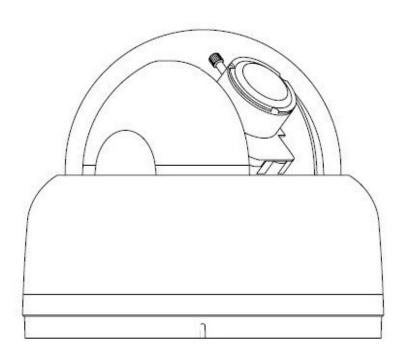
# JVC

# VN-T216/U FIXED HD IP DOME CAMERA

**INSTRUCTIONS** 



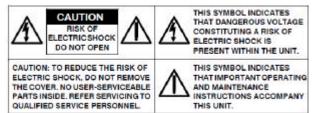
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- Design, specifications and other contents described in this manual are subject to change for improvements without prior notice.

# **Cautions and Warnings**



installation and servicing should be performed only by qualified and experienced technicians to conform to all local codes and to maintain your warranty.



DC12V / AC24V models require the use of CSA Certified/UL Listed Class 2 power adapters to ensure compliance with electrical safety standards. Power over Ethernet (PoE) should meet the IEEE802.3af PoE standards.

This product is intended to be supplied by a Listed Direct Plug-In Power Unit marked "Class 2" or Listed Adapter marked "L.P.S." (or "Limited Power Source") or PoE and rated output DC 12V, 0.55A minimum or AC 24V, 60Hz, 0.55A minimum or 48Vdc, 0.13A minimum. (for USA)



### WEEE (Waste Electrical and Electronic Equipment).

Correct disposal of this product (applicable in the European Union and other European countries with separate collection systems). This product should be disposed of, at the end of its useful life, as per applicable local laws, regulations, and procedures.

Caution

Connect only one camera to the power line, AC24V/DC12V. Do not share the power line with other equipment. The power cable between power source and the camera must be under 3 m.

Caution

When powering the camera from AC24V, a UPS source should be considered to ensure satisfactory performance.

# **FCC Compliance Statement**

**Information to the user:** This equipment has been tested and found to comply with the limits for a Class A 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 instruction manual, 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 turning the equipment off and on, the user is encouraged to try to correct the interference. For example, try reorienting or relocating the receiving antenna, increasing the separation between the equipment and receiver, or connecting the equipment to an outlet on a different circuit.

Caution

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This Class A digital apparatus complies with Canadian ICES-003.

# Manufacturer's Declaration of Conformance

# **Europe**

The manufacturer declares that the equipment supplied with this INSTRUCTIONS is compliant with the essential protection requirements of EMC directive 2004/108/EC and General Product Safety Directive GPSD 2001/95/EC, conforming to requirements of standards EN 55022 for emissions, EN 50130-4 for immunity.

# 1 About This Document

This INSTRUCTIONS is designed to be a reference tool for the installation and operation your system including the camera's features, functions and detailed explanation of the menu tree.

# **Overview of Contents**

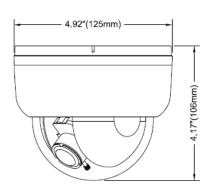
This document contains the following chapters:

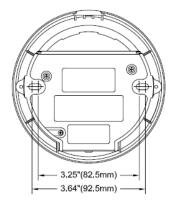
- Chapter 2, Product Overview, introduces the main functions and system requirements of the camera.
- Chapter 3, Installation and Connections, provides detailed instructions on installing the camera and connecting wires.
- Chapter 4, Overview of Navigation and Controls, introduces how to navigate in the main menu window and operate the controls.

# **2 Product Overview**

# Camera Parts and Definitions

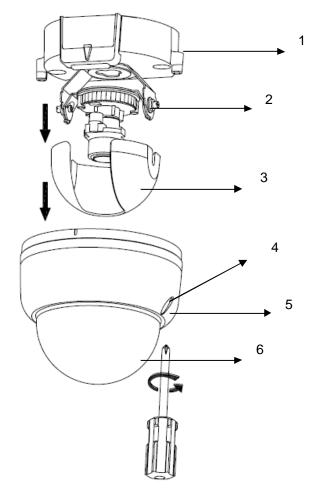
# **Camera Overview**





# **Camera Parts and Definitions**

The dome camera is fully integrated enclosure with camera and lens.



1	Camera bottom case	4	Loosen the screw to take off camera housing
	Tilt adjustment bracket and thumbnuts, notches(X2) Notches (x2)	5	Camera housing
3	Inner liner	6	Dome cover

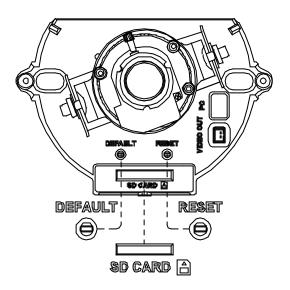
# **Routine Maintenance**

- The dome cover is an optical part. Use a soft, dry cloth to remove any fingerprints or dust.
- Clean the camera housing with a soft, dry cloth. For more stubborn stains, use a cloth dampened with a small quantity of neutral detergent, then wipe dry.

Caution

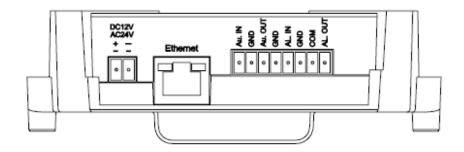
Do not use volatile solvents such as alcohol, benzene or thinners to avoid damaging the surface finish.

# **Connector Pin Definition**



DEFAULT I	RESET	DEFAULT	Return to factory default by pressing button for 5 seconds
	$\cup$	RESET	System re-start

VIDEO OUT is not available.



	Au. IN	Audio in
O Au. IN	GND	
GND	Au. OUT	Audio out
O Au. OUT	GND	
AL. IN	AL IN	Alarm in
○ GND	GND	
COM AL. OUT	СОМ	Alarm out
AL. 001	AL OUT	

DC12V AC24V ± =	DC12V	IP camera can operate on DC12V /
	AC24V	AC24V

Caution

For DC power supply use, make sure the popularity is correct to avoid malfunction and/ or camera change.

# 3 Installation and Connections

This chapter describes the installation and connection of the camera that can deliver video images and audio in real time using the Internet or an intranet.

# **Before You Begin**

Please read this INSTRUCTIONS carefully before you install and operate the camera.

# **Unpack Everything**

- FIXED HD IP DOME CAMERA
- WARRANTY CARD
- SAFETY PRECAUTIONS
- QUICK GUIDE
- 2-PINTERMINAL BLOCK for power input
- 8-PINTERMINAL BLOCK for alarm input/output
- CD-ROM containing INSTRUCTIONS and IPFinder software
- TEMPLATE : mounting template
- 2 SCREW ANCHORs
- 2 SCREWs

# **Equipment Required**

The following tools might help you to complete the installation:

- Drill
- Screwdrivers
- Wire cutters

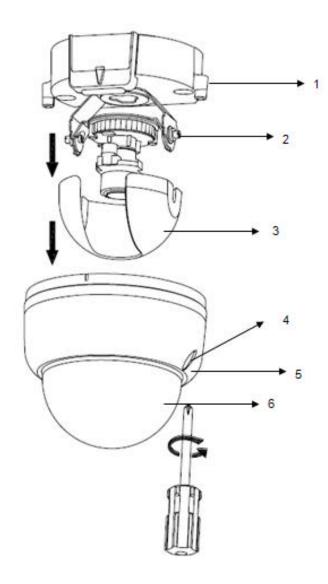
# **Camera Installation**

**Note** 

All the installation and operations here should conform to your local electricity safety rules.

