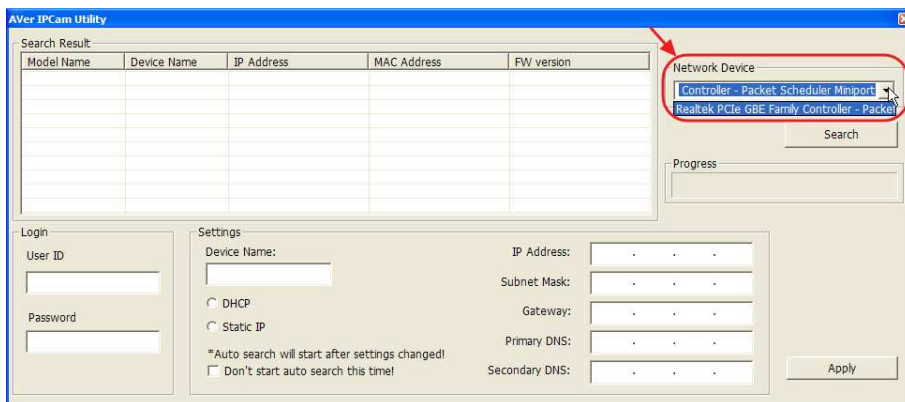
Double-click the IP camera model that user has purchased (ex: FV2006).

Please ignore ONVIF protocol selection; NXU Lite doesn't support ONVIF connection.

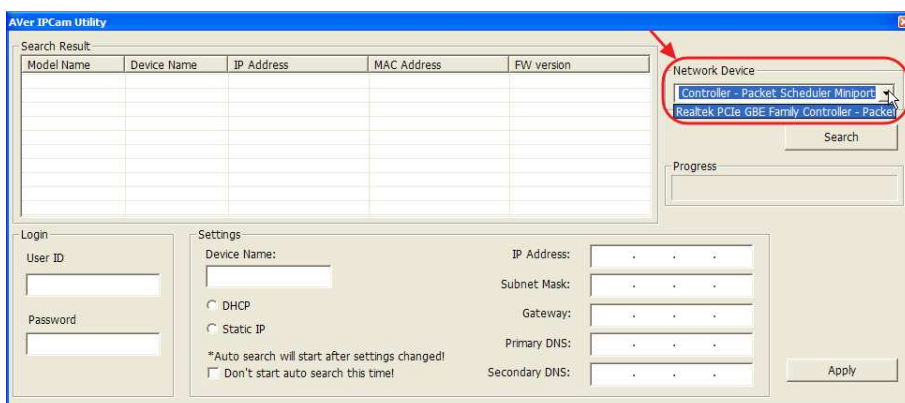
Searching OK Cancel

Finding IP Camera by using “AVer IPCam Utility”

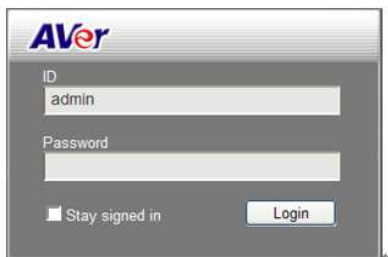
1. Use the software, “**AVer IPCam Utility**” to assign the IP address of the IP camera. The software is in the attached software CD.
2. Run the IPCam Utility
3. Select the proper network adapter and click [Search] to begin searching.



4. Select and double click the IP camera you want to access. If you want to change the setting of the selected IP camera, enter the user ID, correct password, and change the settings and then click **Apply** button. This will change the setting and rescan the network again.



5. The IE browser will open and direct you to IP camera login page. This requires IPViewer.ocx to run. If the IE ActiveX warning message appears, click to allow running the add-on.



Default ID : admin
Password : admin

[Note]

- The default IP address is: 192.168.1.168
- The default ID and Password are both "**admin**".
- It is not allowed to enter device name in Chinese and any other special characters (' ' \ & ^).
- Gateway number can't be "0".
- IP camera device name should be less than 30 digits

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: 192.168.1.168

PC IP address: 192.168.1.100

Different Subnets:

IP camera IP address: 192.168.1.168

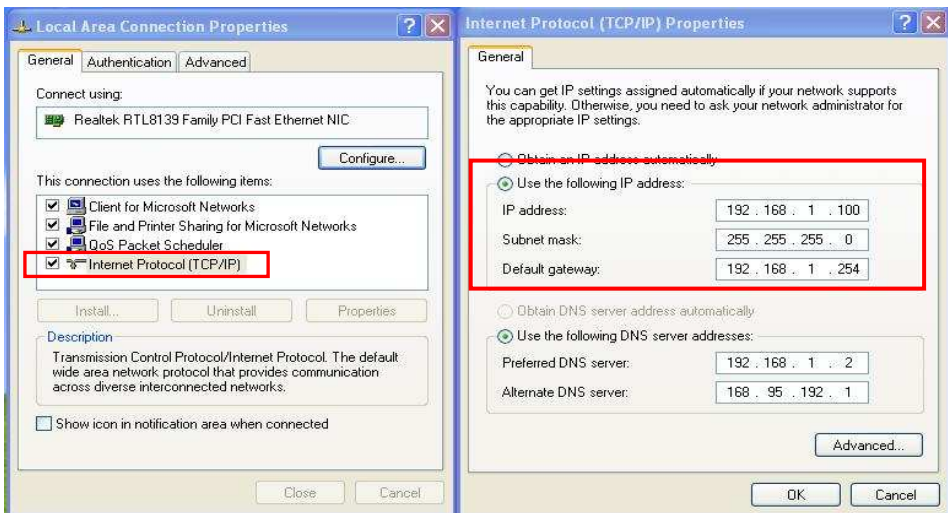
PC IP address: 192.168.2.100

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:

The screenshot shows the AVer IPCam Utility v1.1.0.11 window. It features a 'Search Result' table with columns for Model Name, Device Name, IPv4 Address, MAC Address, FW version, and IPv6 Address. The first row is highlighted with the values: FV2006, FV2006, 192.168.107.168:80, 00:18:1a:0c:35:cc, V1.0.32, and ffe80::218:1. To the right of the table is a 'Network Device' dropdown menu set to 'Realtek PCIe GBE Family Controller' and a 'Search' button. Below the table is a 'Progress' bar. On the left, there is a 'Login' section with 'User ID' and 'Password' input fields. To the right of the login fields is a 'Settings' section with a 'Device Name' field set to 'FV2006', radio buttons for 'DHCP' and 'Static IP' (with 'Static IP' selected), and a note: '*Auto search will start after settings changed!'. Below this note are two checkboxes: 'Don't start auto search this time!'. To the right of the settings are fields for 'IP Address' (192 . 168 . 107 . 168), 'Subnet Mask' (255 . 255 . 255 . 0), 'Gateway' (192 . 168 . 107 . 254), 'Primary DNS' (168 . 95 . 1 . 1), and 'Secondary DNS' (168 . 95 . 192 . 1). An 'Apply' button is located at the bottom right of the settings area.

Model Name	Device Name	IPv4 Address	MAC Address	FW version	IPv6 Address
FV2006	FV2006	192.168.107.168:80	00:18:1a:0c:35:cc	V1.0.32	ffe80::218:1

Network Device: Realtek PCIe GBE Family Controller

Search

Progress

Login

User ID

Password

Settings

Device Name: FV2006

☐ DHCP

☒ Static IP

*Auto search will start after settings changed!

☐ Don't start auto search this time!

IP Address: 192 . 168 . 107 . 168

Subnet Mask: 255 . 255 . 255 . 0

Gateway: 192 . 168 . 107 . 254

Primary DNS: 168 . 95 . 1 . 1

Secondary DNS: 168 . 95 . 192 . 1

Apply

A quick way to access remote monitoring is to double-click on a selected IP camera in “Camera Name list” in AVer IPCam Utility. Then, the IE browser will open and connect to IP camera.

Then, please key in the default “ID” and “Password”, both of which are “admin”.

The screenshot shows a login dialog box with the AVer logo at the top. It has two input fields labeled 'ID:' and 'Password:'. Below the password field is a 'Login' button. At the bottom, there is a copyright notice: 'Copyright © 2012 AVer Information Inc. All rights reserved.'

AVer

ID:

Password:

Login

Copyright © 2012 AVer Information Inc. All rights reserved.

Notes: Please enable “Compatibility View” while using IE 10 or above.

Install ActiveX Control

The first time you attempt to view the camera video via Internet Explorer, it will ask you to install the ActiveX component.

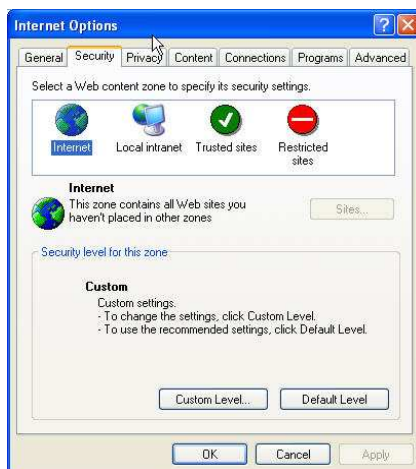
If the installation fails, please check the security settings for the Internet Explorer browser.

1. IE → Tools → Internet Options... → Security Tab → Custom Level... → Security Settings → Download unsigned ActiveX controls → Select **"Enable"** or Prompt.
2. IE → Tools → Internet Options... → Security Tab → Custom Level... → Initialize and script ActiveX controls not marked as safe → Select "Enable" or Prompt.

