Network Camera Web3.0 Operation Manual

Model No. K-EW114L03AE K-EW114L06AE K-EF134L02AE K-EF134L03AE K-EF134L06AE

Version 1.0.0

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1 Network Connection

These series network camera products support the Web access and management via PC. Web includes several modules: monitor channel preview, system configuration, alarm and etc. Please follow the steps listed below for network connection.

- Make sure the network camera has connected to the network properly.
- Network camera IP address and PC IP address shall be in the same network segment. If there is router, please set the corresponding gateway and subnet mask.
- Use order ping ***.***.***(* network camera address) to check connection is OK or not.

2 Main Interface Introduction

2.1 Log in

Open IE and input network camera address in the address bar.

For example, if your camera IP is 192.168.0.10, then please input http:// 192.168.0.10 in IE address bar. See Figure 2-1.

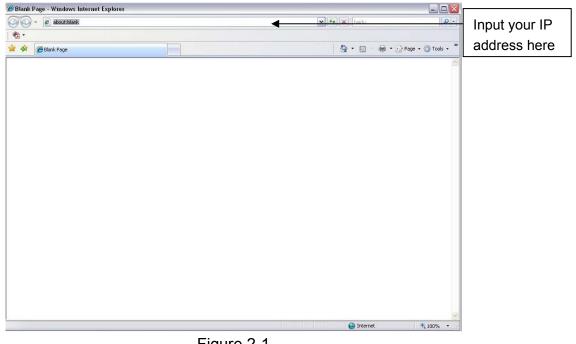


Figure 2-1

The login interface is shown as below. See Figure 2-2.

Please input your user name and password.

Default ID is admin and PWD is 12345 (if connects with ONVIF protocol, Default ID:admin and PWD:admin).

Note: For security reasons, please modify your password after you first login.

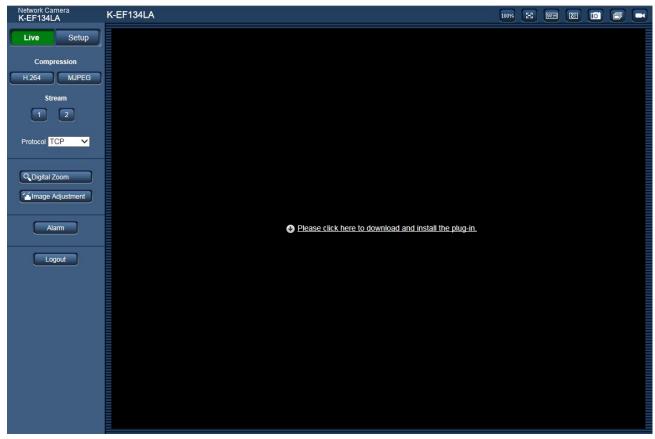
LOG IN
ID: PWD: Login Cancel

Figure 2-2

If it is your first time to login in, you may see the updating password interface shown as in Figure 2-3. Please enter new password in "New Password" and "Confirm Password" in order to enhance the security.

First login, suggest updating password.				
New Password				
New 1 assword				
Confirm Password				
Don't show me again				
Ok	Cancel			

Figure 2-3



If it is your first time to login in, you may see the interface shown as in Figure 2-4

Figure 2-4

Click on "Please click here to download and install the plug-in". The system pops up warning information to ask you whether run or save this plug-in. See Figure 2-5.

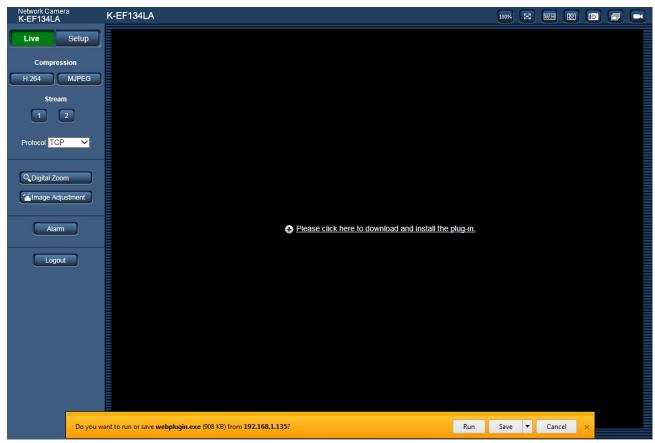


Figure 2-5

You must either run or save the file to local and install it. Follow the following steps. See Figure 2-6. Note:

The displayed screens are different by the security settings on the PC.