# **Disassembling the Camera**

- Remove the inner liner (3) by pulling it free of the two notches (2) in the housing.
- Set the camera housing (5) and liner (3) aside.



# **Connecting the Power Wiring**

Connect the power supply cable to the power connectors.

# Caution

If using a DC supply, make sure the polarity is correct. Incorrect connection may cause malfunction and / or damage to the camera.

# Note

Connectors and field wiring terminals for external Class 2 circuits provided with marking indicating minimum Class of wiring to be used. Class 2 shall be marked adjacent to the field wiring terminals

Select one of the following options.

### For DC12V

Connect 12 V (-) to terminal =DC12V-Connect 12 V (+) to terminal =DC12V+

### For AC24V

Connect 24 V (~) cables to terminals ~AC24V.

### PoE

Connect the network cable to the RJ45 terminal using a switch.

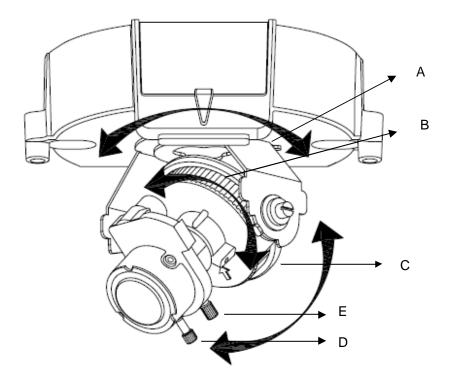
# **Adjusting the Camera Position**

The dome camera has three axes for positioning the camera. While monitoring the picture on the monitor, adjust the camera position as follows:

- Pan Adjustment (A) For Wall Mount and Tilted Ceilings Rotate the lens base (maximum 360°) until you are satisfied with the field of view.
- Horizontal Rotation (B) Rotate 3D assembly in the base. Do not turn
  assembly more than 360° as this assembly may cause the internal cables to
  twist and disconnect or break.
- **Tilt Adjustment (C)** After loosening the thumbnuts, position the camera as desired, then finger –tighten the thumbnuts to set the position.

### Caution

Do not turn the lens more than 360° as this may cause internal cables to disconnect or break.



# **Adjusting Zoom and Focus**

- Loosen the zoom lever (D) / locking screw by turning it counter-clockwise.
- Rotate the zoom ring to achieve the desired picture.
- Loosen the focus lever (E) / locking screw by turning it counter-clockwise.
- Rotate the focus ring to adjust the focus.
- If re-adjustment is necessary, repeat the steps above.
- Retighten the zoom lever( D) / locking screw and the focus lever (E) / locking screw.

**Caution** Retighten the locking screws to prevent loss of adjustment.

# **Mounting the Camera**

- Place the mounting template (supplied) on the mounting surface and mark the holes.
- Drill two holes, and then insert the screw anchors into the holes.
- Take off the camera housing.
- Connect the Safety Wire (fall prevention wire, not supplied) to the ceiling.

- Secure the camera bottom case (1) to the wall/ceiling with the TP4 x 15 mm tapping screws, supplied.
- Insert the power cable, LAN cable and Audio cables.
- Adjust the view angle (zoom, focus, and Horizontal Rotation).

To prevent the camera from falling off, ensure that it is connected to a firm place (ceiling slab or channel) using a Safety Wire (Fall Prevention Wire is not supplied).

### Warning

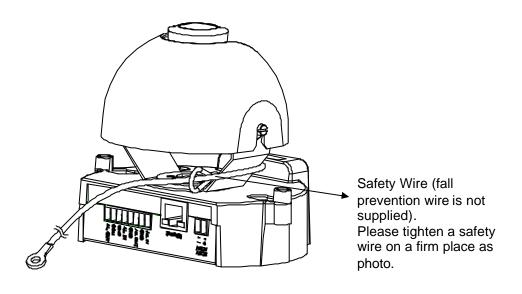
Pay also careful attention to the length, strength, wiring, and material (insulating properties) of the fall prevention wire to be used. The length should be as short as possible within the permissible range of the mounting length. The wire should be strong enough to withstand the total weight of this product. (Pay also attention to the finishing at the end of the wire.)

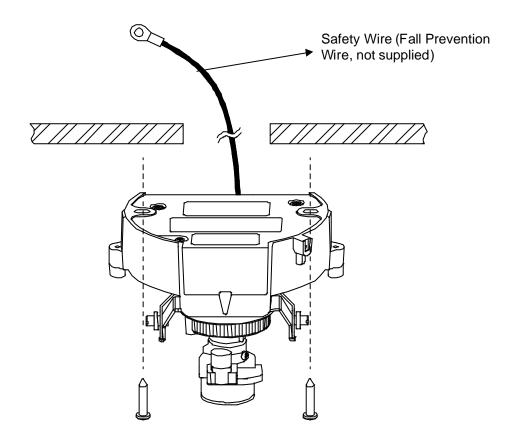
### Caution

Must be isolated camera and the wall/ceiling which are connected by the Safety Wire (Fall Prevention Wire).

### **Note**

Depending on the material of your mounting surface, you may require different screws and anchors than those supplied.





# **Locking the Camera**

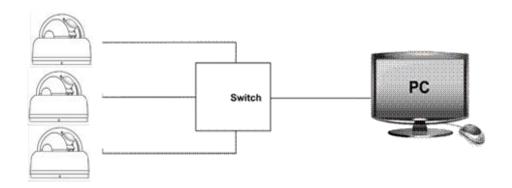
- Use soft, lint -free cloth to wipe the dome cover clean and remove fingerprints.
- Attach the inner liner and camera housing.
- Turn the power on after you have installed the camera.

# **Network Camera Diagram**

# **Connection type 1:**



# **Connection type 2:**



# **Hardware/Software Requirements**

# Computer

Windows XP or Windows 7 as OS

Internet Explorer Version 6.0-8.0

CPU: Intel Pentium IV X2 2.4 GHz or equivalent AMD

Memory: 1G or above

# Display adapter

Support DirectX9 for example NVIDIA GeForce 6 Series above ATI Mobility Radeon 9500 above.

### Power Supply

This camera requires a DC12V/ AC24V/ PoE power supply. Please make sure you use the correct power supply before connecting to the camera.

### **Network Connector**

Please use the RJ45 network connector for connecting the camera to your computer or switch.

### Switch

If you want to monitor several cameras, the switch is required.

Caution

To avoid damage to the camera, never connect more than one type of power supply (PoE IEEE802.3 Ethernet Class 0 or DC12V or AC24V power plug) at the same time. If using PoE, this camera is to be connected only to PoE networks without routing to external equipments.

# **Connecting the Camera to a Personal Computer**

# **Setting IP**

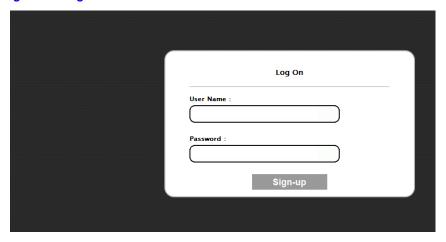
This is a network-based camera and must be assigned an IP address first. The camera's default IP address is 192.168.0.2 and sub mask is 255.255.255.0. To change IP address, open Network Settings page described later.

If your network uses a DHCP server, an IP address can be assigned automatically from the DHCP server by enabling DHCP in the Network Settings page described later

# **Connecting the Camera to a Personal Computer**

- 1. Connect the network cable to the camera and then turn on the camera's power.
- 2. Set the personal computer's IP address. The camera's default IP address is 192.168.0.2 and sub mask is 255.255.255.0.
- 3. Check that the camera and computer are connected by pinging the IP address you have set. To do this, start a command prompt (Windows: from the Start Menu, select Program. Then select Accessories and choose Command Prompt.) Type "Ping 192.168.0.2". If the message "Reply from..." appears, it means the connection is done.
- 4. Start Internet Explorer and enter IP address: **192.168.0.2**. A login window will appear. Enter the default user name: **admin** and password: **jvc** to log in.