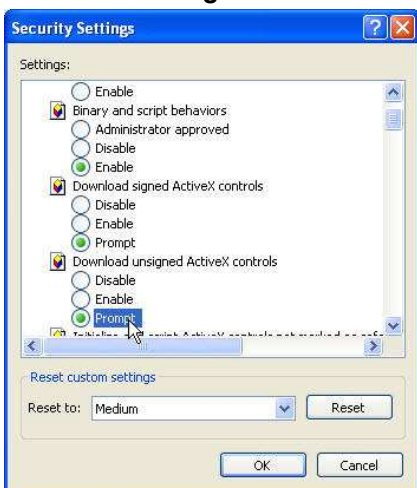
1



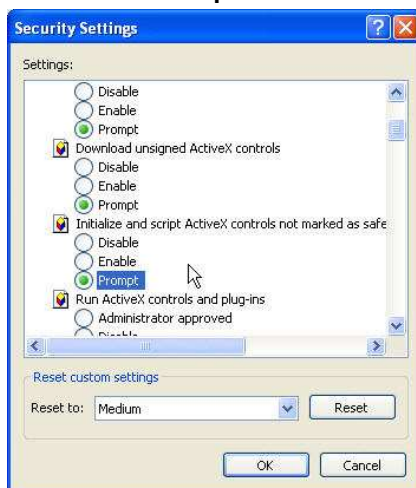
2



3

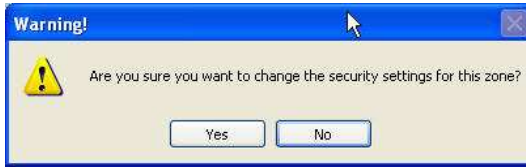


4



5

When the following dialogue box appears, click **“Yes”**.



Using the IP Camera Browser Interface

The admin have the full access to the IP camera browser interface. The menu on the left, you can expand and navigate to access all the features.

Preview

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.



Name	Function
(1) System/Event/Status Information	Set up IP camera's configuration.

Name	Function
(2) Login IP	Show PC's IP address
(3) Bandwidth	Show current IP camera's transmitting bandwidth
(4) FW Version	Show IP camera's current firmware version
(5) Logout	Exit the application
(6) Zoom control	 Reset zoom level.  Increase zoom level.  Decrease zoom level.  Use the scroll bar to zoom in or zoom out the video screen
(7) Capture	 Capture and save the image on the screen in *.bmp format
(8) Record	 Start/stop audio and video recording. The recorded video will be saved in *.avi format.
(9) 2-way Talk	 Click the Microphone button to talk to IP camera side from user site. Click this button again to mute this function.
(10) Speaker	 Turn on the PC's speaker so that PC side can hear sound from IP camera side. Click this button again to mute this function.  Use the scroll bar to adjust the speaker volume.  It shows the current speaker volume's value.
(11) Language	Select the browser interface language.
(12) Video screen	Change the video screen display.  Display the actual video pixel size  Display the video screen in compact size.  Display the video in full screen mode. Press ESC to exit full screen mode.
(13) Stream	Switch to view the video stream type. The IP camera can send multiple video streams of up to 3 types. To change the video stream setting, go to System > Video Stream. [Notes] When streaming 2 setting in " Video Setting " is closed, there won't have other stream option

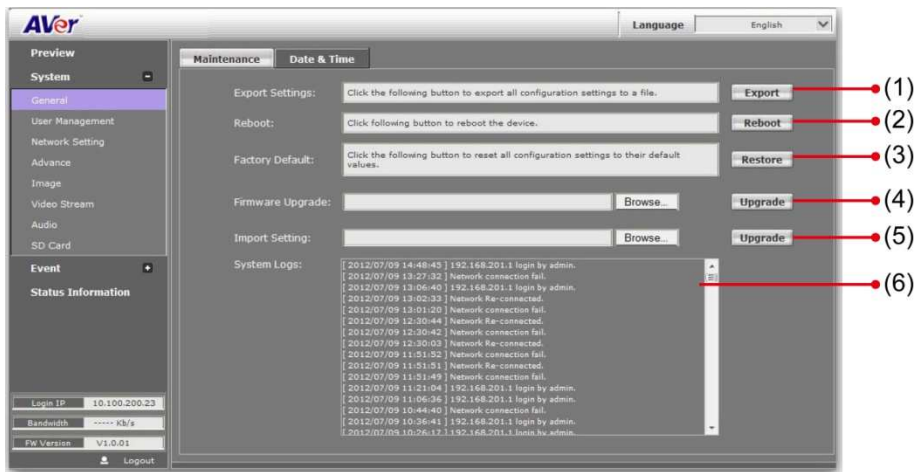
Name	Function
(14) Direction Controller	Move the position of the view point while in zoom mode. User has to zoom in first.

System > General

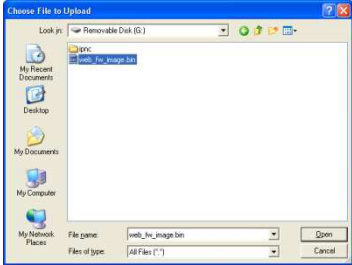
In this section, only admin level is authorized to configure the IP camera system maintenance and the date and time settings.

System > General > Maintenance

In the Maintenance tab, the administrator can check the system event log, upgrade the system firmware, reset the configuration settings without having to change the user management and network settings, reboot, and restore all back to factory default settings.

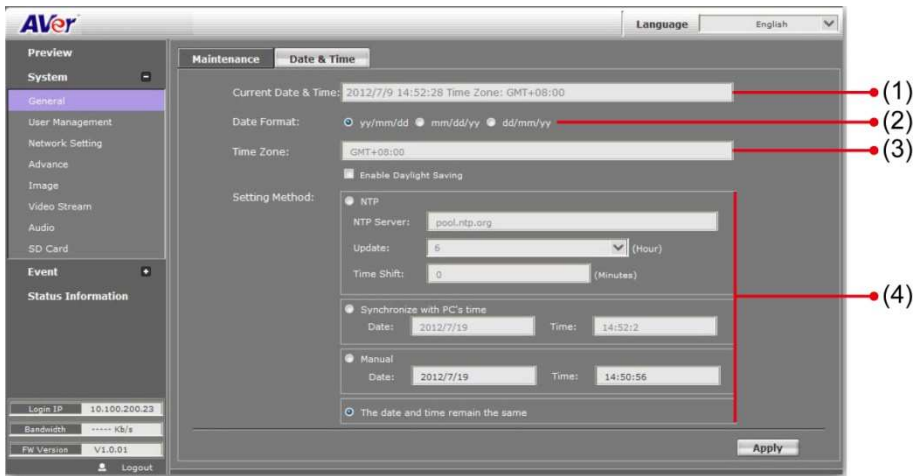


Name	Function
(1) Export Settings	Upload to save all the configuration settings from the IP camera to computer hard disk.
(2) Reboot	Turn the IP camera off and on again.
(3) Factory default	Set all the configuration settings back to default except the user management and network settings.

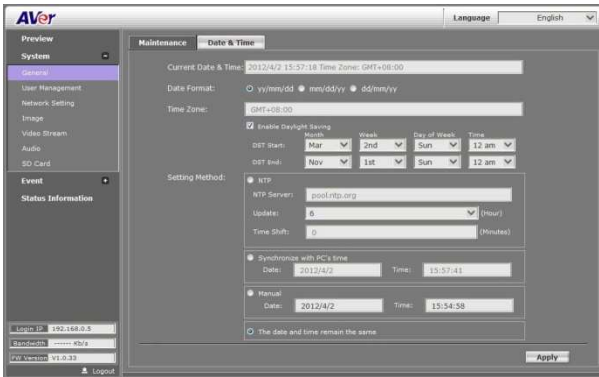
Name	Function
(4) Firmware Upgrade	Upgrade the firmware to the latest version.
<u>To Upgrade the IP Camera Firmware</u>	
1. Download the file from our website and save it in your computer hard disk. 2. Click Browse. Locate and select the file and click Open. 3. Click Apply. Wait till you see the message	
	
	New firmware download OK! It is strongly recommended to stop any unnecessary jobs while updating firmware. Please be patient and the updating process may take a long time. Writing Progress:100% Firmware upgrade complete.

System > General > Date & Time

In the “Date & Time” tab, **the administrator** can set and update the system’s date and time. After **filling in the correct settings**, click **Apply** to apply the new settings.



Name	Function
(1) Current Date & Time	Display the current date and time.
(2) Date Format	Select the date display format.
(3) Time Zone	Set the local time zone. Check the box next to “Enable Daylight Saving” to enable and setup the start date and end date for daylight saving time.



Name	Function
(4) Setting Method	Select the date & time settings method. <u>Sync with current PC</u> – Obtain the date and time setting on the current login computer. <u>Sync with NTP Server</u> – Obtain the date and time setting from NTP server. In the drop-down list, select the NTP host name. <u>Manual</u> – Manually set the date and time. Click “Done” to close the date and time interface.

System > User Management

In this section, only admin level is authorized to create, delete, and edit the account in Account tab and configure the client connection setting in Connection tab.

System > User Management

IP camera supports two different user accounts – Administrator (Admin) and Guest User.

User Type	Access Rights
Admin	Can access all the configuration pages
Guest User	Can only access the preview page.

■ Anonymous User Login

- ✓ **Yes:** Allow an anonymous user to view the IP camera without logging in.
- ✓ **No:** Need user name & password to access this IP camera

- **Add user:** Enter the user name in “**Username**”, the password in “**Password**”, and re-enter the password in “**Confirm**”. Then, click “**Add/Set**”.
- **User List:** Click **edit** to change the account password. To delete the user account, click **Remove** button.



The image shows a 'User Setup' dialog box with a dark gray background. It contains three text input fields stacked vertically. The first field is labeled 'Username:' and contains the text 'guest'. The second field is labeled 'Password:' and is empty. The third field is labeled 'Confirm:' and is empty. To the right of the input fields is an 'OK' button.

