

# FE-501DM

5MP Fisheye Indoor PoE Dome Camera



www.airlive.com





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### Federal Communication Commission Interference Statement

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

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

### FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

### **FCC Radiation Exposure Statement**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

### WEEE Marking Warning:

The crossed out wheeled bin indicates the product must not be disposed together with household waste. For the sake of the environment, the product should only be given to entities involved in the reception of waste electronic and electrical equipment. The lists of entities entitled to receive used equipment can be found on the websites of municipalities. Some components of devices such as external wiring, circuit boards and liquid crystal displays have a negative impact on the environment.



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# 1

# Overview



This user's manual explains how to operate this camera. Users should read this manual completely and carefully in advance.

# **1.1 Introduction**

AirLive FE-501DM is a Fish-Eye Panorama Network Dome Camera featured with 5Mega Pixel resolution respectively and superior H.264-AVC performance and rich functions. FE-501DM includes a fish-eye lens for 360° panoramic wide angle view without blind spot. It is very suitable to view a wide area with single camera such as hallway, store, and office without the need to install multiple cameras.



The hardware base panorama video processing ability provides user flexible video layout including Panorama, Original View, Double Broad View, Triple View and Quad View. The e-PTZ function, including preset point without moving parts, can replace part of traditional PTZ camera and thus save lost of traditional mechanical Pan/Tilt maintain cost. The PoE function is designed for flexible installation.

Further functions include two-way audio, DI/DO alarm application and micro SD card support for local storage application.

### **1.2 Features**

This manual will illustrate the steps of how to setup and operate this IP camera, so you'll also soon be enjoying the benefits of these product features:

5-Megapixel CMOS Sensor 15 fps@1920x1920 Full HD Dewarping the Image via Fisheye Correction Processor Removeable IR-cut Filter for Day & Night Function Real-time H.264, MPEG-4, and MJPEG Compression ROI ( Region of Interest ) Provide for 5 Independent Streams Minimum 0.1 Lux for Night Vision WDR Enhancement for Visibility in Extremely Bright or Dark Environments Two-way Audio Communication, built-in Microphone and Audio Output Built-in MicroSD Card Slot, support SDHC/SDXC 64GB or above Builtin 802.3af Compliant PoE OnVIF Compliant for Interoperability

## **1.3 Product Specification**

Camera	FE-501DM
CPU	Multimedia Soc (System-on-Chip)
NOR Flash	16MB
RAM	512MB
	Camera Features
Image Sensor1/2.5" Progressive CMOS Sensor	
Maximum Resolution	1920x1920



Lens Type	ens Type Fisheye Fix Lens	
Focal Length	f=1.05mm	
Aperture	F=2.8	
Field of View	180°(Horizontal/Vertical/Diagonal)	
WDR Technology	WDR Enhanced	
Day/Night	Removable IR-cut filter for day & night function	
Minimum Illumination	1.9Lux @F2.8(Color) ; 0.1Lux@F2.8(B/W)	
Pan/Tilt/Zoom	ePTZ:10x digital zoom	
On-board Storage	Built-in MicroSD card slot, support SDHC/SDXC 64GB or	
	above	
	Video	
Compression	H.264, MJPEG & MPEG-4	
Display Mode	360° Source View, 360° Broad View,	
	180° Double Broad View, Triple View, Quad View,	
	3 PTZ with Source View	
	15fps@1920x1920	
Maximum Frame Rate	15fps@1920x1080	
	30fps@1600x1200(HI-FPSMode)	
	30fps@640x480	
Maximum Streams	5 simultaneous streams at ROI Mode	
	3 simultaneous streams at Normal Mode	
S/N Ratio	Above 39 dB	
Dynamic Range	100 dB	
Video Streaming	Adjustable resolution, quality and bitrate	
	ROI(Region of Interest) Provide for 5 Independent Streams	
	Adjustable image size, quality and bitrate	
	Configurable brightness, saturation, exposure control,	
Image Settings	sharpness, contrast, white balance, auto shutter control,	
	auto gain control, noise reduction, EV luminance control,	
	flip & mirror, privacy masks, time stamp, text overlay	
	Audio	
Audio Capability	Audio input/output (full duplex)	
Compression	G.711u	
Interface	Built-in microphone	
	External microphone input	
Effective Range	5 meters	
	Network	
Users	Live view for up to 10 clients	



	HTTP, HTTPS, TCP/IP, IPv4, UDP, SMTP, FTP, DHCP,
Protocols	DDNS, NTP, DNS, ARP, RTSP, RTP, UPnP, OnVIF (Profile
	S), Multicast
Interface	10 Base-T/100 Base TX Ethernet(RJ-45)
OnVIF	Ver.2.2
	Intelligent Video
Motion Detection	Ten-window video motion detection
	Alarm and Event
Alarm Triggers	Video motion detection, manual trigger, digital input,
Alarm mygers	periodical trigger, system boot, recording notification
	Event notification using digital output, HTTP, SMTP, FTP
Alarm Events	and NAS server
	File upload via HTTP, SMTP, FTP and NAS server
	General
Connectors	RJ-45 cable connector for Network/PoE connection
	Audio input
	Audio output
	DC 12 V power input
	Digital input*1
	Digital output*2
Power Input	DC 12V
	IEEE 802.3af PoE
Power Consumption	Max. 5.1W(DC 12V)
•	Max. 5.3w(PoE)
Dimensions	Ø: 196 x 57.3mm
Weight	Net: 350g
Safety Certifications	CE, FCC Class B, LVD
Operating	0°~50°C
Temperature	
Operating Humidity	10%~80%
	System Requirements
Operating System	Windows® 2000, XP, Vista, 7
Web Browser	Mozilla Firefox 7~10, Internet Explorer 7.x or 8.x,
	Chrome/Safari 4.0 or above
Video Player	VLC, Quick Time, Real Player, Core Player



# **1.4 System Requirement**

For normal operation and viewing of the network camera, it's recommended that your system meets these minimum requirements for proper operation:

Item	Requirements
CPU	Intel Core 2 Duo E8600(3.33GHz) or higher
VGA Monitor	Resolution1280 x 1024 or higher
RAM	Minimum 2 GB of RAM
Operating System	Window XP, Vista, 7, 8
Web Browser	Internet Explorer 9 or later; Apple Safari; Firefox; Google Chrome
Recorded File Playback	Microsoft Media Player 11.0 or later

Note: Please keep updating the latest Windows software and service package.

(Ex: Net Framework, Windows Media Player, Enhance ActiveX Security)



# 2

# Package Contents and Installation

# 2.1 Package Content

User can find the following items in the package as below:

- 1. **FE-501DM** is the main element of the product.
- 2. Power Adapter dedicates 12V DC electric power output to Network Camera.
- 3. **Bundle CD** provides installation software, application program, important information and instructions for operating the Network Camera.
- 4. **Quick Start Guide** provides important information and instructions for installing this device.

## 2.2 Connections

### **Power Source Requirement**

This camera can work with 802.3af PoE switches. However, if you don't have the PoE switch, you can use a power adapter to provide power to camera.

### Connectors

Please refer to the diagrams below for the definition of each connector.





- 1. <u>Light Sensor</u>: The Light sensor is for detecting IP Camera environmental illumination, and if IP Camera was in the dark/night environment, IR Cut Filter is switched off to let infrared light pass through for clear night view.
- 2. <u>MIC</u>: The IP Camera has built-in an internal microphone, which is hidden in the pinhole located on the front panel.
- 3. <u>Lens Focus Adjustment</u>: Rotate the lens to adjust the focal length to the best image. If necessary, clean the lens with a soft cotton cloth.
- 4. <u>Speaker</u>: The IP Camera has built-in an internal speaker, which is hidden in the pinhole located on the front panel.
- <u>Reset button</u>: This button is hidden in the pinhole.
   Insert a pin into the reset hole to press the reset button and keep pressed about 3 seconds until PWR LED start refreshing with orange color.



- <u>Power Jack</u>: The input power is DC 12V.
   Note: ONLY use power adapter supplied with the package. Otherwise, the product may be damaged.
- 7. <u>RJ-45 LAN Socket</u>: Connect to PC or Hub / Switch.