Figure 3-1 Log on Screen

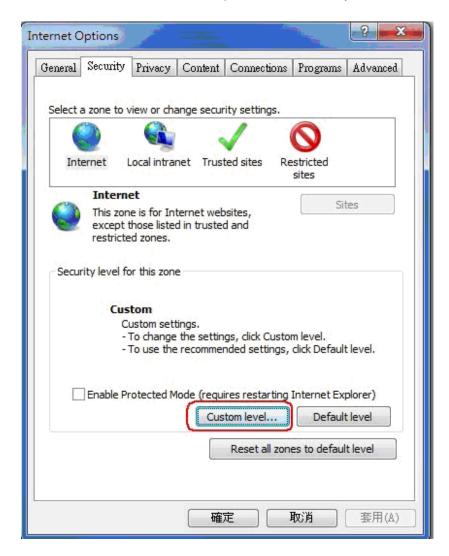


- 5. Images of the camera can be viewed through Internet Explorer. Before viewing, follow these steps to enable the display.
- a. Enable Cookies as shown below:
- --In Internet Explorer, click Internet Options on the Tools menu.
- --On the Privacy tab, move the settings slider to Low or Accept All Cookies.
- --Click OK.

- b. Set Browser setting when proxy server is used when a proxy server is used.
- c. Change **Security** in Internet options as shown below:
- --On tool menu, click Internet Option.
- -- Press the **Security** tab.
- --If the camera operates inside the Intranet, click the **Intranet** icon. If the camera operates on the Internet, click the **Internet** icon.
- --Click Custom Level. This will open the Security Settings Internet Zone screen
- --Scroll down to the **ActiveX controls and plug-ins** radio buttons and enable all of them as shown in the illustrations:
- In Windows 7 only, Click [Tools] → [Internet Options] → [Security]
  - Enable Protected Mode (require restarting Internet Explorer) → Unchecked



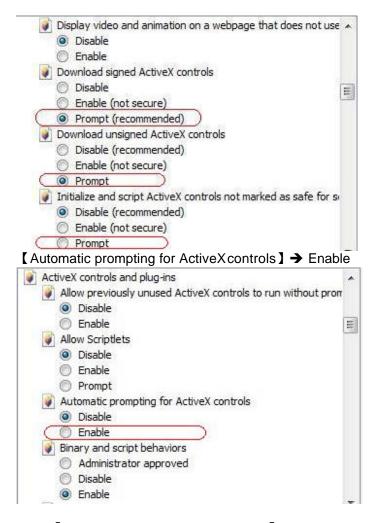




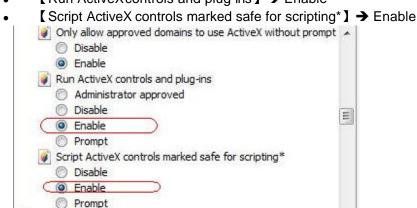
• Modify the configuration of IE's security setting as follow:

【 Download signed ActiveX controls 】 → Prompt (recommended)
 【 Download unsigned ActiveX controls 】 → Prompt

【Initialize and script ActiveX not marked as safe for scripting】→ Prompt



【Run ActiveXcontrols and plug-ins】→ Enable



6. Type your setting IP address into the browser.

7. Then you should be able to see the camera image screen.

# 4 Overview of Navigation and Controls

# **Live View**

Live view is designed for general users to control the camera. In the left list it displays:

- Full Screen: Set Full screen
- · One shot: take a picture from live view
- Audio In: get audio and output from PC. This menu is appeared by setting of Audio.
- Audio Out: send audio and output from camera. This menu is appeared by setting of Audio.
- Size 1:1
- Encoder No.1: Three streams are available for selection among H.264, MPEG-4 and MJPEG by setting of Encoder No.1.
- Encoder No.2: This menu is appeared by setting of Encoder No.2.

Figure 4-1 Live View



Note

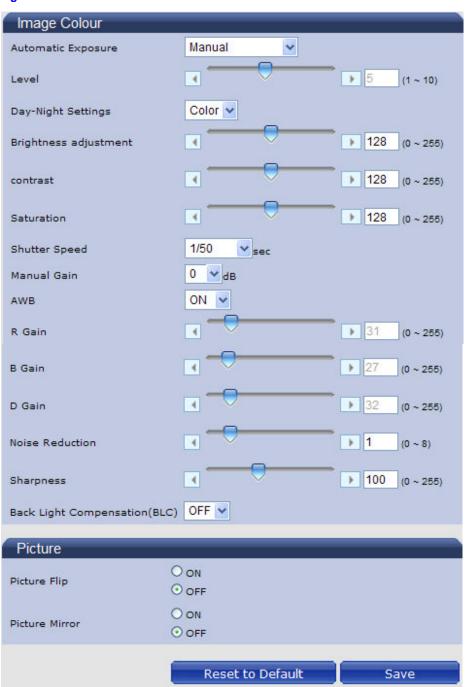
Keep the zoom level of IE as 100% to display normal live view.

# **Image Parameters**

You can setup Basic Setting, Image Compression, Alarm, FTP, E-mail, SD. Recording and Audio for your network IP camera by clicking on network setting on setting menu.

# **Basic**

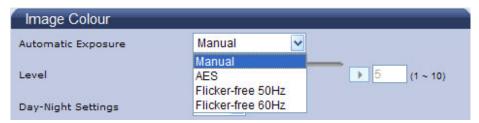
Figure 4-1 Basic



# **Image Color**

# **Automatic Exposure**

Figure 4-2 Automatic Exposure



Automatic Exposure controls the light intensity of picture. There are four types for adjustment. You can select Manual, AES (Automatic Electronic Shutter), Flicker-free 50Hz and Flicker-free 60Hz for the camera depending on your application conditions. When choose the Manual, the Shutter Speed can be adjusted.

Note: This camera controls shutter speed for automatic exposure.

### Level

Set Automatic Exposure target from 1 to 10. This function is working on AES mode.

### **Day-Night Settings**

Set DAY/NIGHT function. Move the cursor to select the Auto, Color, or BW mode. If selected Color mode, you can force the camera to stay in DAY (COLOR) mode at all day. If selected BW mode, you can force the camera to stay in BW (NIGHT) mode at all day.

Figure 4-3 Day-Night Settings



### **Brightness adjustment**

Set picture brightness. You can adjust brightness level from 0 to 255.

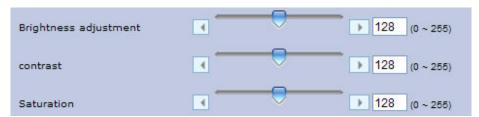
### Contrast

Set picture contrast. You can adjust contrast level from 0 to 255.

### Saturation

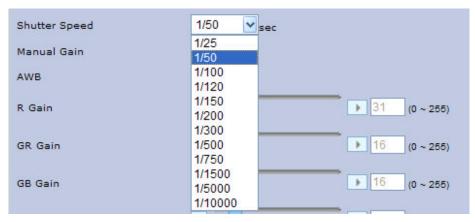
Saturation describes the difference of a color from the gray of the same lightness. Increasing saturation deepens the colors of your images, making reds redder and blues bluer. You can adjust picture saturation level from 0 to 255.