[Note]

1. The password can't be empty, otherwise, user are not able to login successfully.
2. Please don't use special symbols as user name such as *, %, \$, &.

System > Network Setting > Setting

- **Device Name:** Used to name the IP camera to search more easily for this specific one among all connected IP cameras.

The screenshot displays the AVer network configuration web interface. On the left, a sidebar contains navigation links: Preview, System, General, User Management, Network Setting (highlighted), Advance, Image, Video Stream, Audio, SD Card, Event, and Status Information. The main content area has tabs for Setting, Server, DDNS, Other 1, Other 2, and IPv6. The 'Setting' tab is active, showing 'Network Type' with radio buttons for DHCP, Static (selected), and PPPoE. Below this, fields for IP Address, Subnet Mask, Gateway, Primary DNS, and Secondary DNS are populated with specific values. A PPPoE section includes fields for Username, Password, and Confirm Password, along with a checkbox for 'Send mail after dialed' which is checked. The Subject field is set to 'PPPoE From IP Camera'. An 'Apply' button is located at the bottom right of the configuration area.

- **Network Type:** IP camera supports DHCP, static IP and PPPoE. After completed all settings, click **Apply** to save the configuration.
 - **DHCP:** Using DHCP, IP camera will get all the network parameters from DHCP server automatically.
 - **Static IP:** Please enter the IP address, subnet mask, gateway, Primary DNS, and Secondary DNS.
 - **PPPoE:** Enter the **Username**, **Password** and re-enter Password in **Confirm Password** for the ADSL connection. And then click **Apply** to save the configuration.

System > Network Setting > Sever

Used to send out the video via Email or FTP, or to save on NAS.

- **Mail Setting:** Used to send out the video via Email.
 - a. **Login Method:** Click drop-down list to select the method to login Email server – “**Account**” or “**Anonymous**”.
 - b. Enter necessary information in “**Bcc Mail**”, “**Sender Email Address**”, “**Recipient Email Address**”, “**Mail Server**”, “**Mail Server Port**”, “**Account Name**”, and “**Password**” columns.
 - c. Click “**Apply**” to save the configuration.
- **FTP Setting:** Used to send out the video to FTP server.
 - a. Enter necessary information in “**FTP Server**”, “**Account Name**”, “**Password**”, and “**Path**” columns.
 - b. **Port:** Select the FTP server port.
 - c. If the user wants to create a new folder on the FTP server to save the video file, select “**Yes**” under the “**Create the folder**”.
 - d. **Mode:** Select the FTP transmission mode.
 - e. Click “**Apply**” to save the configuration.

- **NAS Settings:** Used to send out the video to NAS server.
 - Enter necessary information in “**Location**”, “**Workgroup**”, “**Account Name**” and “**Password**” columns.
 - If the user wants to create a new folder on the NAS server to save the video file, select “**Yes**” under the “**Create the folder**”.
 - Click “**Apply**” to save the configuration.

NAS Settings

Location: \\192.168.107.171\AverNAS

Workgroup: AverGroup Create the folder: Yes

Account Name: AverMember Password:

Apply

System > Network Setting > DDNS

The IP camera supports DDNS (Dynamic DNS) service.

Aver

Language English

Preview

System

General

User Management

Network Setting

Advance

Image

Video Stream

Audio

SD Card

Event

Status Information

Setting Server DDNS Other 1 Other 2 IPv6

Service Provider: dyndns.org

Domain Name:

Account Name:

Password:

Schedule Update: 30 Minutes

☒ Enabled DDNS

Status: DDNS not launching!

Note:

1. Schedule Update: Depends on the input time of Schedule Update, it will update DDNS's web site automatically. The time range is from 5 to 5000 minutes.
*0: It will not update.
2. dyndns.org & 3322.org: Update once per day is recommended (1440 minutes per day). If updated too frequently, it will be blocked.

Apply

Login IP 192.168.1.10

Bandwidth ----- Kbps

- Select “**Enabled DDNS**” to enable DDNS function.
- Enter the **Domain Name**, **Account Name**, and **Password** that the user has registered on the DDNS service provider in the appropriate columns.
- Enter the IP refreshing time period in the “**Schedule Update**” column.
- Click “**Apply**” to save the configuration.

[Note] If you set up schedule update to occur too frequently, the IP may be blocked. In general, performing schedule update once a day (1440 minutes) is recommended.

■ Status

- Common warning message:

Updating!

Failed(1), Please check your DNS setting.

Failed(2), Please check your internet connection.

Failed(3), Please check your internet connection.

Failed(6), receiving data failure

- Warning message from different service provider:

✧ Server Provider : dyndns.org

Failed(4), Please check the Dyndns.org.

Error : The system parameter given is not valid.

Error : No user agent was specified.

Error : The username and password pair do not match a real user.

Error : An option available only to credited users was specified.

Error : Not in the form hostname.domain.org or domain.com.

Error : The hostname specified does not exist.

Error : Not under the username specified.

Error : Too many or no hosts specified in an update.

Error : The hostname specified is blocked for update abuse.

Error : DNS error encountered.

Error : DNS Server Error Conditions.

✧ Server Provider : ddns.camddns.com(TW)

Failed(5), The name has already been registered.

✧ Server provider : ddns.ipddn.com(HK)

Failed(5), The name has already been registered

✧ Server provider : www.3322.org.

Failed(4), Please check the www.3322.org.

System > Network Setting > Other 1

The screenshot shows the AVer web interface for network settings. The 'Other 1' tab is active, displaying various port and service configurations. The left sidebar shows the 'Network Setting' menu item is selected. The main configuration area includes fields for HTTP and HTTPS ports, UPnP settings, external ports, RTSP and RTP settings, and ONVIF/Security options. An 'Apply' button is located at the bottom right of the configuration area.

User may need to assign different port to avoid conflict when setting up IP assignment. Click **Apply** to save the configuration.

- **HTTP Port:** setup web page connecting port and video transmitting port (Default: 80)
- **HTTPS Port:** AVer IP Camera supports encrypted browsing using HTTPS. This is configured on the System > Advance > HTTPS
- **UPnP Support:** This IP camera supports UPnP, if this service is enabled on your computer, the camera will automatically be detected and a new icon will be added to “My Network Places.”

[Note] UPnP must be enabled on your PC.

Please follow the procedure to activate UPnP.

1. Open the **Control Panel** from the Start Menu.
 2. Select **Add/Remove Programs**.
 3. Select Add/Remove Windows Components and open Networking Services section.
 4. Click **Details** and select **UPnP** to setup the service.
 5. The IP device icon will be added to “**My Network Places**”.
 6. User may double click the IP device icon to access IE browser.
- **UPnP Port Forwarding:** If the IP camera is set up behind the firewall, please select YES to enable it.
 - **RTSP Server:** Enable/disable RTSP function. The Real Time Streaming Protocol (RTSP) is a network control protocol designed for use in entertainment and communications systems to control streaming media servers.
 - **RTSP Authentication:** While using iViewer software to get camera's image, please choose “Basic”

(base64) mode to enable security mechanism

- **RTSP Port:** setup port for RTSP transmitting (Default: 554)
- **RTP Start and End Port:** in RTSP mode, you may use TCP and UDP for connecting. TCP connection uses RTSP Port (554). UDP connection uses RTP Start and End Port.
- **Security: Yes** is required account and password to connect with this IP camera through ONVIF protocol. **No** is not required account and password to connect.
- **RTSP Keepalive:** To keep connection until remote site disconnects it.

System > Network Setting > Other 2

Multicast Setting (based on the RTSP Server): User can setup two streaming based on the RTSP Server.

The screenshot shows the AVer network configuration interface. The left sidebar contains a menu with options: Preview, System, General, User Management, Network Setting (highlighted), Advance, Image, Video Stream, Audio, SD Card, Event, and Status Information. The main area is titled 'Setting' and has tabs for Server, DDNS, Other 1, Other 2, and IPv6. The 'Other 2' tab is selected, showing 'Multicast Streaming1' and 'Multicast Streaming2' settings. For 'Multicast Streaming1', the IP Address is 234.5.6.78, Port is 6000, and TTL is 15. For 'Multicast Streaming2', the IP Address is 234.5.6.79, Port is 6001, and TTL is 15. Below these, there are sections for 'Bonjour' (Enabled/Disabled) and 'LLTD' (Enabled/Disabled). The 'Bonjour' section shows a 'Bonjour Name' field with 'IP_Camera' and a MAC address '@00:18:1A:0C:1D:EC'. An 'Apply' button is at the bottom right. The bottom status bar shows 'Login IP: 192.168.0.6', 'Bandwidth: ----- Kb/s', 'FW Version: V1.0.02', and a 'Logout' button.

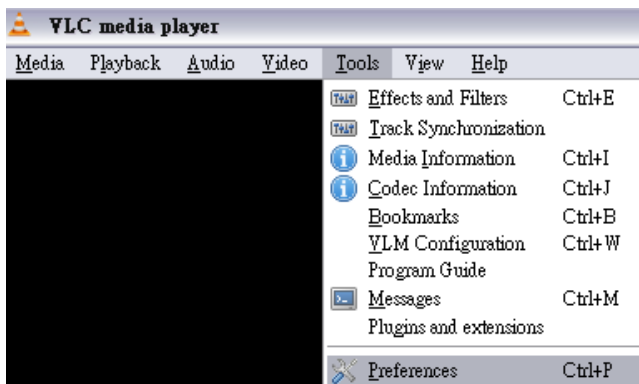
Multicast operation example:

The application is to get the multicast streaming in the LAN environment. Basically, the users operate VLC player, and then you can get the multicast streaming from IP camera.