For connect to 10Base-T Ethernet or 100Base-TX Fast Ethernet Cabling. This Ethernet port built audio-negotiation protocol which can detect or negotiate the transmission speed of the network automatically.

Please use CAT-5 or above cable to connect the Network Camera to a 100Mbps Fast Ethernet network switch or hub.

**Note:** ONLY use one power source, either from DC or from 802.3af Power over Ethernet.

- 8. <u>MicroSD Card slot</u>: The IP Camera has built-in a MicroSD card slot which can accepts MicroSD memory card for image / video event recording.
- 9. <u>Audio In</u>: Connect a microphone to the IP Camera, be noted to use actively microphone (normally with power supplier on microphone) for this application.
- 10. <u>Audio Out</u>: Connect a loud speaker to the IP Camera. This is for voice alerting and two-way audio. Be noted to use actively speaker (normally with power supplier on speaker) for this application.

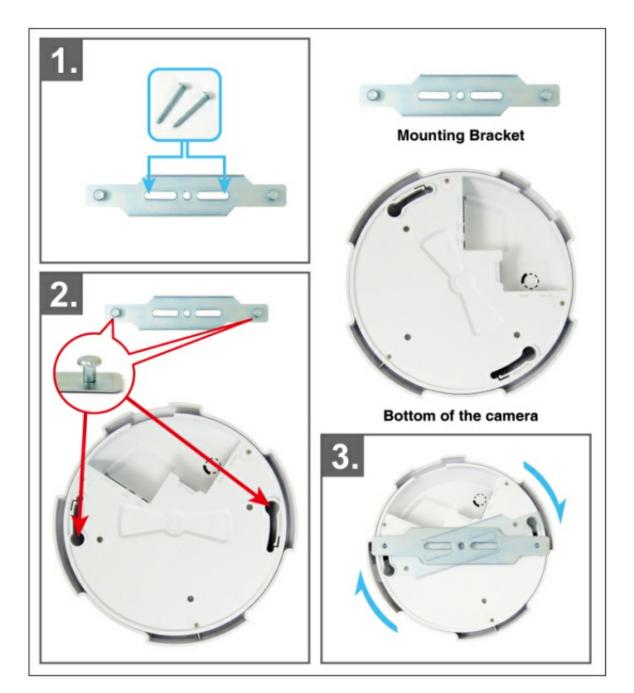
Pin	Function	Description	
1	GND	Digital Input: only one set is designed in this Camera	
2	DI	Model. The internal device is also photo-coupled electrical	
3	GND	relay; and the external device can be simply an On/Off	
4	DO_COM	switch. Each set of On/Off switch can be connected as one	
5	DO_NO2	trigger source.	
6	DO_COM	<b>Digital Output:</b> each digital output pin to COM is a photo-	
7	DO_NO1	coupled relay on Normal Open status. External device can directly connect to the terminals. However the current that will go through the 2 nodes must not exceed 130mA. An external "Relay" can also be connected to the terminals as an implementation. In this case, current (or/and voltage) limitation is specified by the external Relay.	

11. <u>GPIO</u>: The 7 pin terminal block includes 1 input port and 2 output ports.



## 2.3 Mounting the Camera

Please attach the supplied alignment sticker to the place you would like to set up first. And then follow the drilling and installing instructions on the sticker to complete Camera's installation.

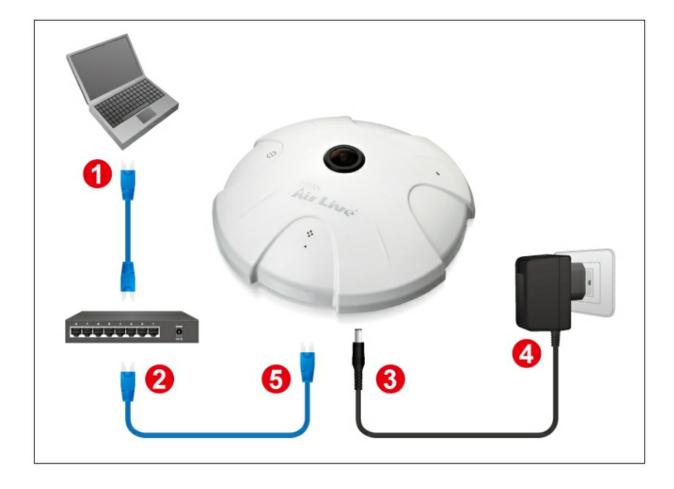


Note: Always mount the Camera on mounting bracket to prevent over heating.

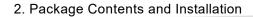


2. Package Contents and Installation

### 2.4 Install the Camera in LAN



- 1. Prepare a PC/notebook/ultrabook with Ethernet link to the network.
- 2. When PC/notebook is used, connect the LAN port of the device to the network router with an RJ45 network cable ( 2 a).
- 3. Plug the DC power jack of the power adaptor (E) to Camera and connect the power adaptor to power outlet (110V or 220V).
- 4. Connect the network router to the LAN port of Camera with an RJ45 network cable (∃).
- 5. With power switched on, check the status of the two LEDs at the back of camera: If the Network LED flashes with green color, it confirms that the Camera has successfully linked with the Internet.







Network LED should blink with green color to indicate successful link to the Internet.

Besides, if Orange LED indicator also light-up at the same time, it means your camera just connect to Intranet only; not through Internet Network.

# 2.5 Connect to IP Camera

- 1. Insert the bundled CD into your PC/Laptop.
- 2. Auto Run screen pops up, click "Install Software AirLive IP Wizard II" to install the configuration tool.

Air Live Fish	eye IPCAM Series
Install Software	
User's Guide	
Installation Video	
Browse CD	
EXIT	
/// Driver & Manual CD	(www.airlive.com)





3. After completing installation, run the "Air Live IP Wizard II" to start to search the IP camera.

Device Title	IP Address	Port	MAC	
Searc	hing 66%			
	000			
SEARCH	Camera:		User Name: admin	
VIEW O	Model Name:		Password: ******	
LAN	Network:			
	DHCP:		Off-Line	
	WiFi:		OI I - LINE	
EXIT	Connection:			



### 4. The entire detected IP camera will be listed out.

Air Live IP Wizard II	Version 1.0.0.3	Int	erface : 192.168.1.2	
Device Title	IP Address	Port	MAC	
FE-501DM	192.168.1.100	80	00-04-29-42-41-01	
SEARCH	Device Device Name: FE-	501DM	User Name: admin	
VIEW O			Password:	
LAN		/ired DFF		
WIRELESS	WiFi: Ether	net Only	Off-Line	
EXIT	Connection: Not Co	onnected		

5. If the Camera's IP address is in the same IP segment as your LAN, select the founded IP Camera and double click on the item. Then, the default browser will show up and connect to the IP camera's Web automatically.





# Using IP Camera via Web Browser

### 3.1 Windows Web Browser

- 1. Open your web browser and enter the IP address or host name of the IP camera in the Location / Address field of your browser.
- 2. Use the default account "admin" and default password "airlive".

Windows Security	
	.168.1.100 is asking for your user name and password. The that it is from FE-501DM.
	user name and password will be sent using basic on a connection that isn't secure.
	User name
	Password  Remember my credentials
	OK Cancel

**Note:** The default user name "**admin**" and the password "**airlive**" are the default values. You can change them in the Security Menu. (Please check "Configuration  $\rightarrow$  Security")

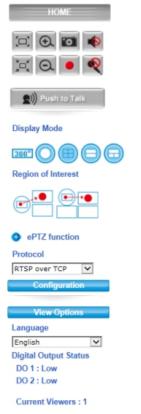
3. The monitor image will be displayed in your browser. In the left side of main window, you can configure the settings you want. For more details, please refer to the following chapters.



4. Operating the Network Camera

# **Operating the Network Camera**

You can operate live view function on the main page, please refer to the description below:





o Type:H264 Resolution:1920x1920 E \*Click on video screen to start PT.

# 4.1 Live View

1. Original size / Preview Size



Switches live image view between original size (Depends on main stream setting) and preview size.

2. Digital Zoom



You can see larger objects in video.



Note: The digital zoom uses computer algorithm to enlarge the video and may lose some details.

3. Snapshot

Take a snapshot and save images into your computer.