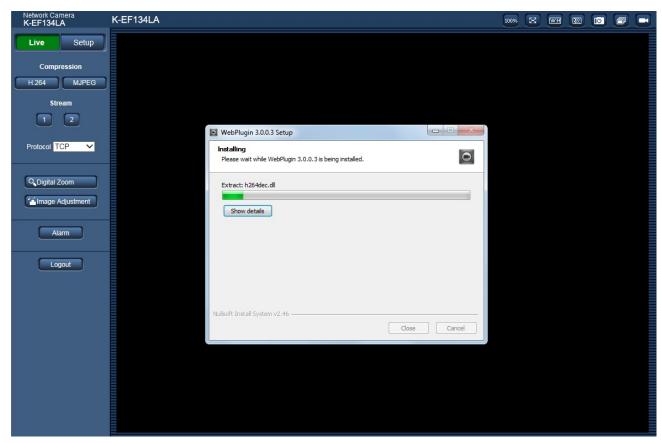


Figure 2-6

When plug-in installation completes, the installation page closes automatically. The web-end will refresh automatically, and then you can view video captured by the camera.

2.2 Live Interface

After you logged in, you can see the live monitor window. See Figure 2-7.

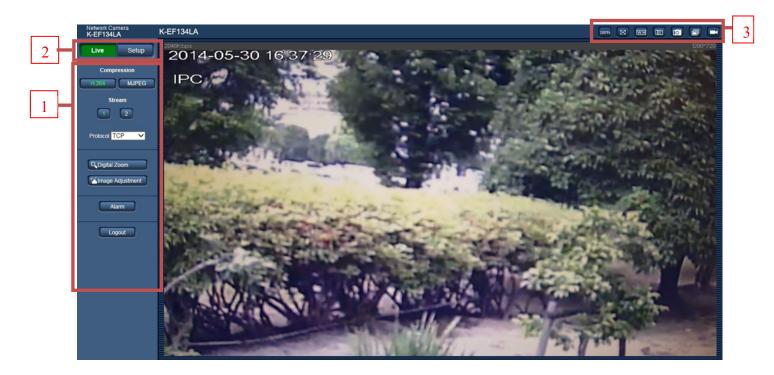


Figure 2-7

There are three sections:

- Section 1: Encode setup bar
- Section 2: System menu
- Section 3: Window function option bar

2.3 Encode Setup

The encode setup interface is shown as in Figure 2-8.

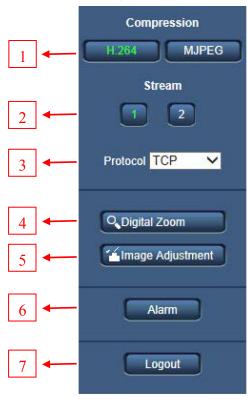


Figure 2-8

SN	Parameter	Function	
1	Compression	The compression under distribution is displayed by Stream change.	
2	Stream	You can switch Stream(1) and (2)	
3	Protocol	You can select stream media protocol from the dropdown list. There are three options: TCP/UDP/Multicast	
4	Digital Zoom	 When the video is in the original status, click it you can select any zone to zoom in. In the non-original status, you can drag the zoom-in zone in specified range. Right click mouse to restore previous status. Click it; you can use the middle button of the mouse to zoom in/out the video size. 	
5	Image Adjustment	You can adjust image quality.	
6	Alarm	It moves to an alarm setting screen.	
7 Logout Click Logout button, system goes back to log in interf		Click Logout button, system goes back to log in interface.	

2.3.1 Image Adjustment

Click Image Adjustment button to open picture setup interface. See Figure 2-9. This interface is displayed under a display of Image Adjustment.