Please follow the steps to obtain the multicast streaming in the following steps:

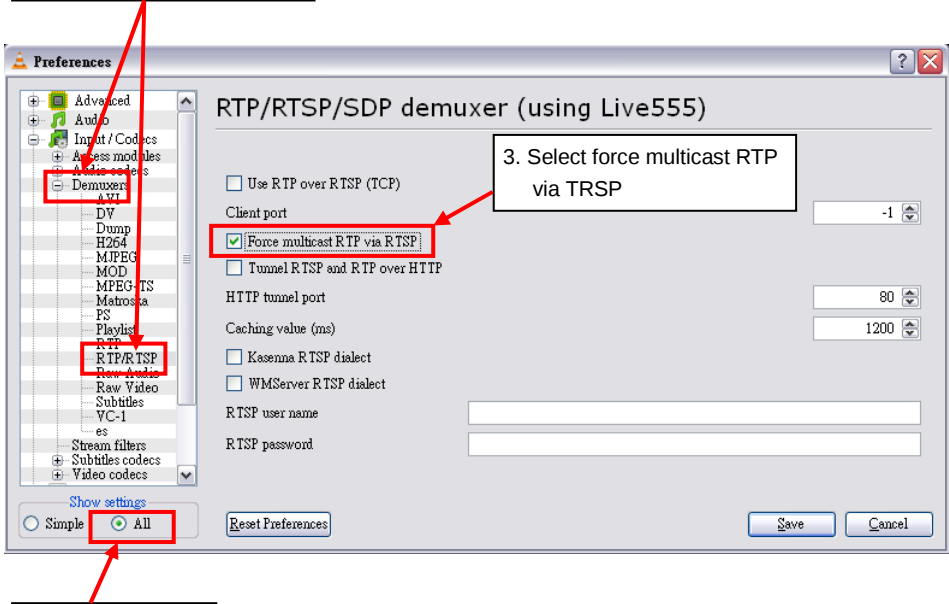
Step 1:

1. Implement VLC player (please download from the internet)
2. Select /tools/preferences



Step 2:

2. Select Demuxers and RTP/RTSP

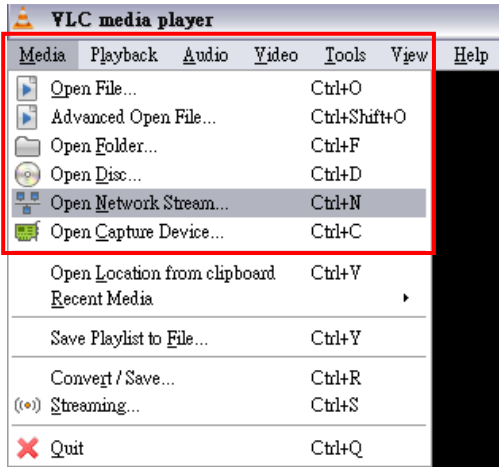


3. Select force multicast RTP via TRSP

1. Select all

Step 3:

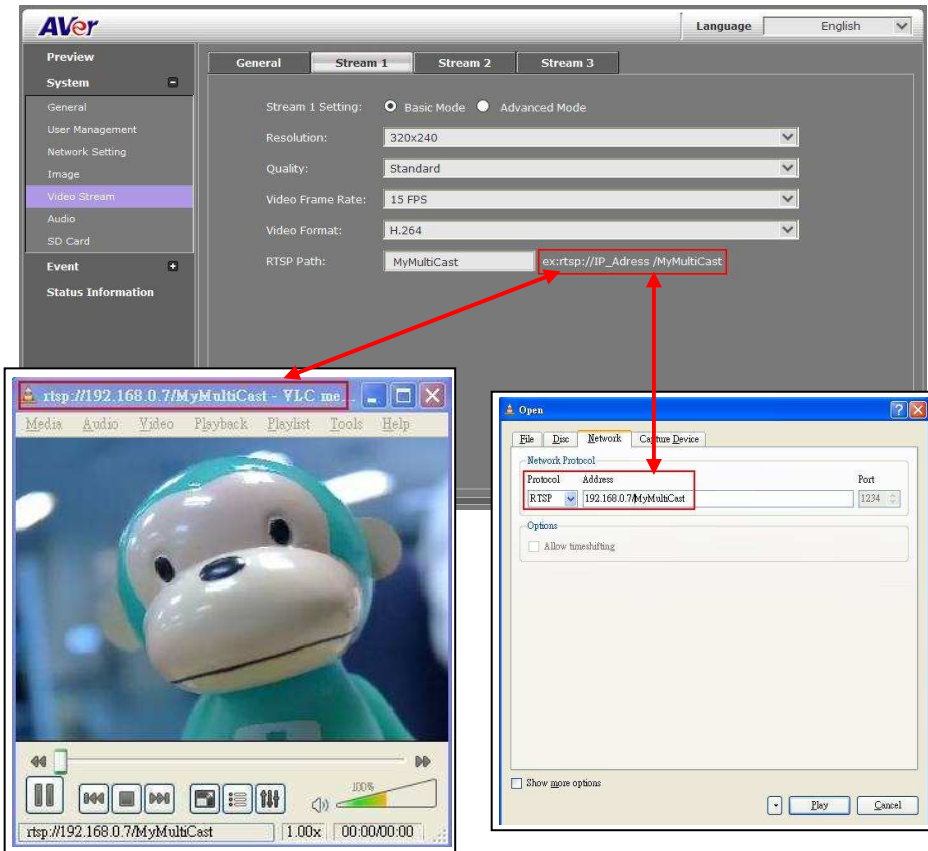
Select Media/open network stream



Step 4:

Input **rtsp://[IPCAM Address] / [RTSP Path]**

The URL address should be the same as the RTSP path in Video Stream (System-->Video Stream)



[Notice]

- a. If the received image is not from the required IP camera, please adjust the value. (Change either IP Address or Port number)

The screenshot shows the AVer network settings interface. The left sidebar contains a menu with 'Network Setting' highlighted. The main panel has tabs for 'Setting', 'Server', 'DDNS', 'Other 1', 'Other 2', and 'IPv6'. Under the 'Setting' tab, there are sections for 'Multicast Streaming1', 'Multicast Streaming2', 'Bonjour', and 'LLTD'. In the 'Multicast Streaming1' section, the 'IP Address' field is highlighted with a red box and contains the value '234.5.6.78'. The 'Port' field contains '6000' and the 'TTL' field contains '15'. The 'Multicast Streaming2' section has 'IP Address' as '234.5.6.79', 'Port' as '6001', and 'TTL' as '15'. The 'Bonjour' section has 'Enabled' selected. The 'LLTD' section has 'Enabled' selected. At the bottom right of the main panel is an 'Apply' button. The left sidebar also shows 'Login IP' as '192.168.0.6', 'Bandwidth' as '----- Kb/s', and 'FW Version' as 'V1.0.02'.

- b. If the Multicast stream you use doesn't support RTSP Keepalive, please select NO.

The screenshot shows the AVer network settings interface. The left sidebar contains a menu with 'Network Setting' highlighted. The main panel has tabs for 'Setting', 'Server', 'DDNS', 'Other 1', 'Other 2', and 'IPv6'. Under the 'Setting' tab, there are sections for 'HTTP Port', 'HTTPS Port', 'UPnP Support', 'UPnP Port Forwarding', 'External HTTP Port', 'External HTTPS Port', 'External RTSP Port', 'RTSP Server', 'RTSP Port', 'RTP Start Port', 'RTP End port', 'ONVIF', 'Security', and 'RTSP Keepalive'. In the 'RTSP Keepalive' section, the 'No' radio button is selected and highlighted with a red box. The 'RTSP Port' field contains '554'. The 'RTP Start Port' field contains '5000' and the 'RTP End port' field contains '9000'. At the bottom right of the main panel is an 'Apply' button. The left sidebar also shows 'Login IP' as '192.168.2.63', 'Bandwidth' as '----- Kb/s', and 'FW Version' as 'V1.0.31'.

- **Bonjour:** This function enables MAC systems to link to this IP Camera. Please key in the name here.(Safari supports Bonjour protocol)
- **LLTD:** If your PC supports LLTD, enable this function then you can check the connection status, properties, and device position (like IP address) of this IP Camera in the network map. In the computer running Windows Vista or Windows 7, you can find LLTD through the path **Start → Control Panel→ Network and internet→ Network and Sharing Center→ Click “ See full map”**.

The screenshot shows the AVer network configuration web interface. The left sidebar contains a menu with 'Network Setting' highlighted. The main content area has tabs for 'Setting', 'Server', 'DDNS', 'Other 1', 'Other 2', and 'IPv6'. Under the 'Setting' tab, there are sections for 'Multicast Streaming1' and 'Multicast Streaming2', each with fields for IP Address, Port, and TTL. Below these are radio buttons for 'Bonjour' (Enabled/Disabled) and 'LLTD' (Enabled/Disabled). The 'Bonjour Name' field is set to 'IP_Camera'. At the bottom right is an 'Apply' button. A status bar at the bottom left shows 'Login IP: 192.168.0.6', 'Bandwidth: ---- Kb/s', and 'FW Version: V1.0.62'.

System > Network Setting > IPv6

Beside IPv4, there is IPv6 for users to set up IP address.

This screenshot shows the 'IPv6' tab selected in the AVer network settings. The 'IPv6 Assignment' section has a checked 'IPv6 Enabled' checkbox and an unchecked 'Manually setup the IPv6 address:' checkbox. Below, there are radio buttons for 'DHCPv6' (Enabled/Disabled) and a text field for 'IPv6 Address' showing 'fe80::218:1aff:fe0c:35ce'. An 'Apply' button is at the bottom right. The status bar at the bottom left shows 'Login IP: 192.168.11.20', 'Bandwidth: ---- Kb/s', and 'FW Version: V1.0.30'.