Figure 4-4 Brightness adjustment, Contrast, Saturation



# **Shutter Speed**

Figure 4-5 Shutter Speed

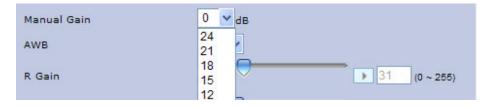


Set desired Shutter Speed from 1/25s to 1/10000s. When video type is PAL,the Shutter Speed can be set at 1/25, 1/50, 1/100, 1/120, 1/150, 1/200, 1/300, 1/500, 1/750, 1/1500, 1/5000 and 1/10000s. When video type is NTSC,the Shutter Speed can be set at 1/30, 1/60, 1/100, 1/120, 1/150, 1/200, 1/300, 1/500, 1/750, 1/1500, 1/5000 and 1/10000s.

### **Manual Gain**

Set Manual Gain value from 0 to 24dB. The increment is 3.

Figure 4-6 Manual Gain



### **AWB**

Figure 4-7 AWB



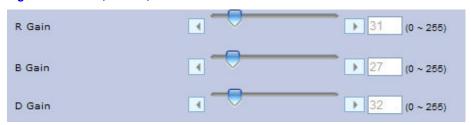
Set the white balance values to meet the environment condition for best color rendition.

"ON": The color of camera is automatically adjusted according to external lighting condition (ATW: Auto Tracking White Balance).

"OFF": Adjustable by user manually, this is useful for some specific conditions which AWB may be unaffordable to perform correctly. You can set the current R/B/D color temperature manually.

## R Gain, B Gain, & D Gain

Figure 4-8 R Gain, B Gain, & D Gain



Set manual gain value of R Gain, B Gain, GR Gain, GB Gain and D Gain from 0 to 255. This function is applied for manual lens only.

The red(R) gain is used to adjust the red color of the viewing image. It allows adjusting red gain manually according to user requirement, ranging from 0 to 255.

The blue (B) gain is used to adjust the blue color of the viewing image. It allows adjusting blue gain manually according to user requirement, ranging from 0 to 255.

The D gain is used to adjust the overall intensity of R gain and B gain. It allows adjusting blue gain manually according to user requirement, ranging from 0 to 255.

### **Noise Reduction**

You can set up the Noise Reduction value from 0-8.

Figure 4-9 Noise Reduction



### **Sharpness**

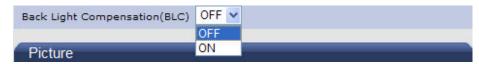
Figure 4-10 Sharpness



Increasing the sharpness value will sharpen the edges and small feature of camera images. You can set a Sharpness value for images from 0 to 255.

### **Backlight Compensation(BLC)**

**Figure 4-11 Backlight Compensation** 

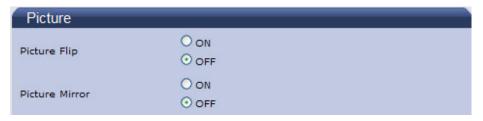


Users can choose to turn this function ON or OFF.

Back Light Compensation is a function that achieves the brightness of whole area to an optimum image level. Due to the intense light coming from the back of objects in the area expected to view, areas desired to see become dark and invisible. Therefore, this function is essential.

### **Picture**

Figure 4-12 Picture



### **Picture Flip**

Set image to be upside or down. Select "ON" or "OFF" to activate or deactivate the flip function.

### **Picture Mirror**

Set image to be left or right. Select "ON" or "OFF" to activate or deactivate the mirror function.

Note	Please click the "Save" button to save your settings. You can also click the left button "Reset to Default" to set all the data and options
	as defaults.

# Compression

- Select Compression.
- Configure the options as described in the table below.
- Click Save.
- Dual streams: Both Encoder No.1 & No.2 are available for selection.
- Functions of MJPEG, MPEG-4 and H.264 are effective. The video signal sent to the Web-Client from the camera has a number of settings that can be edited which affects the video as it's displayed in the Web-Client. The Compression Settings view enables you to configure settings such as Resolution, Frame Rate and Picture Quality. Besides, the network camera supports dual streams (for display and storage), should be configured separately.

### 1 The user interface of Encoder No.1 is as follows:

Figure 4-13 Encoder No. 1

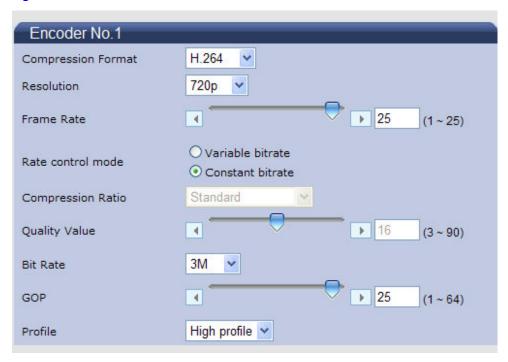


Table below elaborates the above figure.

**Table 4-1 Compression** 

Compression			
Item	Function Choice	Remark	
Encoder No.1			
Compression	MJPEG		
Compression Format	MPEG4	Set a default compression mode.	
	H.264		
	1080P		
	720P		
	D1	1080P is the highest resolution and,	
Resolution	4CIF	QVGA is the lowest resolution.	
	VGA	1080p only support H.264.	
	CIF		
	QVGA		
Frame Rate	PAL:1—25 NTSC:130	The frame rate is displayed per second.	

		PAL: H.264 single stream: 1080P, 720P,D1, 4CIF, CIF, VGA, QVGA@25fps MPEG4/MJPEG: VGA, QVGA,@25fps  NTSC: H.264 single stream: 1080P, 720P,D1, 4CIF, CIF, VGA, QVGA @30fps MPEG4/MJPEG: VGA, QVGA,@30fps
Rate control mode	Variable bit rate  Constant bit rate	Choose the Bit Rate control selection based on user requirements.
Compression Ratio	Customized mode Low Mid-low Standard Mid-high High	Low: this setting produces highest image quality while the file size increases. High: this setting produces lowest image quality while the file size decreases.
Quality value	MJPEG : 3-90 ; MPEG4 & H264 : 1-31	selectable
Bit Rate	256K 512K 1M 2M 3M 4M 6M 8M	It's optional only when constant bit rate is chosen. Select the desired bit rate including 256, 512, 1M, 2M, 3M,4M,6M and 8M b/s. When resolution is not 1080P nor 720P, 4M is the maximum.
GOP	1-64	Select the GOP (Group of pictures) number from 1 to 64.If the number is bigger, recovery of the lost frames will be more difficult; If the number is smaller, it will increase the bite rate obviously and aggravate the network loading. The default value is 25. GOP will be differed by fps setting. The maximum GOP is differed by Bit Rate setting.
Profile	Baseline High Profile	Selectable (H.264 only)

# 2 The user interface of Encoder No.2 is as follows:

Figure 4-14 Encoder No.2

Encoder No.2	
Compression Format	H.264
Resolution	D1 💌
Frame Rate	<b>1</b> ≥ 25 (1 ~ 25)
Rate control mode	O Variable bitrate Constant bitrate
Compression Ratio	Standard
Quality Value	▶ 16 (3 ~ 90)
Bit Rate	3M ×
GOP	<b>≥</b> 25 (1 ~ 64)
Profile	High profile *

Table below elaborates the above figure.

**Table 4-2 Compression** 

Compression			
Item	Function Choice	Remark	
Encoder No.	2		
	MJPEG		
Imaga Mada	MPEG4	Set H.264, MJPEG or MPEG4 as a	
Image Mode	H264	default compression mode.	
	no streaming		
Resolution		1) Encoder No.1: 720p; Encoder No.2:	
		D1/QVGA. 2)Encoder No.1: VGA, QVGA;	
	D1/4CIF/CIF/VGA/QVGA	Encoder No.2: VGA, QVGA.	
		3) Encoder No.1: D1, 4CIF, CIF. Encoder	
		No.2: D1, 4CIF, CIF.	
Frame Rate	PAL:125 NTSC:130	The frame rate that is displayed per second.	