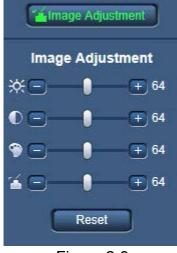


Figure 2-9

Parameter		Function		
Video setup	Ϋ́	It is to adjust monitor video brightness.	Note: • All the operations here apply	
	€	It is to adjust monitor video contrast.	 to WEB end only. Please go to Setup -> Image -> Image adjust to adjust 	
	۲	It is to adjust monitor video hue.	corresponding items.	
	1	It is to adjust monitor video saturation.		
	Reset	Restore brightness, contrast saturation and hue to system default setup.		

2.4 System Menu

System menu is click Setup as in Figure 2-10.



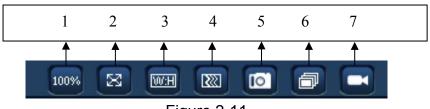
Please refer to chapter 3.1 Basic, chapter 3.2 Image, chapter 3.3 Network, chapter 3.4 Event, chapter 3.5 Storage, chapter 3.6 System, and chapter 3.7 Information for detailed information.

Live	Setup
Basic	•
Image	*
Network	٨
Event	*
Storage	~
System	*
Information	

Figure 2-10

2.5 Video Window Function Option

The interface is shown as below. See Figure 2-11.





	_	
SN	Parameter	Function
1	Original Size	Click this button to go to original size. It is to display the actual size of the video stream. It depends on the resolution of the bit stream.
2	Full Screen	Click it to go to full-screen mode. Double click the mouse or click the Esc button to exit the full screen.
3	Width and Height ratio	Click it to restore original ratio or suitable window.
4	Fluency Adjustment	There are three levels of fluency for you to select. The default is real-time with minimum delay. You may select fluent mode in case connection is slow.
5	Snapshot	You can snapshot important video by clicking on this button. All images are memorized in system folder: \ picture download (default). You can go to Setup -> Image -> JPEG/H.264 -> Path to modify the local record save path.
6	Triple Snapshot	Click it, system can snap at 1 fps. All images are memorized in system storage folder.
7	Record	For manual record. All records are memorized in Setup -> Image -> JPEG/H.264 -> Path.

3 Setup

3.1 Basic

The basic interface includes the local host setup and the date/time setup. The date and time interface is shown as in Figure 3-1.

Live Setup	Basic	
Basic •	Camera title	1C007BAYAZ00060
Basic	Date/time	2016 - 03 - 09 11 : 46 : 17 Sync PC
Image 🔺	Time display format	24-Hour-based System V
Network 🔺	Data/Time display format	Year-Month-Day V
Event 🔺	Summer time (daylight saving)	Summer time type O Date O Week
Storage	Time zone	GMT+08:00 V
System 🔺	Start time & date	Jan V 00 : 00 : 00
Information •	End time & date	Jan V 2 V 00 : 00 : 00
	Camera title/Time on screen	Overlay>>
	Language	English
	Video Standard	PAL V
	NTP Setup	
	NTP Server	clock.isc.org
	NTP Port	123
	Update Period	10 Minute (0~30)
		Default Refresh Save

Figure 3-1

Parameter	Function	
Camera title	It is to set device name.	
Date/time	Set date and time. Click "Sync PC" to set PC time to camera.	
Time display format	There are two options: 24-H and 12-H.	
Date/Time display format	Here you can select date format from the dropdown list.	
Summer time(daylight saving)	Here you can set daylight saving time begin time and end time. You can set according to the date format or according to the week format.	

Time zone	The time zone of the device. You can set "Start time & date" and "End time & date".	
Camera title/Time on screen	Link <u>Video Overlay</u> (Image->JPEG/H.264->Overlay)	
Language	You can select the language from the dropdown list. The language is only English.	
Video Standard	This is to display video standard such as NTSC/PAL.	
NTP Setup	You can check the box to enable NTP function.	
NTP Server	You can set the time server address.	
NTP Port	It is to set the time server port.	
Update period	It is to set the sync periods between the device and the time server.	

3.2 Image

3.2.1 JPEG/H.264

3.2.1.1 JPEG/H.264

The video bit stream interface is shown as below. See Figure 3-2.