System > Advance > HTTPS

Aver

LanguageEnglish

Preview

System

General

User Management

Network Setting

Advance

Image

Video Stream

Audio

SD Card

Event

Status Information

Login IP192.168.0.1

Bandwidth-----Kb/s

FW VersionV1.0.00

Logout

HTTPS

SNMP

Access list

QoS/DSCP

Created Request

Subject:C=TW , ST= , L= , O= , OU= , CN=

Date:2012/Jun/17 17:05:07

ContentRemove

Installed Certificate

Subject:C=TW , ST= , L= , O= , OU= , CN=

Date:Mar 14 08:45:42 2038 GMT

ContentRemove

Connection Types

Http&Https

HTTPS (Hypertext Transfer Protocol Secure): Https can help protect streaming data transmission over the internal on the higher security level. You can select the connection type. "Https" means user cannot connect the camera via Http protocol. The HTTPS path will be: "https :/(IP address)"/". If you select "Http & Https", both the Http and HTTPS path can be used to access the camera

Connection Types

Http

Http

Https

Http&Https

Remove the existing setting: Before setting new request, please remove old secure identification. Select "Http" connection type and click "Remove".

Created Request

Subject:C=TW , ST= , L= , O= , OU= , CN=

Date:2012/Jun/17 17:05:07

ContentRemove

Installed Certificate

Subject:C=TW , ST= , L= , O= , OU= , CN=

Date:Mar 14 08:45:42 2038 GMT

ContentRemove

Created Request: Setting the secure identification and apply it.

Create Request	Country:	
	State or province:	
	Locality:	
	Organization:	
	Organizational Unit:	
	Common Name:	
		Apply

There are two ways to set Certificate- Install Signed Certificate or Create Self-Signed Certificate.

Install Signed Certificate	Signed Certificate:		Browse
Apply			
Create Self-Signed Certificate	Country:		
	State or province:		
	Locality:		
	Organization:		
	Organizational Unit:		
	Common Name:		
	Validity:		Days
Apply			

SNMP (Simple Network Management Protocol) provides a simple framework for administering networked hardware. To manage the IP camera, you have to prepare a MIB browser or similar tools first. SNMPv1, SNMPv2c, and SNMPv3 can be enabled simultaneously.

- **SNMPv1 and SNMPv2:** The term "Community name" in SNMPv1 and SNMPv2c can be roughly regarded as key. The person who has the community name has the authority to read or edit the information of IP camera via SNMP. Check the box to enable SNMPv1 or SNMPv2c protocol, and specify the community name for write (read and write) and read (read-only). The user who uses read community name to access the IP camera cannot modify any data of this camera.

40

- **SNMPv3:** For data security reason, the authentication and encryption assurances are added when developing SNMPv3. The user has to give not only the security name (the same as "community name" in v1&v2c, or sometimes we call it "context name") but the password in order to access the IP camera. Please set security name, authentication type, authentication password, encryption type, encryption password of write and read respectively. The password must be 8–64 bits in length. Different from in SNMPv1 and v2c, the user have to create a account when using SNMPv3. In the account parameters, key in the security name and password you set in the camera to get accessing.

The image shows a configuration window titled "SNMPv3". It contains two sections for configuring write and read security. Each section has fields for "Security Name", "Authentication Type" (MD5 or SHA), "Authentication Password", "Encryption Type" (DES or AES), and "Encryption Password".

Section	Security Name	Authentication Type	Authentication Password	Encryption Type	Encryption Password
Write	write	MD5		DES	
Read	public	MD5		DES	

- **SNMPv1/v2cTrap:** Trap is a mechanism that allows the managed device to send messages to manager instead of waiting passively for polling from the manager. Specify the trap event. When those events happen, the camera will send the ring message to the Trap Address, which is usually the manager's IP address. Trap Community means the community that can receive the trap message.
 - **Cold Start:** The camera starts up or reboots.
 - **Setting changed:** The SNMP setting is changed.
 - **Network Disconnected:** The network connection was broken down. (The camera will send trap messages after the network being connected again)
- **V3 Authentication Failed:** A SNMPv3 user account tries to get authentication but failed. (Due to incorrect password or community)
- **SD Insert / Remove:** A microSD/SDHC card is inserted or removed.

The image shows a configuration window titled "SNMPv1/v2c Trap". It contains fields for "Trap Address", "Trap Community", and "Trap Event".

Field	Value
Trap Address	
Trap Community	public
Trap Event	☐ Cold Start ☐ Setting Changed ☐ Network Disconnected ☐ V3 Authentication Failed

System > Advance > Access list

You can deny an IP address or a range of IP address so that they cannot access the IP camera. Tick the "enable" box, key in the IP address you want to deny, select "deny" then click "Add" to add it to the list. You can also choose to deny a range of IP address but allow one or several IP address of them. Take the picture above for example, IP address 192.168.50.151~161 is not allowed to connect to the camera, but only 192.168.50.159 can access. Note: In the list "allow" condition must be ranked before "deny" condition. For example, if we exchange the sequence, set "Deny: 192.168.50.151 ~ 192.168.50.161" for the first item and "Allow: 192.168.50.159" for the second item in the list, the IP "192.168.50.159" turns out to be denied by the camera because the "deny" condition has the priority according to our ranking way.

AVER

Language English ▼

Preview System

- General
- User Management
- Network Setting
- Advance**
- Image
- Video Stream
- Audio
- SD Card

Event

Status Information

Login IP	192.168.201.1
Bandwidth	*****Kb/s
FW Version	V1.0.00

HTTPs SNMP Access list QoS/DSCP

☐ Enable ip address filter

IPv4 Setting ☐ allow ☒ deny

address: single ▼

IPv4 List

No.	IP Address	Filter	Action
1			remove
2			remove
3			remove
4			remove
5			remove
6			remove
7			remove
8			remove
9			remove
10			remove

☐ Allow admin IP address always access this device

Admin IP Address:

System > Advance > QoS/DSCP

QoS/DSCP (Quality of Server/Differentiated Services Code-point) specifies a simple mechanism for classifying and managing network traffic and provides QoS on IP networks. DSCP is a 6-bit in the IP header for packet classification purpose. The number 0~63 for Live Stream, Event / Alarm, and Management represent the ratio that the bandwidth is divided. For example, if you set 5, 10, and 20 for the three items, then the bandwidth of the three items is 5:10:20. There is no difference between setting "0, 0, 0" or "63, 63, 63" because under these two settings the three items will get equal bandwidth (1/3).

HTTPs	SNMP	Access list	QoS/DSCP
QoS/DSCP Setting			
☒ Enable QoS/DSCP			
Live Stream:		0	{0~63}
Event / Alarm:		0	{0~63}
Management:		0	{0~63}
Apply			

System > Image

Admin and operator levels can adjust the Image setting. There are 4 tabs: OSD, Preference, Advanced, and Privacy Mask

System > Image> OSD

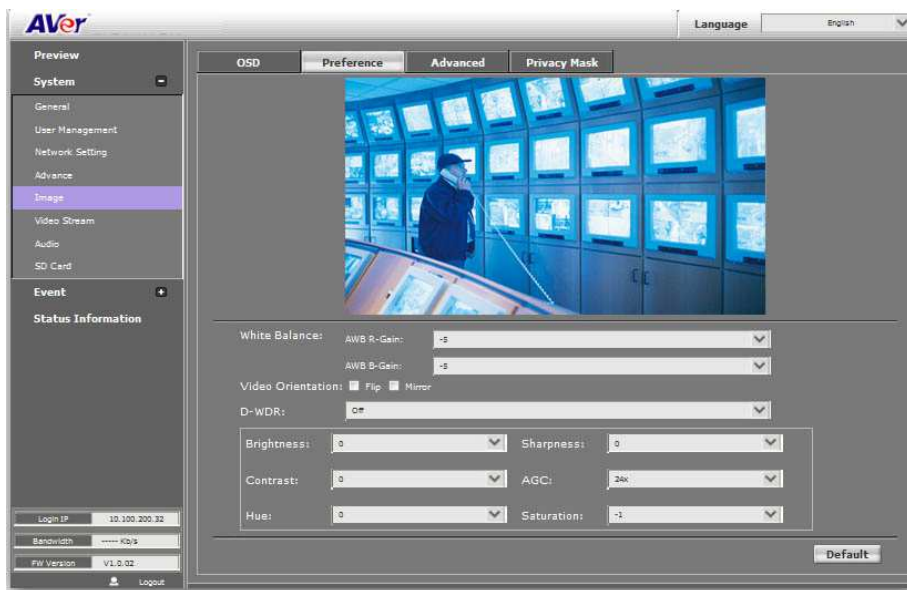
In OSD tab, you can enable/disable overlaying time stamp and text title. After completing the setting, click Save to apply the new setting and Cancel to keep the new setting.

- **Time Stamp:** Mark **Enable** check box and select a position where date and time stamp / text to display on video screen.
- **Customize Title:** Click **Enabled** can adjust the OSD contents which are including **Alpha** of text.



System > Image > Preference

In Preference tab, you can tune the IP camera white balance, change the video orientation, and adjust the brightness and contrast.



- **Video Orientation:** To **Flip** or **Mirror** the video on screen.
- **D-WDR:** This function is able to reduce the contrast in the view to avoid the dark zones resulting from over and under exposure.
- Adjust **"Brightness"**, **"Contrast"**, **"Hue"**, **"Saturation"** to get clear video.

System > Image> Advanced

Click **Default** button will back to factory default setting.