Press Record button to start recording and press Stop to terminate the recording.

### 5. Speaker

4. Record



You can enable or disable the speaker/microphone function here.

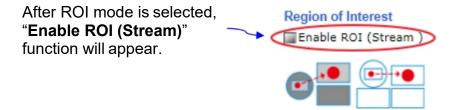
After enable any of these two function, you can adjust the volume by dragging the bar.

### 6. Display Mode

360°	360 degree Broad View
$\bigcirc$	360 degree Full View
	Quad View
	Double-Broad View (180 degree Ultra Wide Angle View x 2)
	Triple View (180 degree Ultra Wide Angle View + Twin PTZ View)

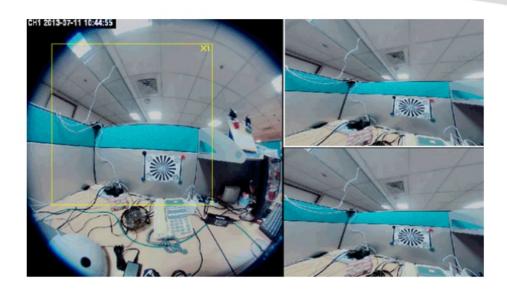
### 7. Region of Interest

Two Operation Modes (Triple and Quad with Source View) are supported.



For the first time use, you may Left-click the mouse button under lower-left, upper-right or lower-right Live View Window. Then you could see a x1 frame displaying in the Source View Window.





Scrolling the mouse wheel could change region's magnifying power (x1 to x10); and dragging the frame with mouse could move the amplified region.

In the meanwhile, you could also see region's amplification effect displayed real time in the lower-left, upper-right or lower-right Live View Window.

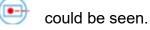


While **Stream**) is checked, each window could be treated as an individual stream.

Such as Quad with Source View will have five stream output maximum at the same time.

**rtsp://camera ip address/live1.sdp** means whole display window could be seen.

rtsp://camera ip address/live2.sdp means upper-left Source View Window



AirLive FE-501DM User's Manual



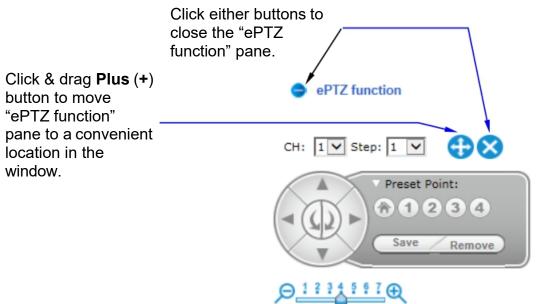
**rtsp://camera ip address/live3.sdp** means upper-right Display Window **test** could be seen.

**rtsp://camera ip address/live4.sdp** means lower-left Display Window could be seen.

**rtsp://camera ip address/live5.sdp** means lower-right Source Display Window could be seen.

### 8. ePTZ function

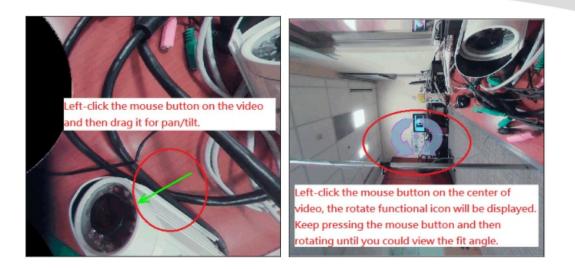
When the Double-Broad View, Triple View or Quad View PTZ display mode is selected, click the "ePTZ function" tool to display the PTZ setting tools as shown and explained below.



- □ <u>CH:</u> Select the PTZ channel or display window (1, 2, 3 or 4) to implement PTZ setting.
- □ <u>Step:</u> Adjust and set the speed of live view panning motion.
- □ <u>Zoom Slider:</u> Drag slider to zoom-in and zoom-out the selected scene. Zoom setting is saved with the selected pre-defined point of view area.
- □ <u>Directional Buttons:</u> Use to manually pan or

rotate (I) the scene to select and zoom a specific area (1 of 4 maximum) to be monitored. To reset the scene back to its original status, click the Home (Internet) button. You can also directly click the mouse button on the video to drag for pan and tilt, roll the mouse wheel for zoom a selected area.





Preset Point: After panning and zooming, assign the selected area a Preset Point (1 to 4) and click "Save" button to store the setting. The pre-defined point of view areas will be monitored in sequence. To cancel the selection, click "Remove" button.

### 9. Protocol

User can select proper streaming protocol according to network environment.

### **10. View Options**

It is a pull-down list for video streaming.

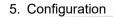
### 11. Language

FE-501DM supports multi-language.

Language
English
PORTUGUÊS-BRASIL
Русский
日本語
한국어
简体中文
繁體中文

## 4.2 Configuration

Click "Configuration" for the camera's detail settings. For more information, please refer to Chapter 5.



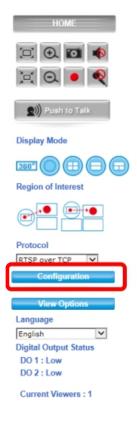


# 5

# Configuration

Click the "**Configuration**" to display sub-menus included:

### Network / Video / Audio / Event / Storage / System





Video Type:H264 Resolution:1920x1920 Bitrate:5764



### 5.1 Network

In this menu, you can configure network function here.

### 1. General

6	Network					
	General	DDNS	Multicast	IP Filter	l	
ſ	— Network S	ettings —				
	OHCP					
	C Fixed I	P Address				
	O PPPoE					
ſ	— Port Settin	1gs ———				
	HTTP Po	ort:	80			
	RTSP Po	ort:	554			
	Save					

The "General" tabbed pane (shown above) allows you to redefine the network and port protocol settings of the Network Camera.

### **Network Settings:**

- <u>DHCP</u>: This option obtains the available dynamic IP address assigned by the DHCP server each time the Camera is connected to the network.
- Fixed IP Address: This option manually assigns a static IP address to the Network Camera. The default setting is 192.168.1.100.
- □ <u>PPPoE</u>: Select this option to set PPPoE account & password.



PPPoE	
PPPoE User Name:	
PPPoE Password:	
Recipient E-mail Address:	rcpt@mail.com
	(ex: rcpt@mail.com )
SMTP E-mail Server:	192.168.1.1
	(ex: mail.examples.com or 192.168.1.1 )
SMTP Port:	25 (065535)
SMTP user name:	guest
SMTP Password:	•••••
Sender E-mail Address:	from@mail.com
	(ex: from@mail.com )
Use SSL-TLS:	None 🔽

While PPPoE protocol is selected, you may have to enter some more information such as the above picture.

While Camera IP is changed dynamically because of PPPoE Network Connection, its new IP Address will be sent to "Sender E-mail Address" through SMTP service. So you won't worry about the difficulty in Camera's Webpage access.

※ As for the settings of SMTP Service, kindly please contact with your E-mail service provider ∘ After you confirm all parameters are correct and working properly, you may enter them into the text area manually.

### **Port Settings:**

- □ <u>HTTP Port</u>: Re-define the existing HTTP Port number in the text box.
- □ <u>RTSP Port</u>: Re-define the existing RTSP Port number in the text box.

Save : After setups are completed, click "Save" button to apply the settings.



#### 2. DDNS

General	DDNS	Multicast IP Filter
— Dynamic DN		
DDNS Enab	ole	
Provider:		dyndns.com
		Link to http://www.dyndns.com
Host name:		hostname
		(ex: ddns.test.com)
User Name:		username
Password:		•••••
		Show Password
Update Time:		1000 ( 600~86400 Seconds )
Status:		No connection Enabled check box to display password in
Save		decoded format

The "DDNS" tabbed pane allows you to configure the Dynamic Domain Name System of your network device with a host name instead of the IP Address.

**DDNS Enable:** Enable the check box to support DDNS function.

**Host Name:** Enter the Host name which you registered and got through DNS Service Provider. The assigned host name is used to access the network device instead of IP Address.

**User Name/Password:** Account authentication for logging into the website of DNS Service Provider.

**Update Time:** Define a time interval for the device to periodically update and check its access status with website of DNS Service Provider.