		PAL: H.264/MJPEG/MPEG-4: D1, QVGA @25fps NTSC: H.264/MJPEG/MPEG-4: D1, QVGA@30fps
Rate control mode	variable bit rate	Choose the Bit Rate control selection based on user requirements.
Compression Ratio	Customized mode Low Mid-low Standard Mid-high High	Low: this setting produces highest image quality while the file size increases. High: this setting produces lowest image quality while the file size decreases.
Quality value	MJPEG : 3-90 ; MPEG4 & H264 : 1-31	selectable
Bit Rate	256K 512K 1M 2M 3M 4M	Select the desired bit rate including 256,512,1M,2M,3M,4Mb/s.
GOP	1-64	Select the GOP (Group of pictures) number from 1 to 64.If the number is bigger, recovery of the lost frames will be more difficult; If the number is smaller, it will increase the bite rate obviously and aggravate the network load. The default value is 25. GOP will be differed by fps setting.  The maximum GOP is differed by Bit Rate setting.
Profile	Baseline High Profile	Selectable (H.264 only)

Note	The GOP and FPS of H.264: 1080P/720P, MPEG4: 720P can't be setting lower than 5.		
Note	<ul> <li>If live view display abnormal after changing Camera's resolution, please adjust your computer's resolution.</li> <li>Please click the "Save" button to save your settings. You can also click the left button "Reset to Default" to set all the data and options as defaults.</li> </ul>		

Enco	der No.1	Encod	ler No.2
H264	1080P		
		1	
H264	720P	MJPEG	D1
H264	720P	MJPEG	QVGA
H264	720P	MPEG4	D1
H264	720P	MPEG4	QVGA
H264	720P	H264	D1
H264	720P	H264	QVGA
H264	D1	MJPEG	D1
H264	D1	MJPEG	4CIF
H264	D1	MJPEG	CIF
H264	D1	MPEG4	D1
H264	D1	MPEG4	4CIF
H264	D1	MPEG4	
H264	D1	H264	D1
H264	D1	H264	4CIF
H264	D1	H264	CIF
H264	4CIF	MJPEG	D1
V. 7. P. 100	2-20-20-20-20-20-20-20-20-20-20-20-20-20	200.000000	70000000
H264	4CIF	MJPEG	4CIF
H264	4CIF	MJPEG	CIF
H264	4CIF	MPEG4	27.7
H264	4CIF	MPEG4	100000
H264	4CIF	MPEG4	CIF
H264	4CIF	H264	D1
H264	4CIF	H264	4CIF
H264	4CIF	H264	CIF
H264	CIF	MJPEG	D1
H264	CIF	MJPEG	4CIF
H264	CIF	MJPEG	CIF
7204		100000000000000000000000000000000000000	0.5000
LIDEA			D.4
	CIF	MPEG4	10000
H264	CIF	MPEG4	4CIF
H264 H264	CIF	MPEG4 MPEG4	4CIF CIF
H264 H264 H264	CIF CIF CIF	MPEG4 MPEG4 H264	4CIF CIF D1
H264 H264 H264 H264	CIF CIF CIF	MPEG4 MPEG4 H264 H264	4CIF CIF D1 4CIF
H264 H264 H264 H264	CIF CIF CIF	MPEG4 MPEG4 H264	4CIF CIF D1
H264 H264 H264 H264 H264 H264	CIF CIF CIF	MPEG4 MPEG4 H264 H264	4CIF CIF D1 4CIF
H264 H264 H264 H264 H264	CIF CIF CIF CIF	MPEG4 MPEG4 H264 H264 H264	4CIF CIF D1 4CIF CIF
H264 H264 H264 H264 H264 H264	CIF CIF CIF CIF	MPEG4 MPEG4 H264 H264 H264	4CIF CIF D1 4CIF CIF VGA QVGA
H264 H264 H264 H264 H264 H264 H264 H264	CIF CIF CIF CIF CIF VGA VGA	MPEG4 MPEG4 H264 H264 H264 MJPEG MJPEG	4CIF CIF D1 4CIF CIF VGA QVGA
H264 H264 H264 H264 H264 H264 H264 H264	CIF CIF CIF CIF VGA VGA VGA	MPEG4 MPEG4 H264 H264 H264 MJPEG MJPEG MPEG4	4CIF CIF D1 4CIF CIF VGA QVGA VGA
H264 H264 H264 H264 H264 H264 H264 H264	CIF CIF CIF CIF VGA VGA VGA VGA	MPEG4 MPEG4 H264 H264 H264 MJPEG MJPEG MPEG4 MPEG4	4CIF CIF D1 4CIF CIF VGA QVGA VGA QVGA
H264 H264 H264 H264 H264 H264 H264 H264	CIF CIF CIF CIF CIF VGA VGA VGA VGA VGA	MPEG4 H264 H264 H264 H264 MJPEG MJPEG MPEG4 MPEG4 H264 H264	4CIF CIF D1 4CIF CIF VGA QVGA VGA QVGA QVGA QVGA
H264 H264 H264 H264 H264 H264 H264 H264	CIF CIF CIF CIF CIF VGA VGA VGA VGA VGA	MPEG4 MPEG4 H264 H264 H264 MJPEG MPEG4 MPEG4 H264 H264 MJPEG	4CIF CIF D1 4CIF CIF VGA QVGA VGA QVGA QVGA VGA QVGA
H264 H264 H264 H264 H264 H264 H264 H264	CIF CIF CIF CIF CIF VGA VGA VGA VGA VGA VGA QVGA	MPEG4 MPEG4 H264 H264 H264 MJPEG MPEG4 MPEG4 H264 H264 MJPEG MJPEG MJPEG	4CIF CIF D1 4CIF CIF VGA QVGA VGA QVGA QVGA VGA QVGA
H264 H264 H264 H264 H264 H264 H264 H264	CIF CIF CIF CIF CIF VGA VGA VGA VGA VGA QVGA QVGA QVGA	MPEG4 MPEG4 H264 H264 H264 MJPEG MPEG4 MPEG4 H264 H264 MJPEG MJPEG MJPEG MJPEG MPEG4	4CIF CIF D1 4CIF CIF VGA QVGA VGA QVGA QVGA VGA QVGA VGA QVGA VGA
H264 H264 H264 H264 H264 H264 H264 H264	CIF CIF CIF CIF CIF VGA VGA VGA VGA VGA VGA QVGA	MPEG4 MPEG4 H264 H264 H264 MJPEG MPEG4 MPEG4 H264 H264 MJPEG MJPEG MJPEG	4CIF CIF D1 4CIF CIF VGA QVGA VGA QVGA QVGA VGA QVGA