- **Shutter Time:** Adjust the shutter time level to get the best image quality.
- **Sense-UP:** The main purpose of sense-up is to provide a camera technology that does not rely on artificial light to see in very low light conditions. By The shutter stays open longer, allowing more light into the camera and seeing better in low light. This setting altogether when there is a moving object in the image and the faster the object moves, the worse the image appears (blurriness).
- **DNR (Denoise):** This function is able to filter the noise and blur from the image and show a clearer view.

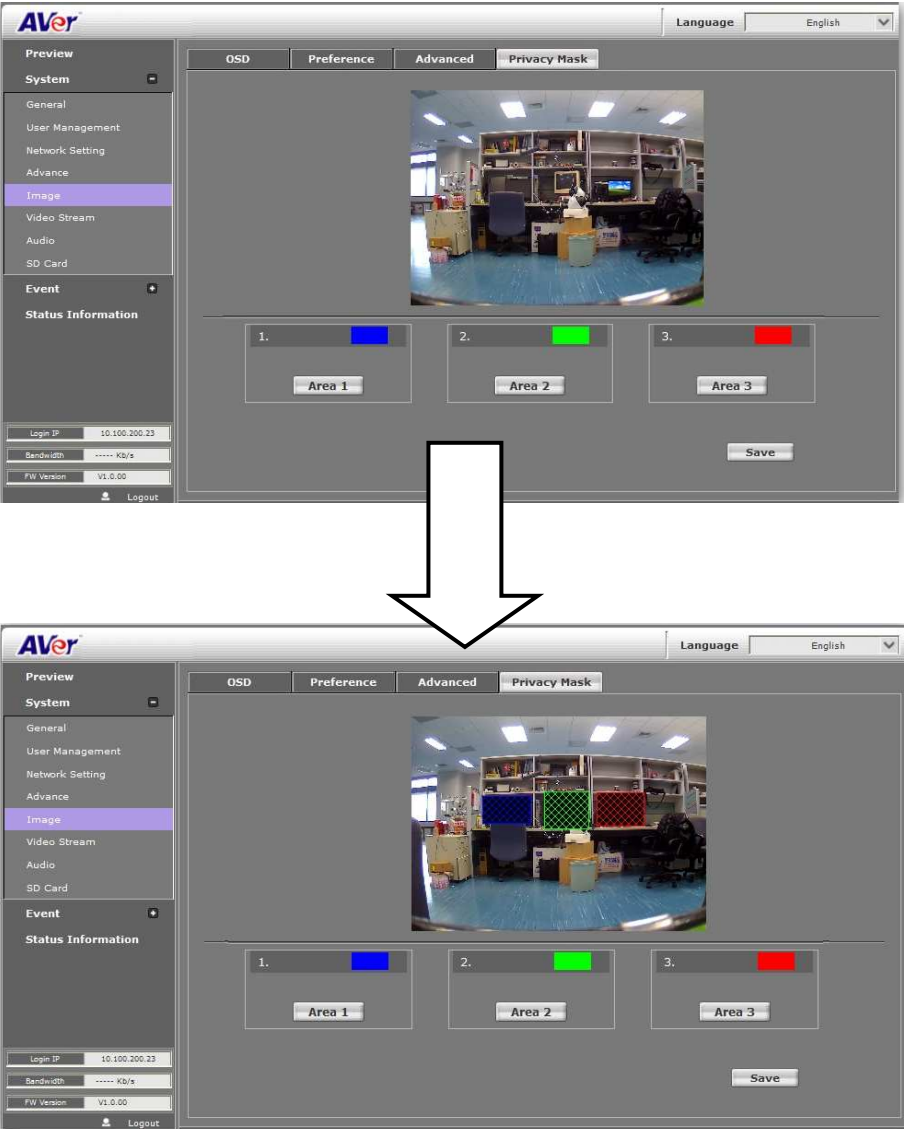
[Note] When you select a number in "Shutter Time", actually the shutter time varies in a range and controlled by camera automatically. Following table shows the shutter time option and corresponding range

Option	Shutter Time Range (sec.)
Outdoor	1/10000 ~ Selected number in "Sense-up"
1/5	1/10000 ~ 1/5
1/10	1/10000 ~ 1/10
1/15	1/10000 ~ 1/15
1/30	1/10000 ~ 1/30

Option	Shutter Time Range (sec.)
Indoor	NTSC: 1/125 ~ Selected number in "Sense-up" PAL: 1/100 ~ Selected number in "Sense-up"
1/30	1/10000 ~ 1/30
1/50	1/10000 ~ 1/50
1/60	1/10000 ~ 1/60
1/100	1/10000 ~ 1/100
1/125	1/10000 ~ 1/125
1/250	1/10000 ~ 1/250
1/500	1/10000 ~ 1/500
1/1000	1/10000 ~ 1/1000

System > Image> Privacy Mask

For the security purpose, there are three areas can be setup for privacy mask. Click Area # (Area 1, Area 2, Area 3) button first and drag a area on the image screen. Then, click **Save** button to save the setting.



System > Video Stream > General

Video System: Select the video format: PAL or NTSC

The screenshot shows the 'General' tab of the Video Stream configuration. At the top, there are four tabs: 'General', 'Stream 1', 'Stream 2', and 'Stream 3'. Below the tabs, the 'Video System' is set to 'NTSC' via a dropdown menu.

System > Video Stream > Stream1

■ Basic Mode

Click **Apply** to save the configuration.

- **Resolution:** There are 5 resolutions can be chosen – 1920x1080, 1280x720, 640x480, 320x240, 176x144.
- **Quality:** There are 5 levels to adjust – Best, High, Standard, Medium, and Low. The higher the quality is, the bigger the file size is. Also not good for internet transmitting.
- **Video Frame Rate:** The video refreshing rate per second.
- **Video Format:** H.264, MPEG4 or JPEG.
- **RTSP Path:** It's a URL address.

The screenshot shows the 'Stream 1' tab of the Video Stream configuration. At the top, there are four tabs: 'General', 'Stream 1', 'Stream 2', and 'Stream 3'. Below the tabs, the 'Stream 1 Setting' is set to 'Basic Mode' (radio button selected). The configuration parameters are as follows:

- Resolution: 1920x1080
- Quality: Best
- Video Frame Rate: 30 FPS
- Video Format: H.264
- RTSP Path: ex:rtsp://IP_Address/

■ Advanced Mode

Click **Apply** to save the configuration.

- **Resolution:** There are 5 resolutions can be chosen – 1920x1080, 1280x720, 640x480, 320x240, 176x144.

- **Rate Control:** There are CBR (Constant Bit Rate) and VBR (Variable Bit Rate) to use.
 - ✓ **CBR:** 32Kbps–8Mbps (the higher the CBR is, the better the video quality is).
 - ✓ **VBR:** 1(Low) ~10(High) – Compression rate, the higher the compression rate, the better the picture quality is; vise versa. The balance between VBR and network bandwidth will affect picture quality. Please carefully select the VBR rate to avoid picture breaking up or lagging.
- **Video Quantitative:**1(Low) ~10(High).When you select VBR setting, you can adjust the value.
- **Video Frame Rate:** The video refreshing rate per second.
- **GOP Size:** It means "**Group of Pictures**".
- **Video Format:** H.264, MPEG4 or JPEG
- **RTSP Path:** It's a URL address

The screenshot displays the 'Stream 1 Setting' window with the following configurations:

- Stream 1 Setting:** ☐ Basic Mode ☒ Advanced Mode
- Resolution:** 1920x1080
- Rate Control:** ☒ CBR ☐ VBR
- Video Quantitative:** 7
- Video Bitrate:** 5Mbps
- Video Frame Rate:** 30 FPS
- GOP Size:** 1 X FPS (Note: GOP = 30 is displayed to the right)
- Video Format:** H.264
- RTSP Path:** [Empty text box] ex:rtsp://IP_Address/

System > Video Stream > Stream2

■ Basic Mode

Click **Apply** to save the configuration.

- **Resolution:** There are 5 resolutions can be chosen – 1920x1080, 1280x720, 640x480, 320x240, 176x144.
- **Quality:** There are 5 levels to adjust – Best, High, Standard, Medium, and Low. The higher the quality is, the bigger the file size is. Also not good for internet transmitting
- **Video Frame Rate:** The video refreshing rate per second.
- **Video Format:** H.264, MPEG4 or JPEG
- **RTSP Path:** It's a URL address

The screenshot shows the AVer system configuration interface. The left sidebar contains a 'Preview' section with 'System' expanded, showing options like General, User Management, Network Setting, Advance, Image, Video Stream (highlighted), Audio, and SD Card. Below this is an 'Event' section with 'Status Information'. At the bottom of the sidebar, there are status fields for Login IP (192.168.11.20), Bandwidth (---- Kb/s), and FW Version (V1.0.30), along with a Logout button. The main area has tabs for General, Stream 1, Stream 2 (selected), and Stream 3. Under the 'Stream 2 Setting' header, there are three radio buttons: Basic Mode (selected), Advanced Mode, and Close. Below these are five configuration fields: Resolution (640x480), Quality (Standard), Video Frame Rate (30 FPS), Video Format (JPEG), and RTSP Path (v2). The RTSP Path field has an example text 'ex:rtsp://IP_Address/v2'. An 'Apply' button is located at the bottom right of the configuration area.

■ **Advanced Mode**

Click **Apply** to save the configuration.