Save

After setups are completed, click "Save" button to apply the settings.



#### 3. Multicast Tab

#### Network

General DDNS	Multicast IP Filt	ter
Multicast Settings Multicast Group Address: Multicast Port: Multicast TTL:	239.128.1.100 5560 (1 ~ 1 15 (1 ~ 25	(224.3.1.0 ~ 239.255.255.255) 65535) 55)
Stream 1 Enable Multicast Video Port: Multicast Audio Port: Multicast Metadata Port:	5560 5562 5564	
Stream 2 Enable Multicast Video Port: Multicast Audio Port: Multicast Metadata Port:	5566 5568 5570	Check the "Enable" box to open <u>UDP Multicast</u> <u>Streaming</u> function of stream 1, 2 or 3.
Stream 3 Enable Multicast Video Port: Multicast Audio Port: Multicast Metadata Port:	5572 5574 5576	
Save		

The "Multicast" tabbed pane allows you to open Camera's UDP Multicast Streaming function.

By default, Camera's live stream belongs to RTSP Protocol. It means camera has to send an individual streaming for each client wish to see the videos. So the more the client number is, the larger the network bandwidth required and the bigger loading of the camera.

In other words, the camera can send just one streaming and each client can receive the streaming with Multicast Protocol.

Even with the client number increasing, the network bandwidth is still the same loading with one camera.



Save : After setups are completed, click "Save" button to apply the settings.

4. IP Filter

Network			
General	DDNS	Multicast	IP Filter
— IP Filter :	Settings ——		
Deny 1	ist (Deny IP R	ange)	_
		_	
Add	Remove	-	
(Note:The	e maximum numl	ber of deny IP is 20	D.)
Start IP	address:		(ex: 192.168.0.1)
End IP a	address:		(ex: 192.168.0.254)
Save			

The "IP Filter" tabbed pane could let you configure device IP list which is denied access to this camera.

Add

- □ <u>Start IP address</u>: Fill in the first address of IP range which you would like to deny its access to camera.
- □ <u>End IP address</u>: Fill in the last address of IP range which you would like to deny its access to camera.

% please note that total device numbers listed in the Deny list would be limited to 20.

Remove

Save

: Filling the IP range, then click "Save" button to implement the settings.

•: If you would like to re-open the access right of those listed device, select it from the list and then click "Remove" button to apply the settings.



# 5.2 Video

### 1. Stream

ream Video	Privacy Mask	
Video quality settings for s	tream 1	
Connection template:	Customized	~
Mode:	H264 💟	
Frame Size:	1920×1920 🗸	
Maximum Frame Rate:	15 FPS	
Streaming Mode:	CBR	
Bitrate:	6 Mbps 🔽	
Intra frame period:	15 💌	
Text Overlay		
Text Field:	CH1	
🖌 Time Stamp		
RTSP Port Access Name:	live1.sdp	
Video quality settings for s	tream 2	
Connection template:	Customized	~
Mode:	H264 🔽	
Frame Size:	1600×1200 🗸	
Maximum Frame Rate:	15 V FPS	
Streaming Mode:	CBR 🔽	
Bitrate:	2 Mbps 🔽	
Intra frame period:	15 🗸	
Text Overlay		
Text Field:	CH2	
✓ Time Stamp		
RTSP Port Access Name:	live2.sdp	
Video quality settings for s	tream 3	
Connection template:	Customized	¥
Mode:	H264 🔽	
Frame Size:	640×480 🔽	
Maximum Frame Rate:	15 V FPS	
Streaming Mode:	CBR	
Bitrate:	768 Kbps 🗸	
Intra frame period:	15 🗸	
Text Overlay		
Text Field:	CH3	
☑ Time Stamp		
RTSP Port Access Name:	live3.sdp	



The "Stream" tabbed pane (see above figure) provides the adjustments for the video quality of the Camera streaming function. The pane offers the following three modes of video quality setting:

- □ <u>Video quality settings for stream 1</u>: This is the primary quality setting for live view streaming.
- □ <u>Video quality settings for stream 2</u>: This is the secondary quality setting for live view streaming.
- □ <u>Video quality settings for stream 3(Recording Stream Quality)</u>: This setting is geared for Recording Stream saved in the SD Card use.

% If the "Video Event Alarm Setting by Video" is enabled, an alert message will display requiring you to disable the feature first before proceeding to change the Streaming settings. Otherwise, adjustments to video quality streaming settings **cannot** be accomplished.

The quality setting items on this pane are as follows:.

- <u>Connection template</u>: Four option modes are available; "Fast," "General,"
   "Low," and "Customized" modes.
- Mode: Three modes of encoding options are offered; "H264," "MJPEG," and "MPEG4."
- Frame Size: 3 types of streamed frame resolutions are available to select;
   "1920x1920," "1920x1080," and "1600x1200"
- Maximum Frame Rate: Available rate options are; 1, 2, 3, 5, 8, 10 & 15 frames per second (FPS).
- Streaming Mode: Two choices of streaming modes are offered; "VBR (variable bit rate)" and "CBR (constant bit rate)."
- <u>Bit Rate</u>: The options for streaming mode quality are expressed differently between VBR and CBR
  - VBR: Standard, High, Highest

- *CBR*: 64K bps, 128K bps, 184K bps, 200K bps, 256K bps, 384K bps, 512K bps, 768K bps, 1M bps, 1.5M bps, 2M bps, 3M bps, 4M bps, 5M bps, 6M bps, 8M bps, 10M bps and 12M bps.

Intra frame period: Available choices are; 5, 8, 10, 15, 20, 25, 30, 40, 50 & 60 frames per period. This function will let you choose how long distance between two I-Frames.

Lager value means longer distance between two I-Frames and this selection is suitable for the stable Network Bandwidth Environment; so we suggest the smaller value selection is proper to the worse Network Bandwidth Environment.



<u>Text Overlay</u>: When enabled, each streamed frame will be overlaid with the Camera ID (text field) and stamped with date/time (if enabled) as illustrated below.

Text Overlay

Text Field:

	CH1	
--	-----	--

🗹 Time Stamp

<u>RTSP Port Access Name</u>: When RTSP or VLC media-player is used, the port can be renamed with easy to remember pathname.

For example: the default RTSP Port Access Name is live1.sdp; it means your playback stream name would be "**RTSP://camera's IP address/live1.sdp**"

Save : After setups are completed, click "Save" button to apply the settings.

2. Video:





Stream Vide	o Privacy Mask			
Video Settings — Brightness:		0	0	(-128~127)
Saturation:	_	8	128	(0~255)
Contrast:	_	8	0	(-128~127)
Sharpness:	_	8	16	(0~31)
Color/Mono Mode	a: OAuto	O Color	O Mono	
Day / Night Th	reshold: 🧭		10	(5~100)
ICR:	<ul> <li>Auto</li> </ul>	On	Ooff	
Exposure Mode:	Auto	V		
Power Frequency	: 0 50 H	2 💿 60 Hz		
Pre-Noise Redu	uction			
¥2D Noise Redu	ction			
Normal Streng	th:		2 140	(0~168)
Source View Vide	o Orientation: Normal	V		
Wide Dynamic Ra	ange: ©Enab	e Oisable		
White Balance:	Auto		~	
Camera Mount:	Ceiling Wall Hi-FPS			

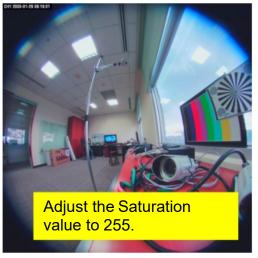


The "Video" tabbed pane lets you to perform live adjustments and improvement of the Camera captured video effect relative to the target environment.

□ <u>Brightness</u>: The luminance of the captured image apart from its hue or saturation. Try to assign the fit value according to the environment.



□ <u>Saturation</u>: The degree of intensity and purity of a specific color. Try to assign the fit value according to the environment.



<u>Contrast</u>: The brightness ratio of the lightest to the darkest part of the video image. Try to assign the fit value according to the environment.





Sharpness: Sharpness can be defined as edge contrast. So when we increase sharpness, we increase the contrast only along/near edges. Try to assign the fit value according to the environment.