Encoder No.1	Encod	ler No.2
WDE0 1 7000	MUSES.	-
MPEG4 720P	MJPEG	D1
MPEG4 720P	MJPEG	QVGA
MPEG4 720P	H264	D1
MPEG4 720P	H264	QVGA
MPEG4 D1	IMJPEG	D1
MPEG4 D1	MJPEG	4CIF
MPEG4 D1	MJPEG	CIF
MPEG4 D1	MPEG4	D1
MPEG4 D1	MPEG4	4CIF
MPEG4 D1	MPEG4	CIF
MPEG4 D1	H264	D1
MPEG4 D1	H264	4CIF
MPEG4 D1	H264	CIF
	The second second	
MPEG4 4CIF	MJPEG	D1
MPEG4 4CIF	MJPEG	4CIF
MPEG4 4CIF	MJPEG	CIF
MPEG4 4CIF	MPEG4	D1
MPEG4 4CIF	MPEG4	4CIF
MPEG4 4CIF	MPEG4	CIF
MPEG4 4CIF	H264	D1
MPEG4 4CIF	H264	4CIF
MPEG4 4CIF	H264	CIF
MPEG4 CIF	MJPEG	D1
MPEG4 CIF	MJPEG	4CIF
MPEG4 CIF	MJPEG	CIF
MPEG4 CIF	MPEG4	D1
	100000000000000000000000000000000000000	1200
MPEG4 CIF MPEG4 CIF	MPEG4 MPEG4	4CIF
		0.000
MPEG4 CIF	H264	D1
MPEG4 CIF MPEG4 CIF	H264 H264	4CIF
WIPEG4 CIF	JH204	CIF
MPEG4 VGA	MJPEG	VGA
MPEG4 VGA	MJPEG	QVGA
MPEG4 VGA	MPEG4	VGA
MPEG4 VGA	MPEG4	QVGA
MPEG4 VGA	H264	VGA
MPEG4 VGA	H264	QVGA
MPEG4 QVGA	MJPEG	VGA
	0.0000000000000000000000000000000000000	
MPEG4 QVGA MPEG4 QVGA	MJPEG MPEG4	QVGA
		VGA
MPEG4 QVGA	MPEG4	QVGA VGA
MPEG4 QVGA	H264	QVGA
MPEG4 QVGA	H264	

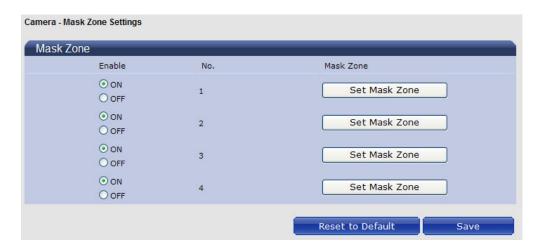
Encoder No.1	Encoder No.2
MJPEG 720P	H264 D1
MJPEG 720P	H264 QVGA
MJPEG D1	MPEG4 D1
MJPEG D1	MPEG4 4CIF
MJPEG D1	MPEG4 CIF
MJPEG D1	H264 D1
MJPEG D1	H264 4CIF
MJPEG D1	H264 CIF
MJPEG 4CIF	MPEG4 D1
MJPEG 4CIF	MPEG4 4CIF
MJPEG 4CIF	MPEG4 CIF
MJPEG 4CIF	H264 D1
MJPEG 4CIF	H264 4CIF
MJPEG 4CIF	H264 CIF
MJPEG CIF MJPEG CIF MJPEG CIF MJPEG CIF MJPEG CIF	MPEG4 D1 MPEG4 4CIF MPEG4 CIF H264 D1 H264 4CIF H264 CIF
MJPEG VGA	MPEG4 VGA
MJPEG VGA	MPEG4 QVGA
MJPEG VGA	H264 VGA
MJPEG VGA	H264 QVGA
MJPEG QVGA	MPEG4 VGA
MJPEG QVGA	MPEG4 QVGA
MJPEG QVGA	H264 VGA
MJPEG QVGA	H264 QVGA

# **Mask Zone**

- Enable button "ON", then click "Set Mask Zone" to start mask setting
- Use mouse to drag a mask rectangle on the screen, click "OK" to complete the selection.

Click "Save" to enable the mask setting.

Figure 4-15 Mask Zone





### Note:

Max 4 masks can be set on the screen.

The maximum size of a mask is 15% of the screen. .

### **Alarm**

# **External Digital Input 1**

When alarm input is connected, the camera triggers an alarm only when the normal state (open or closed) changes. Connect external devices such as sirens or flashing lights to the alarm output connector to signal users of the camera that an alarm is activated.

1 Alarm Input

Set the Alarm Input as "Alarm Input" or "OFF".

2 Input Type

Choose Normally Open or Normally Close

Figure 4-16 External Digital Input1

External Digital Input 1		
Alarm Input	O Alarm Input O OFF	
The following settings are enabled when alarm is set to other than 'OFF':		
Input Type	Normally Open (NO) Normally Closed (NC)	

### **Motion Detection Settings**

This function is designed to record video when the camera detects a motion.

**Figure 4-17 Motion Detection Settings** 



- Motion Detection: Users can choose to use this function or not by selecting "ON" or "OFF"
- Area: Set the area you want to trigger motion detection when there is something moving in your selected area.
- Sensitivity: Users can choose different levels of sensitivity which are 1~100.
- Object: Users can choose different levels of Object which are 1~100.

# **Alarm Output**

- Alarm mode: Set the Alarm Mode as Event. By alarm input or motion detect, alarm output works.
- Output Hold Time: Users can choose the hold time of alarm which can be 0s, 5s, 10s, 15s and 30s.

Figure 4-18 Alarm Output

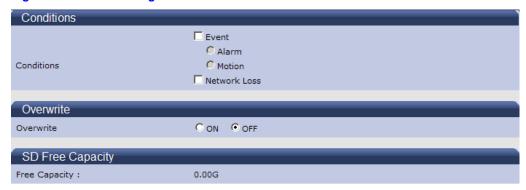


# **SD Recording**

Confined SD recording priority: alarm > motion > network loss.

This function is designed for storing video on the SD card. Insert SD memory card before power on. One stream of camera must be selected MPEG4 or H.264. Otherwise, SD recording function will be set "OFF" automatically.

Figure 4-20 SD Recording



Users can choose recording conditions between Event and Network Loss. When users select "Event", 2 more selections will be effective.

### **SD Free Capacity**

It shows the free capacity of the SD card.

- H.264 is the preferred source for recording.
- If both Encoder No.1 and Encoder No.2 are H.264, the stream will choose the Encoder No.2 as recording source.
- SD recording can be enabled only when user choose the following 5 combinations.

### **Note**

NO.	Encoder No.1	Encoder No.2
1	H.264 1080p	No streaming
2	H.264 720p	H.264 D1
3	H.264 720p	H.264 QVGA
4	H.264 720p	No streaming
5	MPEG4 720p	No streaming

Notes of SD memory card:

FAT32 format is available.

After stopping record, eject SD memory card.

Keep power during SD recording.

Cheap SD memory cards are not reliable. Expensive SD memory cards are recommended for data safety.

# **E-mail Notification**

You can receive alarm and motion information by setting your E-mail account.

### **Conditions**

Figure 4-21 Conditions

rigure 4-21 Conditions	
Conditions	
Conditions	
Conditions	☐ Alarm ☐ Motion

You can choose the form of the E-mail Notification of Alarm and Motion, but if choosing "Motion", should set Motion Detection as "on" in Alarm settings. And if choosing "Alarm", should set Alarm Input as "Alarm Input" in Alarm settings. See the picture below.

Figure 4-22 Motion detection Settings



## **Email Server Settings**

#### **Authentication Settings**

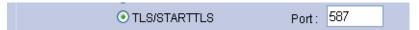
Figure 4-23 Email Server Settings

E-mail Server Settir	ngs		
Authentication	No Authen	tication	
		PLAIN	
	○ SMTP	LOGIN	
		TLS/STARTTLS	Port : 587

Select an authentication type.

- 1. No Authentication: no restrict rule
- 2. SMTP: Simple Mail Transfer Protocol (SMTP) is an Internet standard for electronic mail (E-mail) transmission across Internet Protocol (IP) networks.
- 3. PLAIN: PLAIN is the name of a registered SASL authentication mechanism, which serves as a parameter to the AUTH command. The PLAIN authentication mechanism is described in RFC 2595. PLAIN is the least secure of all the SASL authentication mechanisms, since the password is sent unencrypted across the network.
- 4. LOGIN: The LOGIN mechanism is supported by Microsoft's Outlook Express, as well as by some other clients.
- 5. TLS/START TLS: when select this item you can change the data beside it

Figure 4-24 Choosing TLS/START TLS



E-mail Server (SMTP): Enter your outgoing mail server (SMTP).