- **Resolution:** There are 5 resolutions can be chosen – 1920x1080, 1280x720, 640x480, 320x240, 176x144.
- **Quality:** There are 5 levels to adjust – Best, High, Standard, Medium, and Low. The higher the quality is, the bigger the file size is. Also not good for internet transmitting
- **Video Frame Rate:** The video refreshing rate per second.
- **Video Format:** H.264, MPEG4 or JPEG.
- **RTSP Path:** It's a URL address

The screenshot shows the AVer camera web interface. On the left is a sidebar with a menu: Preview, System, General, User Management, Network Setting, Advance, Image, Video Stream (highlighted), Audio, SD Card, Event, and Status Information. The main area has tabs for General, Stream 1, Stream 2 (selected), and Stream 3. Under Stream 2, there are radio buttons for Stream 2 Setting: Basic Mode, Advanced Mode (selected), and Close. Below these are dropdown menus for Resolution (640x480), Quality (Standard), Video Frame Rate (20 FPS), and Video Format (JPEG). There is a text input for RTSP Path with 'v2' entered and an example 'ex:rtsp://IP_Address/v2'. At the bottom right is an 'Apply' button. At the bottom left, there are status fields: Login IP (192.168.2.67), Bandwidth (---- Kb/s), FW Version (V1.0.30), and a Logout button.

- **Close:** To close the stream 2. Click **Apply** to save the configuration.

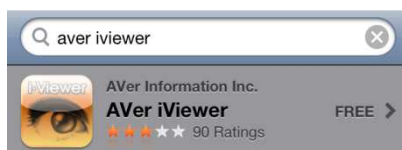
System > Video Stream > Stream3

3GPP Streaming is designed for mobile viewing.

- **Stream 3 Setting:** Enable or Disable 3GPP Streaming.
- **3GPP Path:** It's a URL address.

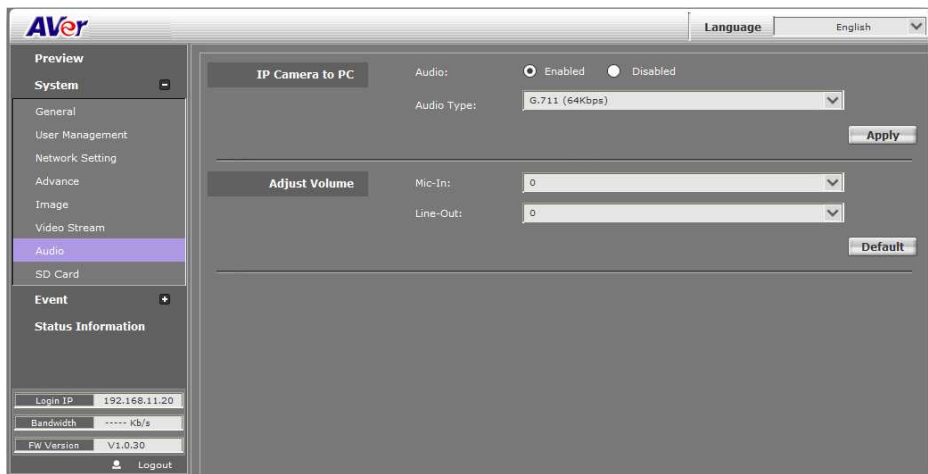


[Note] To get the best mobile viewing quality, please download AVeriViewer (AndroidViewer) from the Apple App store or Google Play. iViewer takes video from Stream 1 or Stream 2, not from 3GPP streaming.



System > Audio

IP camera supports 2-way audio (mono). User can send audio from IP camera while connected to a microphone to remote site; User can also send audio from remote site to IP camera's external speaker.



- a. IP camera to PC: select “**Enable**” to start this function.
- b. In live video screen, click  button to start chatting. Press again to mute. Click  button to turn on or off the speaker of PC.
- c. There are three audio codes: G.711 (64Kbps), G.726(24Kbps), G.726 (32Kbps)



System > SD Card

The screenshot displays the AVer system web interface. The top right corner shows the language set to English. The left sidebar contains a menu with 'System' selected, and sub-items like 'General', 'User Management', 'Network Setting', 'Advance', 'Image', 'Video Stream', 'Audio', 'SD Card' (highlighted), 'Event', and 'Status Information'. Below the menu, system status is shown: Login IP (10.100.200.23), Bandwidth (----- Kb/s), and F/W Version (V1.0.00), with a Logout button. The main content area is titled 'SD Card documents:' and shows 'No SD card'. Below this, 'SD Card Control:' includes an 'Auto Deletion:' dropdown set to 'Off' with a note '(Keep 1/ 2/ 3/ 4...days)'. The 'Format:' section contains a 'Format' button and a warning box: 'WARNING!!! All File will be deleted!'. An 'Apply' button is at the bottom right.

System	
Preview	
System	
General	
User Management	
Network Setting	
Advance	
Image	
Video Stream	
Audio	
SD Card	
Event	
Status Information	

System Information	
Login IP	10.100.200.23
Bandwidth	----- Kb/s
F/W Version	V1.0.00
Logout	

SD Card documents:
No SD card

SD Card Control:
Auto Deletion: Off (Keep 1/ 2/ 3/ 4...days)

Format: Click the following button to format SD Card. **Format**

WARNING!!! All File will be deleted!

Apply

Please insert microSD/SDHC card before use it. Make sure pushing microSD/SDHC card into the slot completely.

Event > Arrangement > Motion

Motion Detection: IP camera allows 3 areas motion detection. When motion is triggered, it can send the video to some specific mail addresses, transmit the video to remote ftp server, trigger the relay, and save video to local SD/SDHC card. To set up the motion area 1, click “**Area 1**” button. Using mouse to drag and draw the area. The same operation for area 2 and 3. (The higher the sensitivity value is, the more sensitive to trigger event.)



Event > Arrangement > Preference

Record File

File Format: AVI File(with Record Time Setting)

Pre Alarm: 5 sec

Post Alarm: 5 sec

Network Connected

Dis-connected: ☐ Save to SD card

Network IP Check

IP Check: ☒ Enabled ☐ Disabled

IP Address: www.google.com

Interval: 30 sec

Check failed: ☐ Save to SD card

■ Record File:

- **File Format:** IP camera allows 3 different types of recording file to change its record size. When motion/alarm is triggered, there are 3 different types of record mode.
 - AVI File (With Record File Setting)
 - JPEG Files (With Record File Setting), only with MJPEG compression format.
 - Single JPEG (Single File with Interval Setting) (JPEG photo).
- **Pre Alarm and Post Alarm:** Setups for video start and end time when motion detected, I/O, or other devices got triggered.

[Note] Pre/Post Alarm record time is base on record time setting and IP camera built-in Ram memory. Limited by IP camera built-in Ram Memory, when information is too much or video quality set too high, it will cause recording frame drop or decrease on post alarm recording time.

- **Network Connected:** When the network is down, it will save the video to local SD/SDHC card.

[Note] This function is only enabled in wire connection.

- **Network IP check:** When the connection is down, it records the **video** to SD/SDHC card. Make sure the video recording is continuous. To use this function, key in the IP address of the PC which has recording software installed. Enable the function of “**Save to SD card**”, then click “**Apply**”.

[Note] The interval of two video files on SD/SDHC card is fixed with 30 seconds.

Event > Schedule

- **Schedule:** After complete the schedule setup, the camera data will be recorded according to the schedule setup.
- **Snapshot:** After enable the snapshot function; user can select the storage position of snapshot file, the **Interval time** of snapshot and the reserved **File Name** of snapshot.

AVer

LanguageEnglish

Preview

System+

Eventon

Arrangement

Schedule

DI/DO

Status Information

All	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Mon.																								
Tue.																								
Wed.																								
Thu.																								
Fri.																								
Sat.																								
Sun.																								

Schedule Setup.

Snapshot:☒ Yes☐ No

Snapshot:☐ E-mail☐ FTP☐ Save to SD card☐ Samba

Interval:Second(s)

File Name:

Apply

Login IP192.168.0.5

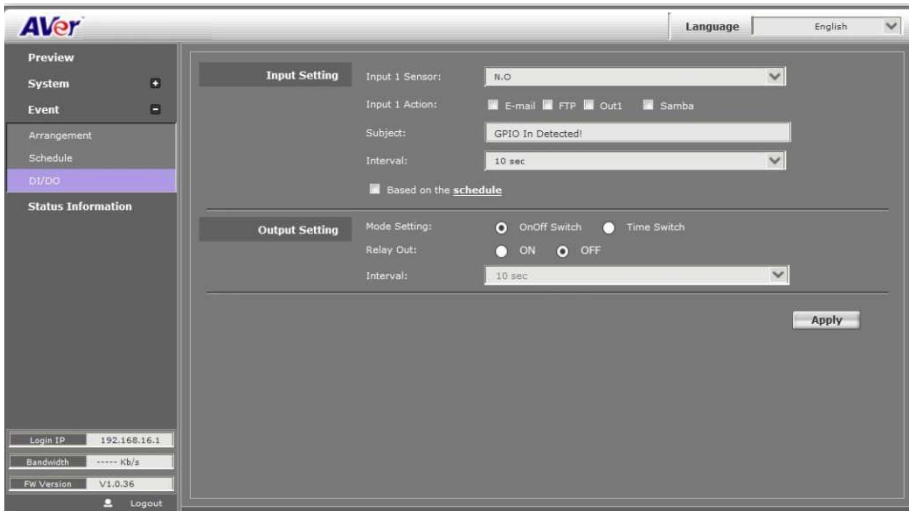
Bandwidth***** Kb/s

FW VersionV1.0.33

Logout

Event > DI/DO

IP camera supports 1 input/1 output (depending on different models). When input is triggered, it can send the video to some specific mail addresses, transmit the video to remote ftp server, trigger the relay, and save video to local SD/SDHC card.



CAUTION!!