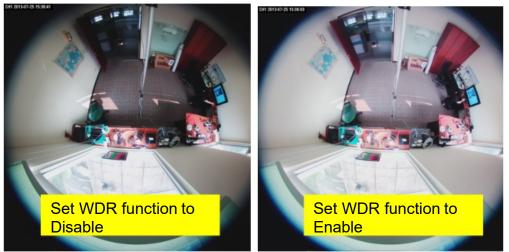


Day/Night Threshold: Set the illumination lux value (5 ~ 100) to auto-trigger the Camera into "day" or "night" mode relative to luminance of the area under surveillance. When the environment luminance becomes higher than the set lux value, the Camera will auto switch to "day" or "color" mode. Otherwise, it will remain at "night" or "mono" mode.





- □ <u>ICR</u>: Used for the camera to produce true color images, which avoid the color deviation for the capture images effectively.
- <u>Exposure Mode</u>: There are three options (Auto, Manual, and Clear Motion).
   When you select Manual mode, you can adjust Sutter speed.
- Pre-Noise Reduction & 2D Noise Reduction: Both of them are one kind of technology to provide clearer video with less noise under poor lighting conditions, making it easier to identify people or objects. Try to set them according to the stream quality.
- Wide Dynamic Range: Enable this function could let camera provide clear images even under backlighting.



White Balance: Because camera doesn't have ability to automatically adjust different color (temperature) to the environment, six templates are provided to let you choose for different light.



White Balance:

Auto
Incandescent Light
Cool White Fluorescent Light
SunLight
Cloudy
SunShade

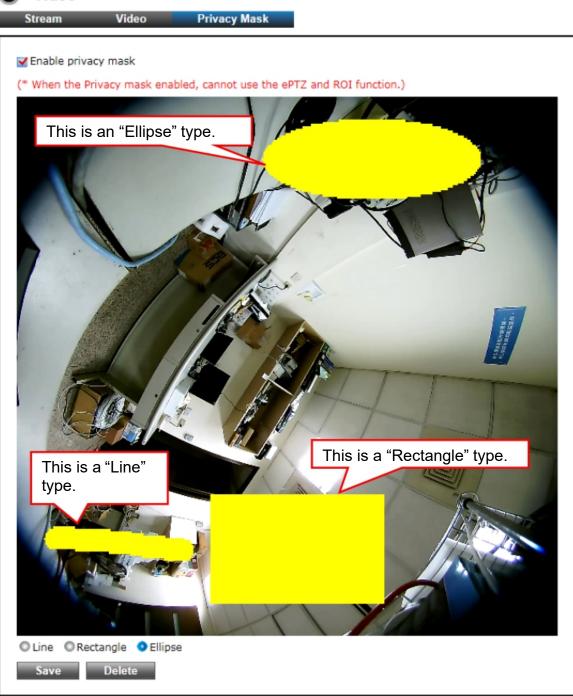
- □ <u>Camera Mount</u>: Three camera mounting types could be chose and will also bring different kinds of Display Mode.

value is 1600x1200@30fps.



#### 3. Privacy Mask:





The "Privacy Mask" tabbed pane allows you to mask or block private areas from surveillance for privacy reason.



To block a private area from surveillance, follow the procedure below:

- 1) Initially select the masking shape, e.g., "Line," "Rectangle," or "Ellipse" (see figure above) you wish to use as screen to block the area from surveillance.
- 2) Click and drag the mouse cursor to lay out a masking screen on the area you wish to block, and then release the mouse right button. Notice that the laid out screen turns into phantom block.
- 3) If the laid out screen needs correction, click "Delete" button and redo the masking screen lay out process.
- 4) Once the masking screen is acceptable, click the "Enable Privacy Mask" check box followed by clicking of the "Save" button. This will turn the laid out screen into solid block.

## 5.3 Audio

#### 1. System

Audio	
Audio	
Audio Settings ———	
Type:	G.711 u-Law 🔽
Mute	
Input of Listen Pattern	:
O Line In	<ul> <li>Mic In</li> </ul>
	Gain +20dB
Output of Talking Patte	rn :
<ul> <li>Speaker Out</li> </ul>	C Line Out
Volume:	<u> </u>
Save	

The" Audio" tabbed pane provides the following audio adjustments to your Camera microphone and speaker.



- <u>Type</u>: Select which kind of codec you would like to set as Audio-In signal output format.
- □ <u>Mute:</u> Enable or disable mute function of the Camera microphone.
- Input of Listen Pattern: Click to select where audio source comes from. Line In: Plug an audio source device into the Audio-In port of camera. And its playback volume could be adjusted by moving the slider to the left to decrease; and to the right to increase the volume.

*MIC In*: Connect a microphone into the Audio-In port of camera, be noted to use actively microphone (normally with power supplier on microphone) for this application. Enable or disable "Gain +20dB" function of the Camera microphone. Enable this function will amplify the signal from the microphone jack.

□ <u>Output of Talking Pattern</u>: Click to select where audio sound output to.

*Speaker Out:* Built-in speaker's volume could be adjusted by moving the slider to the left to decrease; and to the right to increase the volume.

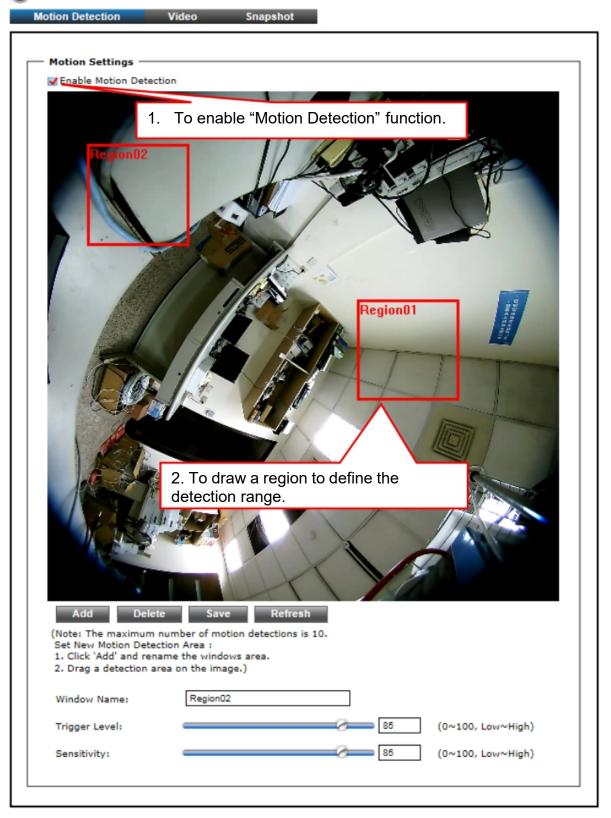
*Line Out:* Connect a loud speaker to the Audio-Out port of camera. This is for voice alerting and two-way audio. Be noted to use actively speaker (normally with power supplier on speaker) for this application.

## Save : After setups are completed, click "Save" button to apply the settings.



## 5.4 Event

- 1. Motion Detection
  - Event





From the "Motion" tabbed pane, you can define specific target areas within the scope of surveillance to focus the motion detection function.

Defining multiple motion detection areas:

- 1) Enable the "Enable Motion Detection" check box.
- 2) Click "Add" button and a default frame will pop-up on the screen.
- 3) Click and hold inside the frame to drag it to the location where you want to focus detection. Resize the frame by dragging its corners or borders.
- 4) To assign unique names to each framed location for easy identification, click on the frame and a "Window Name" text box with the default name of the selected frame, will appear at the bottom of the pane (see figure below). Enter a new name and click the "Save" button. Wait for a while for the change to take effect.
- 5) To delete a frame that is no longer needed but was previously saved, click on the unwanted frame and click "Delete" button. The frame will disappear after a while.
- 6) To delete multiple frames that are not yet saved, directly click the "Refresh" button instead of deleting them individually. The "Refresh" button will automatically clears all unsaved frames.
- . X Total defined motion detection areas cannot exceed 10 frames.

#### 2. Video

The Video tabbed pane sets the video recording trigger method to use when motion is detected by the Camera. The four methods available for selection are Period, Schedule, Motion, and GPIO Input, each of which can be set up with user scheduled recoding time and duration, as well as defining the video record file target destination.