E-mail User ID: Input your E-mail account ID number.

Password: Input your E-mail account password.

Password (Confirm): Confirm your E-mail password.

Administrator E-mail Address: Input the E-mail address which you want the email to be sent to.

Press "save & test E-mail" button to save your setting and to test your E-mail setting.

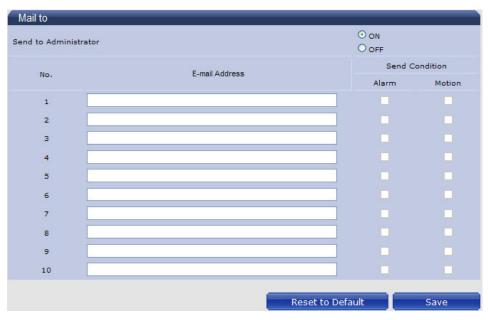
Figure 4-25 Email Information

E-mail Server (SMTP)		
The following 3 items are enabled when 'S	MTP' is selected	
E-mail User ID		
Password		
Password (Confirm)		
Administrator E-mail Address		Save & Test E-mail

#### Mail to

This function is designed to send multiple users when the alarm in or motion detection function is set.

Figure 4-26 Mail to



If "Send to Administrator" is set to "ON" when a motion happens, the E-mail server will always send a mail to the administrator. And E-mails can also be sent to multiple users when a motion occurs.

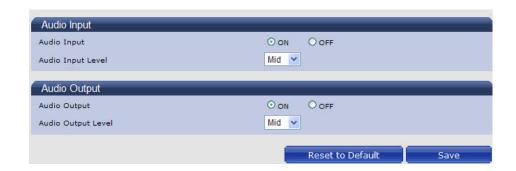
Note

Please click the "Save" button to save your settings. You can also click the left button "Reset to Default" to set all the data and options as defaults.

#### **Audio**

You can set up your audio setting by enabling audio input and output.

Figure 4-27 Audio Settings



# **Audio Input**

- Audio Input: Set to "ON" when receiving audio from a microphone connected to the camera.
- Audio Input Level: Select among High, Mid and Low.

Figure 4-28 Audio Input



#### **Audio Output**

- Audio Output: Set to "ON" when delivering audio to a speaker connected to the camera,
- Audio Output Level: Select among High, Mid and Low

#### Figure 4-29 Audio Output



Note: Audio Input/Output can have some noise and delay.

Note

Please click the "Save" button to save your settings. You can also click the left button "Reset to Default" to set all the data and options as defaults.

# **Network Settings**

## **Basic**

#### **Basic**

Figure 4-30 Network basic

Mode	DHCP (Automatically obtain (P address)     Manual (Manually use the following IP address)
IP Address	192 168 61 115
Subnet Mask	255 265 255.0
Default Gateway	192 168 81 254
Primary DNS	168.95.192.1
Secondary DNS	168.95.1.1

#### **Network**

- IP Address: Input your IP address here when you select "Manual".
- Subnet Mask: Please use default number: 255.255.255.0. If the subnet mask is not properly configured, the camera may not be able to communicate with other devices on the network.

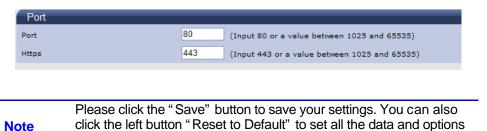
- Default Gateway: leave it blank as default setting. It is unnecessary to enter Default Gateway if it is not used. Ask your Network Administrator for Default Gateway information.
- Primary DNS: (same as above)
- Secondary DNS: (same as above)

#### Live Stream

Protocol: This is used by Live View.
 Users can select TCP or Http protocol.

#### Port

- Port: This is Http port number of WEB server in the camera. When Http is selected for Live Stream Protocol, Live View also uses the port number. We recommend using the default port; if you need to change the default port, please contact your system administrator. Options: 1025 to 65535 (80 is the default). After changing the port number, enter URI with the port number to IE. (Example: 192.168.0.2:8080)
- Http: This is Http port number. We recommend using the default Http if you need to change the default Http, please contact your system administrator. Options: 1025 to 65535 (443 is the default).



#### **FTP Server**

In this page, you can activate a FTP Server to visit SD card for SD recording result.

- Click "ON" to activate the FTP function. Then you should follow the following procedures to set up related settings. Or "OFF" to disable the FTP function and you can skip the following procedures.
- Enter a login ID if you activate the FTP function.
- Enter a password associated with a login ID.
- Re-enter the password to confirm it.

as defaults.

- Determine the number of maximum connections by selecting a number from the drop-down list in the Max Simultaneous Connections field. Note: This parameter is the max of FTP Client connections, not the max of IE Window's connections.
- Enter <a href="ftp://<Login ID>:<Password>@<ip-address>in Windows Explorer, then you will find the SD recording result.">Ftp://<Login ID>:<Password>@<ip-address>in Windows Explorer, then you will find the SD recording result.</a>

The original setting is <a href="mailto:the-sub-recording-record-refers">the SD recording files</a>, date and time of record refers to the folder's and file's name.

Figure 4-31 FTP Sever Settings



# **RTSP**

#### **Authentication**

**Note** 

You should enter the Login ID, Password and Password (confirm) if select "ON".

Figure 4-32 Authentication

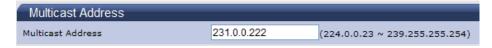
as defaults.



#### **Multicast Address**

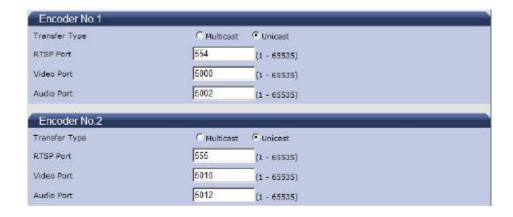
You could choose the value from 224.0.0.23 to 239.255.255.254.

Figure 4-33 Multicast Address



Encoder No.1 & Encoder No.2

Figure 4-34 Encoder No.1 & Encoder No.2



Please choose desired options and value and remember to click "save" button to save all your settings.

Note: RTSP URIs for Encoder No.1 & Encoder No.2 are:

rtsp://(ip address):(port1)/livestream rtsp://(ip address):(port2)/livestream

# **Https**

Figure 4-35 Certificate File Upload



Users can upload certificate here: Click "Browse", it will pop out a window then you can choose the file that you want to upload.

# **Admin Function**

### **Administrator**

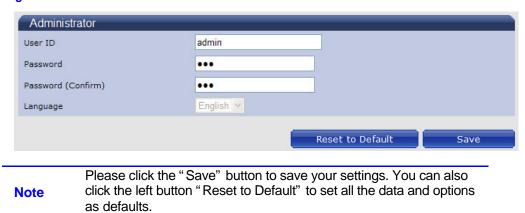
Press the item-Administrator Function on setting menu. You can setup system password.

The default setting for system Admin ID and password is:

User ID: **admin**Password: **jvc**Language: English

You can enter your own Admin ID and password at this field.

Figure 4-36 Administrator



#### **User List**

Besides administrator, guests can access the camera under authorization from system administrator by ID and password controller. However, User1~5 are allowed to review the live picture only. Without authorization, any operation will be forbidden.

- The default guest's login name and password are "user" and "jvc".
- Enter a guest's User ID in the User ID field.
- Enter a password associated with a guest's User ID
- Re-enter the password again to confirm it.

Figure 4-37 User Setting 1



Finally, click Save to save the settings.