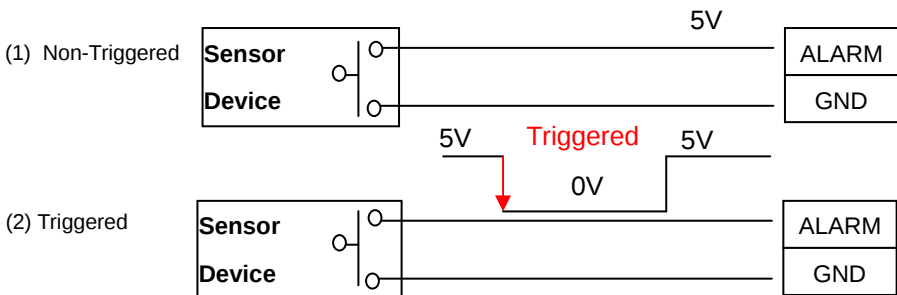
Please connect to propriety relay box to reduce the risk of electric shock & damaged.

Input Setting:

Input 1 sensor: This is to set the relay status while sensor is not yet triggered.

Input 1 action: Send the triggered video clips or photos to the selected method.

Subject: This is the subject while sending files via e-mail.



Output Setting:

Mode setting:

OnOff Switch: Relay status is based on sensor triggered times.

Time Switch: To restore the original relay status after the interval time.

[Note]GPIO pin define please refer to the part of Front / Back plane & I/O port pin assignment.

Ground (G)	ALARM INPUT: Normal: 5V (The voltage differential from ALM_IN pin & Ground) Active: 0V (Short the pin of ALM_IN and Ground pin)
DI	
DO	RELAY OUTPUT: MAX: 50 mA, DV 5V
Ground(G)	

Status Information

Click **Apply** button to save the configuration.

The screenshot displays a configuration interface for an IP camera, divided into two main sections: **Networking info** and **Product info**.

Networking info section includes the following fields:

- IP Address: 192.168.107.168
- MAC Address: 00:18:1A:0C:35:CC
- Interface: Ethernet
- RTSP 1 Path: RTSP://192.168.107.168/
- RTSP 2 Path: -----
- 3GPP Path: -----

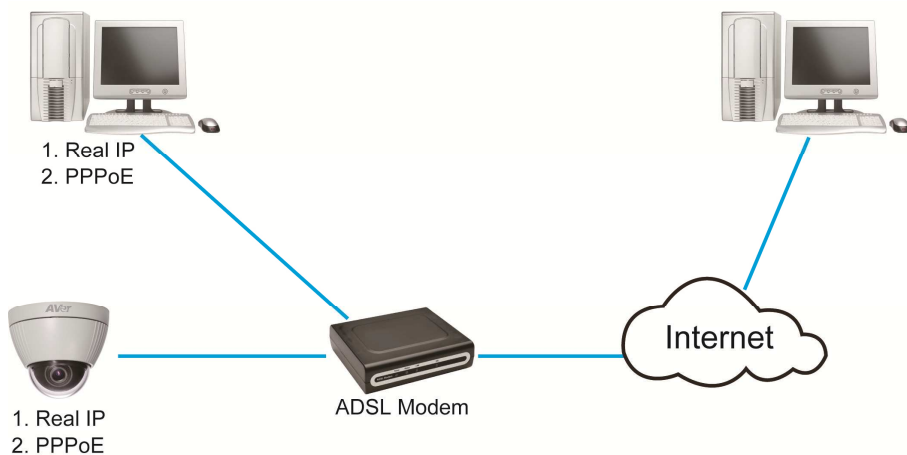
Product info section includes the following fields:

- Server Name: FV2006 (with a **Status Bar** checkbox)
- LED Indicator: ☒ ON ☐ OFF
- Company: AVer
- Model: FV2006
- FW Version: V1.0.32
- BuildTime: 2013/04/24 08:46:01 CST

- **Networking Info:** Displays network information of the IP camera.
- **Product Info**
 - **Server Name:** Assigns a name to the IP camera and the name shows on the IP Installer. Also, displays the related information of the IP camera. Mark **Status Bar** to display the Server Name of IP camera on preview interface.
 - **LED indicator:** To disable or enable the LED indicator on the IP camera.

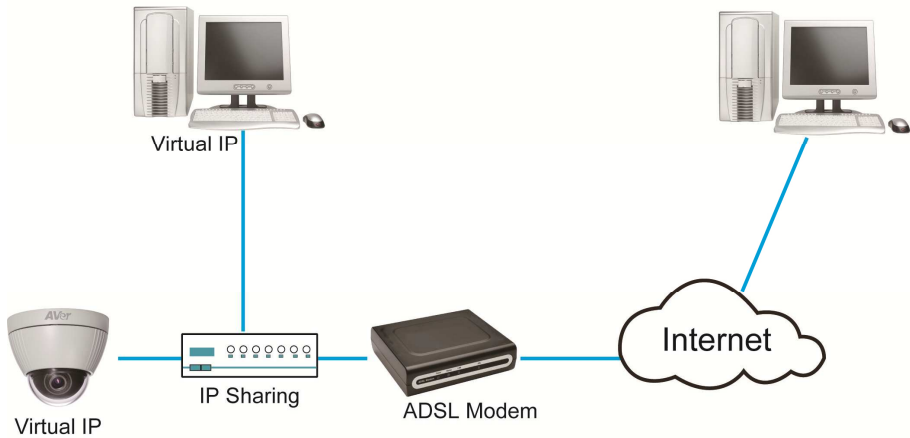
Network Configuration

■ Configuration 1



- Internet Access: ADSL or Cable Modem
- IP address: More than one real IP
- IP camera and PC connect to the internet
- For fixed real IP, set up the IP into IP camera and PC. For dynamic IP, start PPPoE.

■ Configuration 2



- a. Internet Access : ADSL or Cable Modem
- b. IP address : one real IP
- c. IP camera and PC connect to the internet
- d. Device needed : IP sharing
- e. Use virtual IP, set up port forwarding in IP sharing.(Please refer to Network Setting → Other 1 → UPnP Port Forwarding)

Factory Default

1. To recover the default IP address and password, please follow the following steps.
2. Remove power and Ethernet cable and the dome cover.



3. Press and hold the button and connect power and Ethernet cable to the camera again and hold for round 20 seconds for system booting.
4. Release the button when camera finishes proceed.
5. Re-login the camera using the default IP (<http://192.168.1.168>) or DHCP, and user name (**admin**), password (**admin**).

Troubleshooting

Here are some useful tips on how to solve some common problems.

Problem	Solution
I forgot the account and password for FV2006. How can I go back to default setting?	Please refer to the manual of "Factory Default setting" description.
I can't find a way to force day mode and night mode. Is this possible and how.	We don't provide this function due to the limitation of hardware.
I recorded video file in H.264 file format but failed to playback on Media Player (V.9).	Default Windows Media Player doesn't have H.264 decoder so that you can't playback the file successfully. Please install K-Lite program in advance or install KMPlayer or VLC program to playback the video file. You can search those free programs on Internet.
When I use Chinese words as the Gmail title while motion triggered, it turns to be nonsense characters displayed on my Gmail.	It's the spec limitation and please only use English or numbers as mail title to avoid this phenomenon.
I use VLC and connect three RTSP streams (stream 1, 2, 3) at the same time. However, it can't work properly.	Due to spec limitation, please connect one stream each time.

Appendix

FV2006 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
Transcend SDHC class4 16GB
Transcend SD class4 16GB
Transcend SDHC class4 32GB
Transcend SD class4 32GB
Transcend SD class6 4GB
Transcend SDHC class6 4GB
Transcend SD class6 8GB
Transcend SDHC class6 8GB
Transcend SD class6 16GB
Transcend SDHC class6 16GB
Transcend SDHC class10 4GB
Transcend SDHC class10 8GB
Transcend SDHC class10 16GB
SanDisk SDHC class4 4GB
SanDisk SDHC class4 8GB
SanDisk SDHC class4 16GB
SanDisk SDHC class4 32GB

COPYRIGHT

© 2013 AVer Information Inc. All rights reserved.

All rights of this object belong to AVer Information Inc. Reproduced or transmitted in any form or by any means without the prior written permission of AVer Information Inc. is prohibited. All information or specifications are subject to change without prior notice. "AVer" is a trademark owned by AVer Information Inc. Other trademarks used herein for description purpose only belong to each of their companies.

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

EXCEPT AS EXPRESSLY PROVIDED OTHERWISE HEREIN AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, AVER DISCLAIMS ALL OTHER WARRANTIES WITH RESPECT TO THE PRODUCT, WHETHER EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, INCLUDING WITHOUT LIMITATION, SATISFACTORY QUALITY, COURSE OF DEALING, TRADE USAGE OR PRACTICE OR THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NONINFRINGEMENT OF THIRD PARTY RIGHTS.

Limitation of Liability

IN NO EVENT SHALL AVER BE LIABLE FOR INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, PUNITIVE, OR CONSEQUENTIAL DAMAGES OF ANY NATURE INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, DATA, REVENUE, PRODUCTION, OR USE, BUSINESS INTERRUPTION, OR PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES ARISING OUT OF OR IN CONNECTION WITH THIS LIMITED WARRANTY, OR THE USE OR PERFORMANCE OF ANY PRODUCT, WHETHER BASED ON CONTRACT OR TORT, INCLUDING NEGLIGENCE, OR ANY OTHER LEGAL THEORY, EVEN IF AVER HAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. AVER'S TOTAL, AGGREGATE LIABILITY FOR DAMAGES OF ANY NATURE, REGARDLESS OF FORM OF ACTION, SHALL IN NO EVENT EXCEED THE AMOUNT PAID BY YOU TO AVER FOR THE SPECIFIC PRODUCT UPON WHICH LIABILITY IS BASED.

Governing Law and Your Rights

This warranty gives you specific legal rights; You may also have other rights granted under state law. These rights vary from state to state.