<u>Period</u>: This method will trigger the Camera video surveillance/recording operation for a defined Time Lapse (in seconds) whenever motion is detected. The video record may be provided to host by E-mail/FTP, stored in the SD card, Remote Disk as selected or through all of them.



#### Event

Motion Detection	Video	Snapshot
Event Alarm Setting	s by Video –	
Video Clip		
Trigger by:	P	eriod 🔽
Video Clip Type:		
Post event recording	: 5	Seconds
Time Lapse:	1	0 🔽 Seconds
Target to:		
E-mail / FTP		
SD card		
Remote Disk		
Save		

Schedule: This method activates the Camera video surveillance/recording operation continuously when the defined days of the week and set time of the set days are met. Motion is ignored with this method. Each recording timespan is in accordance with the setting value of Post event recording (in seconds) and the video record is stored in the SD card, Remote Disk as selected or through both of them.

Event Alarm Setting	s by Video -		
✓Video Clip			
Trigger by:	S	chedule 🔽	
Day:			
🗹 Sun 🗹 MON	🗹 Tue 🗹 WED	🗹 Thu 🗹 FRI 🗹 Sat	
Time:			
Start 00 🗸 :	00 🗸 (hh:m	im) End 23 🗸 : 59 🗸 (hh:mm)	
Video Clip Type:			
Post event recording		0 Seconds 20	
Target to:	1	80	
SD card		40 00	
Remote Disk			
_			



Motion: This method will trigger the Camera video surveillance/recording operation whenever motion is detected within the defined days of the week and at the time of the set days.

Each recording time-span is in accordance with the total value of Pre-event recording and Post event recording (in seconds). And the video record may be provided to host by E-mail/FTP, stored in the SD card, Remote Disk as selected or through all of them.

Event	Video	Complet	
Notion Detection	Video	Snapshot	
	L. M. L.		
<ul> <li>Event Alarm Setting</li> <li>Video Clip</li> </ul>	igs by video –		
Trigger by:	Mc	otion 🔽 Link to Motion Settings	
Only during			
Day:			
	N 🗹 Tue 🗹 WED	🗹 Thu 🗹 FRI 🗹 Sat	
Time:	. 00 x (hhum	m) End 23 🗸 : 59 🗸 (hh:mm)	
	. 100 • (111:111		
Video Clip Type:			
Pre-event recordin	ig: 5	✓ Seconds	
Post event recordi	ng: 10	Seconds	
Target to:			
E-mail / FTP			
SD card			
Remote Disk			
Save			
Save			

<u>GPIO Input</u>: On the defined days of the week and at certain time of the set days, the Camera will trigger its GPIO Input Signal when its state changes. Each recording time-span is in accordance with the total value of Pre-event recording and Post event recording (in seconds). And the video record may be provided to host by E-mail/FTP, stored in the SD card, Remote Disk, activated GPIO Output Port or through all of them.



#### Event

Motion Detection	Video	Snapshot	1
Event Alarm Settin	ngs by Video –		
Video Clip			
Trigger by:	G	PIO Input 💙	
Trigger Pattern:		w to High	
<b></b> ✓Only during		gh to Low ate change	
Day:			
	N 🗹 Tue 🗹 WED	✓Thu ✓FRI ✓Sa	it
Time:	. 00 ¥ (bb:m	m) End 23 💙 :	59 V(bb:mm)
Video Clip Type:	. 100 . (		<u> </u>
	-		
Pre-event recordin	g: 5	<ul> <li>Seconds</li> </ul>	
Post event recording	ng: 5	<ul> <li>Seconds</li> </ul>	
Target to:			
E-mail / FTP			
SD card			
Remote Disk			
GPIO Output 1			
GPIO Output 2			
_			
C			
Save			

#### 3. Snapshot

The Snapshot tabbed pane sets the Camera to take snapshot images when motion is detected. The four methods available for selection are Always, Schedule, Motion, and GPIO Input, each of which can be set up with user scheduled recoding time and duration, as well as defining the video record file target destination.

<u>Always</u>: Under this method, the Camera automatically continuous to capture 6 snapshots of the area under surveillance at every 1 or 2 seconds interval. 3 previous snapshot frames are collected from the Camera buffer and 3 snapshot frames are captured live. The stream of accumulated snapshots may be sent to host by E-mail, FTP, stored in the SD card, Remote Disk as preferred or through all of them.



#### Event

Motion Detection	Video	Snapshot
Event Alarm Settin Snapshot Trigger by: Snapshot Type: 6 snapshot with Target to: E-mail FTP Remote Disk	Always	erval (3 frames before and 3 frames after motion frame) 6 snapshots are continuously collected at every 1 or 2 seconds interval.
Save		

Schedule: This method activates the Camera snapshot operation continuously when the defined days of the week and set time of the set days are met. The Camera will continuously capture 6 snapshots of the area under surveillance at every 1 or 2 seconds interval. 3 previous snapshot frames are collected from the Camera buffer and 3 snapshot frames are captured live. The stream of accumulated snapshots may be sent to host by E-mail, FTP, stored in the SD card, Remote Disk as preferred or through all of them.

# Event

Snapshot Trigger by:	Schedule
Day:	
🗹 Sun 🗹 M	ION 🗹 Tue 🗹 WED 🗹 Thu 🗹 FRI 🗹 Sat
Time: Start 00	▼: 00 ▼(hh:mm) End 23 ▼: 59 ▼(hh:mm)
Snapshot Type:	
6 snapshot with	1 second interval (3 frames before and 3 frames after motion frame)
Target to:	
🔲 E-mail	
FTP	
Remote Disk	



Motion: This method will trigger the Camera snapshot operation according to the set time interval (in seconds) whenever motion is detected within the defined days of the week and at the time of the set days. Single or 6 snapshots may be captured as defined. The stream of accumulated snapshots may be sent to host by E-mail, FTP, stored in the SD card, Remote Disk as preferred or through all of them.

Event					
Motion Detection	on Video	Snapshot			
✓ Snapshot Trigger by: ✓ Only durin Day:	Motion	Link to Motic	n Settings		
Start Snapshot 1 Interval:	3	m) End 23 : 5			
<ul> <li>Single sna</li> <li>6 snapsho</li> <li>Target to:</li> </ul>	apshot ot with IV second into	erval (3 frames befor	e and 3 frames after	motion frame)	
E-mail	User	could select	"Single" or "6	ð snapshot…"	
SD card	isk				
Save					

□ <u>GPIO</u>: On the defined days of the week and at certain time of the set days, the Camera will trigger its GPIO Input Signal according to the set time interval (in seconds) when its state changes. Single or 6 snapshots may be captured at a time as defined.