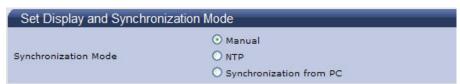
Figure 4-38 Reset



### **Date/Time**

# Set Display and Synchronization Mode

Figure 4-39 Date and Time



The user can choose Synchronization Mode here from three different types.

# **Set Date and Time Manually**

Set up the camera's date and time in the Set Date and Time Manually field.

Figure 4-40 Set Date and Time Manually



# Set Date and Time by NTP Server

- 1. Time Zone: Select the time zone where your camera is located.
- 2. NTP Server: Select NTP in the Synchronization Mode. If "NTP" is selected, the date and time will be synchronized by the NTP server. Note: Please make sure disable SD recording function before you enable NTP synchronization mode.
- 3. Time Adjustment Period :Users can choose time adjustment intervals
- 4. Finally click "Save &Test"

Figure 4-41 Set Date and Time By NTP Server

Set Date and Time By NTP Server	
Time Zone	GMT ±0 Greenwich Mean Time : Dublin, Edinburgh, Lisbon, London 🗾
NTP Server	
Time Adjustment Period	On camera boot and at 6-hour intervals
NTP Time Adjustment Test	Save & Test

### **Daylight**

#### Figure 4-42 Daylight



#### **Daylight Saving**

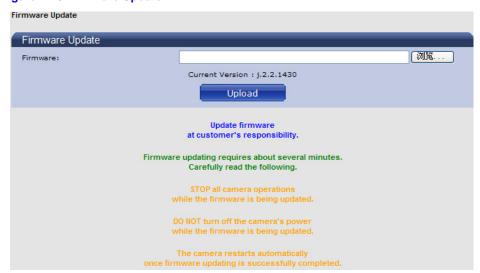
Select "ON" to activate the daylight-saving function if you are in a daylight saving time zone (effective for NTP mode only), and then choose the starting time ,ending time and time adjustment.

Please click the "Save" button to save your settings. You can also click the left button "Reset to Default" to set all the data and options as defaults.

# **Update**

You can update system firmware if the update file is available. It is the customer's responsibility to update firmware. All camera motions will shut down during firmware update. Close any other screens before starting a firmware update. Never disconnect power and LAN cable during the firmware update process. Rebooting the camera after firmware update may take approx. 15 minutes. After you finish FW update, please reboot your computer first time. Be careful, power can't be shut down when you're updating firmware. Otherwise, it will cause FW update failure and you have to call back to maintenance.

Figure 4-43 Firmware Update



# **Configuration**

### Video Type

Users can select "NTSC" or "PAL" according requirement.

Flicker by fluorescent light can be reduced by selecting PAL mode if the public power is 50Hz, or NTSC mode if the power is 60Hz.

Figure 4-44 Video Type



Note: Analog video output is not available.

## **Import Configuration Settings**

This function is designed to upload configuration setting from the client computer to network cameras.

**Figure 4-45 Import Configuration Settings** 



## **Export Configuration Settings**

This function is designed to export configuration settings to the client computer.

**Figure 4-46 Export Configuration Settings** 



# **Set to Factory Default**

This function is designed to reset all configuration settings into factory default.

Figure 4-47 Set to Factory Default



#### **Network Camera Reboot**

This function is designed to reboot the camera.

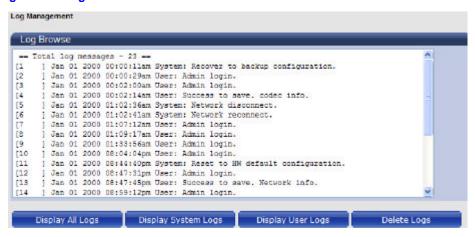
**Figure 4-48 Network Camera Reboot** 



# **Event Log**

Click the buttons to display the desired logbooks or to delete all logs.

Figure 4-49 Log Browse



# **Information**

FW version and MAC address will be shown.

Figure 4-50 FW version and MAC address

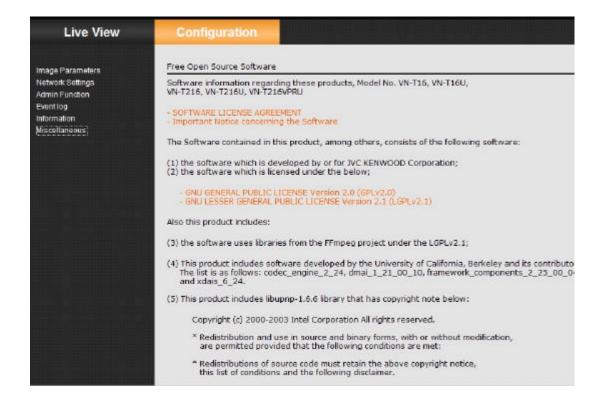
FW Version: j.2.2.1430

Mac Address: 54:4F:50:43:4F:0D

# **Miscellaneous**

Click the button. This camera contains free open source code.

Figure 4-51 Miscellaneous



# **5 Specification**

Operational Specifications	
Image device	1/2.7-type Mega-pixel CMOS sensor
Sensitivity	Color:0.6 lx, B/W: 0.6 lx (50%)
Day/Night	Easy D/N
Auto Gain Control	Off/On, selectable
White Balance	ATW (2800K~ 8500K) and Manual
Florida Obrattan	PAL:1/25~1/10000 sec
Electric Shutter	NTSC: 1/30~1/10000 sec
Noise Reduction	Yes
3 Axis Gimbals	Yes
Motion detection	Yes
Lens Type	1/3-type 3-9mm - F:1.2
BLC	Yes
Audio	Line in/out
Alarm	1 in / 1 out (Alarm out spec: 0.5A / AC120V max)

IP Specifications	
Video Compression	H.264 & MPEG4 & MJPEG
Video Streaming	Real time stream:  1080P H.264 or 720P H.264+D1 or D1+D1 Independent controllable frame rate and bandwidth. Constant or variable bitrate control
Resolution	NTSC: 1080P(1920 x 1080), 720P(1280 x 720), D1(720 x 480), 4CIF(704 x 480), VGA(640 x 480), CIF(352 x 240), QVGA(320 x 240) PAL: 1080P(1920 x 1080), 720P(1280 x 720), D1(720 x 576), 4CIF(704 x 576), VGA(640 x 480), CIF(352 x 288), QVGA(320 x 240)
Image Frame Rate	PAL: Up to 25fps NTSC: Up to 30fps
Security	Multiple user access levels with password protection
Users	1 Administrator, 5 users
Video Access from Web Browser	Full control of all camera settings available to administrator
Minimum Web Browsing Requirements	Windows XP or Windows 7 as OS, Internet Explorer Version 6.0-8.0, CPU: Intel Pentium IV X2 2.4 GHz or equivalent AMD, Memory: 1G or above
Network interface	RJ-45, 100BASE-TX/10BASE-T, FULL/HALF/Auto negotiation
Supported Protocols	IPv4, Http, TCP, RTSP, RTP, ICMP, UDP, IGMP, RTCP, FTP, DNS, DHCP, ARP
Surveillance Protocol	ONVIF Compatible (pass compliance test tool)
Onboard Storage	SDHC (suggest class 10)

Electrical	
Power Supply	PoE IEEE 802.3af Class 0, DC12V, AC24V
Power Consumption	PoE 0.13A, DC12V 550mA
Mechanical	
Dimension	Ø126mm x 106mm
Weight	490g
Connectors	Power Input: removable terminal block Network: RJ45 connector Audio In/out: removable terminal block Alarm In/out out: removable terminal block
Environmental	
Operating Temperature	-10°C to 50°C
Operating Humidity	0% to 90%
Storage Temperature	-20°C to 60°C



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