Motion Detection       Video       Snapshot         Event Alarm Settings by Snapshot       GPIO Input ♥         Trigger by:       GPIO Input ♥         Trigger Pattern:       Low to High         High to Low       State change         Day:       Sun ♥ MON ♥ Tue ♥ WED ♥ Thu ♥ FRI ♥ Sat         Time:       State change         State 100♥:       00♥ (th:mm) End 23♥ : 59♥ (th:mm)         Snapshot Type:       Interval:         Interval:       3         ● 6 snapshot with 1♥ second interval (3 frames before and 3 frames after motion frame)         Target to:         ■ FTP         SD card         ■ Remote Disk         @ GPIO Output 1         ■ GPIO Output 2	Event	
<pre>Snapshot Trigger by: GPIO Input ▼ Trigger Pattern: Low to High High to Low State change Day:</pre>	Motion Detection	Video Snapshot
<pre>Snapshot Trigger by: GPIO Input ▼ Trigger Pattern: Low to High High to Low State change Day:</pre>		
Trigger Pattern: Interval: 3 ( minimum is 3 seconds ) Single snapshot Target to: E-mail FTP SD card Remote Disk GOID Output 1		gs by Snapshot —
High to Low   State change   Day:   Sun MON Tue WED Thu FRI Sat   Time:   Start 00 (hh:mm) End 23 : 59 (hh:mm)   Snapshot Type: Interval:   Interval:   3   (minimum is 3 seconds )   Single snapshot 6 snapshot with 1 second interval (3 frames before and 3 frames after motion frame) Target to: E-mail FTP SD card Remote Disk GPIO Output 1	Trigger by:	GPIO Input
<pre>✓Only during State change Day:</pre>	Trigger Pattern:	
<ul> <li>Sun MON VIUE VED VIU VFRI Sat Time: Start 00 V: 00 V(hh:mm) End 23 V: 59 V(hh:mm)</li> <li>Snapshot Type: Interval: 3 (minimum is 3 seconds )</li> <li>Single snapshot</li> <li>6 snapshot with 1 V second interval (3 frames before and 3 frames after motion frame)</li> <li>Target to: E-mail</li> <li>FTP</li> <li>SD card</li> <li>Remote Disk</li> <li>GPIO Output 1</li> </ul>	<b>⊻</b> Only during	
Time: Start 00 (hh:mm) End 23 (59 (hh:mm) Snapshot Type: Interval: 3 (minimum is 3 seconds ) Single snapshot 6 snapshot with 1 second interval (3 frames before and 3 frames after motion frame) Target to: E-mail FTP SD card Remote Disk GPIO Output 1	Day:	
Start 00  : 00    Snapshot Type: Interval:   3 (minimum is 3 seconds )   Single snapshot   6 snapshot with 1 second interval (3 frames before and 3 frames after motion frame)   Target to:   E-mail   FTP   SD card   Remote Disk   GPIO Output 1		🗹 Tue 🗹 WED 🗹 Thu 🗹 FRI 🗹 Sat
Snapshot Type:   Interval:   3   Interval:   Single snapshot   6 snapshot with 1 second interval (3 frames before and 3 frames after motion frame)   Target to:   E-mail   FTP   SD card   Remote Disk   GPIO Output 1		· 00 V(hhimm) End 22 V · 50 V(hhimm)
Interval: 3 (minimum is 3 seconds ) Single snapshot 6 snapshot with 1 second interval (3 frames before and 3 frames after motion frame) Target to: E-mail FTP SD card Remote Disk GPIO Output 1		
<ul> <li>Single snapshot</li> <li>6 snapshot with 1 second interval (3 frames before and 3 frames after motion frame)</li> <li>Target to:</li> <li>E-mail</li> <li>FTP</li> <li>SD card</li> <li>Remote Disk</li> <li>GPIO Output 1</li> </ul>		
<ul> <li>6 snapshot with I second interval (3 frames before and 3 frames after motion frame)</li> <li>Target to:</li> <li>E-mail</li> <li>FTP</li> <li>SD card</li> <li>Remote Disk</li> <li>GPIO Output 1</li> </ul>	Interval:	3 ( minimum is 3 seconds )
Target to: E-mail FTP SD card Remote Disk GPIO Output 1	Single snapshot	
E-mail FTP SD card Remote Disk GPIO Output 1	6 snapshot with 1	second interval (3 frames before and 3 frames after motion frame)
FTP SD card Remote Disk GPIO Output 1	Target to:	
GPIO Output 1	🔚 E-mail	
GPIO Output 1	FTP	
GPIO Output 1	SD card	
	Remote Disk	
GPIO Output 2	GPIO Output 1	
	GPIO Output 2	
Save		

The stream of accumulated snapshots may be sent to host through E-mail, FTP, stored in the SD card, Remote Disk, activated GPIO Output Port; per selection or through all of them. When selected, the setup dialog for these methods will display is illustrated in the following figure.



				_	_	
-	-		-		+	
		ги	е	L .	LO	-
	-		-			

✓E-mail	
Recipient E-mail Address:	rcpt@mail.com (ex: rcpt@mail.com )
SMTP E-mail Server:	192.168.1.1 (ex: mail.examples.com or 192.168.1.1 )
Port:	25 (065535)
User Name:	guest
Password:	•••••
Sender E-mail Address:	from@mail.com ) (ex: from@mail.com )
Use SSL-TLS:	None SSL-TLS
Test E-mail	STARTTLS
✓ FTP	
FTP Server:	192.168.1.1 (ex: ftp.domain.com or 192.168.1.1)
FTP Server Port:	21 (065535)
User Name:	guest
Password:	•••••
Path:	\ftp\upload (ex: \ftp\upload )
Filename Prefix:	event (ex: event )
Test FTP	

SD card

☆ As for the settings of SMTP Service, kindly please contact with your E-mail service provider ∘ After you confirm all parameters are correct and working properly, you may enter them into the text area manually.

X As for the settings of FTP Service, kindly please contact with your FTP service provider • While all parameters filled in Windows FTP Transferring Utility are correct and working properly under your Laptop or other PC, you may enter them into the text area manually.



### 5.5 Storage

1. Storage

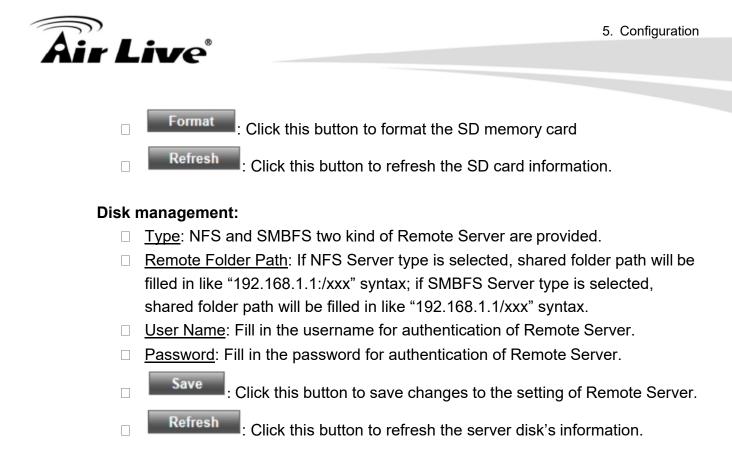
	Storage
--	---------

Storage Playback	1			
SD card management —				
SD card status: OK				
Total size: 307	733648 KBytes	Free size:	22325440 KBytes	
Used size: 84	08208 KBytes	Use(%):	27 %	
Recording status: Not Rec	ording		Enable check box to allow	
SD eard control:	< <		auto-overwrite of earlier	
🗹 Enable cyclic storage	)		files in order to maintain	
Keep Free Space: 64	МВ	( 30~500 MB )	the defined "Keep Free	
			Space" memory size.	
Save Format	Refresh			
			check box to start	
Disk management ———		Remote	Disk Recording.	
Status:	off			
Total size:	0 KBytes	Free size:	0 KBytes	
Used size:	0 KBytes	Use(%):	0 %	
Enabled				
Type:	NFS	<b>~</b>		
Remote Folder Path:				
	(ex: 192	.168.1.1:/xxx )		
User Name:				
Password:				
Save Refresh				

Clicking the "Storage" button will display the following tabbed panes to provide information on existing local storage, such as disk size info, type, and status. If recording is in progress when clicking the "Storage" button, a warning message will occur.

#### SD card management:

Save : Click this button to save changes to the SD card control setting.



#### 2. Playback:

Type:	and viewing the		<b>1)</b> Select type of files to playback.
Trigger tin			2) Search for the files to playback by
From:	Date (yyyy-mi 2014-10-20 2014-10-20		defining the files recording date range.
			3) Click <b>Search</b> button and the files
Search			recorded within the date range will displate
- Search re	sults —		below.
😂 Тор			
L 🔂 201	141020		<ol><li>Select the file to playback and enable the</li></ol>
L 😑	2345		corresponding check box. The dialog strip
	Tuna	Trigger time	below will then pops up.
	Туре	20141020234417 avi	
G	H	20141020234317.avi	
~		20141020234217	
	H	20141020234117.avi	
	H	20141020234017.avi	E) Olieking Onen hutten will
	H	20141020233917.avi	5) Clicking <b>Open</b> button will
	H	20141020233817.avi	playback the file. <b>Save</b> button
	8	20141020233717.avi	will save file to a designated
	H	20141020233617.avi	folder.
	ii ii	20141020233517.avi	
	1/2 > >1	Show 10 🔽 entries	



## 5.6 System

#### 1. Information

nformation	Time	Account	Maintenance	System Log
- System Infor	mation ——			
Model Name:		FE-5010	DM	
System Time:		2014/10	0/22 16:46:17	
Firmware Vers	ion:	A1.0.0_	1014	
MAC Address:		00:04:2	29:42:41:01	
ActiveX contro	l version:	0.0.8.1		
Device ID (for	DIPS):	042827	5859 Test	
			ted	
- Wired networ Status:	K	Connec	ted	
Mode:		DHCP		
IP Address:		192.168	3.1.104	
		255.255	5 255 0	
Subnet Mask:		200.20	5.255.0	
Subnet Mask: Gateway:		192.168		
			8.1.254	
Gateway:	5:	192.168	3.1.254 3.1.254	
Gateway: Primary DNS:	S:	192.168 192.168	3.1.254 3.1.254	
Gateway: Primary DNS:		192.168 192.168	3.1.254 3.1.254	

The "Information" tabbed pane provides the existing system status of the Camera which includes Model Name, System Time, Firmware Version, MAC Address, ActiveX Control Version, Wired Network and DDNS Server Status.



#### 2. Time

ormation	Time	Acco	unt	Maintenance	System Log	
System Time						
2014/10/22 1	16:56:21					
System Time	settings —					
Time Zone:						
GMT+08:00 E	Beijing, Chongo	ling, Hong	Kong, Kuala	a Lumpur, Singapore	e, Taipei, Krasnoyarsk	
OAutomatic						
NTP server:	pool.ntp.org					
©Keep currer	nt date and time	е				
Set Manuall <sup>®</sup>	y					
<ul> <li>Synchror</li> </ul>	nize with compu	uter time				
	)14/10/22 Tir		6:24			
O Assign va						
🗹 Enable Day						
Offset:		+1 hrs				
		Month	Week	Day of week	Hour	Minute
Start time		8 🗸	1 🗸	sunday 🔽		0 🗸
End time		10 🗸	1 🗸	sunday 🗸	0 🗸	0 🗸

The "Time" tabbed pane is where you set up the clock of your Camera to synchronize with your local time.

- System Time: The Network Camera current date and time is applied and displayed here based on the setup status of the System Time Settings as detailed below.
- □ <u>Time Zone</u>: Select the applicable Time Zone of your city in reference to Greenwich Mean Time.
- <u>Automatic</u>: Select this item if you want to automatically synchronize the Camera clock with your manually entered Network Time Protocol (NTP) Server.

# **Air Live**

- Keep current date and time setting: Select this option in lieu of automatic synchronization if the Camera is not connected to NTP Server and uses its own embedded clock.
- □ <u>Set manually</u>:

Save

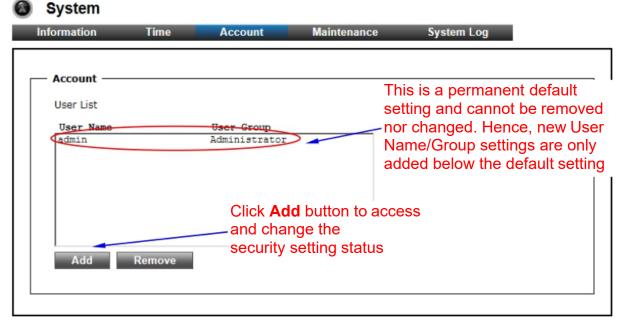
*Synchronize with the computer Time*: Select this option to manually synchronize the Network Camera clock (date and time) with that of the local host computer.

Assign value: Select this option to enter the date and time manually.

Enable Daylight Saving: Select this option only when applicable at your location. Two setup settings; the "Start time" and "End time" are needed to implement the feature.

: After setups are completed, click "Save" button to apply the settings.

#### 3. Account



#### .

The "Account" tabbed pane allows you to add new Camera User Name and change Password and the surveillance status or User Group. Click the "Add" button to access the security setup dialog (shown below).



User Setup	
User Name:	admin
Password:	test Show Password
Confirm Password:	test
User Group:	<ul> <li>Administrator</li> </ul>
	Operator
	© Viewer
Note:	
1. A user name and passw	ord must contain at least one character.
2. Max 14 characters are a	llowed in user names.
3. The first character in us	er name must be A-Z or a-z.
4. Only A-Z, a-z and 0-9 a	re allowed in the user name and password.
5. Max eight characters an	e allowed in the password.
6. The maximum number of	of users is 20.
7. The 'admin' user is defa	ult user and cannot be deleted.
Save	

- <u>User Name</u>: Enter the new user name to be added into the list (see Note 4 of dialog for proper entry).
- □ <u>Password</u>: Enter the new password (see Note 4 of dialog for proper entry).
- Confirm password: Enter the password again for authentication (encoded display).
- □ <u>Show Password</u>: Displays the decoded password when check box is enabled.
- <u>User Group</u>: Three group options are available, namely:
   *Administrator:* User is allowed to change Camera settings and perform all Camera functions.

*Operator:* User is allowed to login "Live View" Webpage and perform all functions within this page. Except changing Video and Audio settings of Camera live stream, other adjustments of Camera parameter are prohibited. *Viewer:* User is only allowed to login "Live View" Webpage and perform all functions within this page. Changing Camera settings is prohibited.

Save : After setups are completed, click "Save" button to apply the settings.



#### 4. Maintenance

	Time	Account	Maintenance	System Log
- Maintain Ser	ver —			
Reboot		Factory Defau	ult	
		Dowr		latest firmware —
• Upgrade Firn Model Name:	nware/	Click	here to browse an FE-501DM	
Firmware Versi	ion:		A1.0.0_10	14
Select firmwar	e file:		Browse	Upgrade
· Upload Own Right click the	_	n ' Logo Image'	and then select Save	As to save image in the F
		n ' Logo Image'	and then select Save	As to save image in the F
Select image fi	lie to upload:		Browse	Upload
Backup —				
Backup —	ieters and user-	defined scripts t	o a backup file. Ba	ckup
Backup Save all param				
Backup Save all param	ng			
Backup Save all param Upload Settin Use a saved ba	ng	urn the unit to a		

The "Maintenance" tabbed pane allows you to upgrade the firmware with the latest version and to restore the Network Camera settings to factory default.

- Reboot System: Clicking the "Reboot" button allows you to manually reboot the Network Camera.
- Factory Default: Clicking the "Factory Default" button will restore the Network Camera to its factory default settings status. Before Camera system proceed to restore step, there'll be a dialog window popped and then ask if you would like to keep "Network setting" parameters. Besides, all configured data in the "System Time", "Account" and "Maintenance" tab will be remained current.



- □ <u>Upload Own Logo File</u>: Prepare and save the Logo Image file in the PC, Then follow the below steps to replace Web UI Logo with it.
  - 1) Click the "Browse" button to access and select Logo Image file from PC.
  - 2) Click the "Upload" button to process Logo replacing. When upload process is completed, it's strongly recommended to close and restart Web Browser.
- Upgrade Firmware: Download the latest firmware file from the website by executing the following steps:
  - 1) Click the "Browse" button to access and select the appropriate firmware file from its folder.
  - ※ Please specify the correct firmware version mapped with your camera to upgrade, or there will be danger to damage camera system.
  - 2) Click the "Upgrade" button. The Network Camera will then start to upgrade the existing firmware. When upgrade is completed, the Camera will reboot automatically.
- □ <u>Backup</u>: Clicking the "Backup" button allows you to manually save Camera's parameters and user settings into a "config\_backup.tar.gz" file.
- Upload Setting: This function allows user to restore Camera's backup setting by executing the below steps:
  - 1) Click the "Browse" button to access and select saved "config\_backup.tar.gz" file from the PC.
  - 2) Click the "Restore" button to process Camera configuration restore.

#### 5. System Log

Information	Time	Account	Maintenance	System Log
— System Log				
		Logs		
				e will be another
— Remote Log	Settings —	7		e opening and the
Enable rem			displaying Ca	amera's basic log.
Log server IP	address:			
Server Port:			(065535)	
Status:		discon	nected	



The "System Log" tabbed pane allows you to see Camera's basic log on another browser page or Remote Log Server.

Remote Log Setting: Check "Enable remote log" selection first; and then manual entering IP address & port setting of Remote Log Server.

Save : After setups are completed, click "Save" button to apply the settings.