Live Setup	JPEG/H.264 Snapshot Overlay	ROI Path
Basic	Stream(1)	Stream(2)
Image -	Code-Stream Type General	✓ Enable
JPEG/H.264	Compression H.264H V	Code-Stream Type General
Image adjust	Image capture size 720P (1280*720)	Compression H.264H V
Network 🔺	Frame rate(FPS)	Image capture size D1 (704*576)
Event •	Transmission Priority CBR	Frame rate(FPS) 25
Storage •	Reference Bit Rate 448-6144Kb/S	Transmission Priority CBR
System •	Bit Rate 2048	Reference Bit Rate 224-4096Kb/S
Information •	Refresh interval 50 (25~150)fps	Bit Rate 1024 V
	Watermark Settings	Refresh interval 50 (25~150)fps
	Watermark Character DigitalCCTV	
	Default Refresh Save	

Figure 3-2

Parameter		Function
Stream(1)	Code-Stream Type	It includes only General stream. System supports active control frame function (ACF). It allows you to record in different frame rates.
	Compression	 There are four options: H.264 (main profile standard), H.264H (high profile standard), H.264B (baseline standard) encode and MJPEG encode. H.264 : Main Profile encode mode. H.264H : High Profile encode mode. H.264B : Baseline Profile encode mode MJPEG : In this encode mode, the video needs larger bit stream to guarantee the video definition. You can use the max bit stream value in the recommend bit to get the better video output effect.
	Image capture size	There are multiple resolutions. You can select from the dropdown list.
		For each resolution, the recommended bit stream value is different.

Parameter		Function			
	Frame rate(FPS)	NTSC: 1-30fps. PAL: 1-25fps The frame rate may vary due to different resolutions.			
	Transmission Priority	There are two options: VBR and CBR. Please note, you can set video quality in VBR mode.			
	Reference Bit Rate	Reference bit rate value according to the resolution and frame rate you have set.			
	Bit Rate	 In VBR, the bit rate here is the max value. In CBR, it is a fixed value. See reference bit stream for recommended value. 			
	Refresh interval	Here you can set the P frame amount between two I frames. The value ranges from 1 to 150. Default value is 50.			
		Recommended value is frame rate.			
	Watermark Settings / Watermark Character	This function allows you to verify the video is tampered or not. Here you can select watermark bit stream, watermark mode and watermark character. Default character is DigitalCCTV. The max length is 85-digit. The character can only include number, character and underline.			
Stream(2)	Enable	Please check the box here to enable extra stream function. This function is enabled by default.			
	Code-Stream Type	General bit stream.			
	Compression	 There are four options: H.264 (main profile standard, H.264H (high profile standard), H.264B (baseline standard) encode and MJPEG encode. The H.264, H.264H and H.264B both are H264 bit stream. H.264 is the Main Profile encode and the H.264B is the Baseline Profile encode mode. H.264B is for Blackberry cell phone to realize the monitor. You need to enable the sub stream function in your camera and set the resolution as CIF. Then you can monitor via the Blackberry cell phone. MJPEG: In this encode mode, the video needs to large bit stream to guarantee the video definition. You can use the max bit stream value in the recommend bit to get the better video output effect. 			

Parameter		Function		
	Image capture size	There are multiple resolutions. You can select from the dropdown list.		
		For each resolution, the recommended bit stream value is different.		
	Frame	NTSC: 1-30fps. PAL: 1-25fps		
	rate(FPS)	The frame rate may vary due to different resolutions.		
	Transmission Priority	There are two options: VBR and CBR. Please note, you can set video quality in VBR mode.		
	Reference Bit Rate	Reference bit rate value according to the resolution and frame rate you have set.		
	Bit Rate	 In CBR, the bit rate here is the max value. In dynamic video, system needs to low frame rate or video quality to guarantee the value. The value is null in VBR mode. Please refer to recommend bit rate for the detailed information. 		
	Refresh interval	Here you can set the P frame amount between two I frames. The value ranges from 1 to 150. Default value is 50.		
		Recommended value is frame rate.		

3.2.1.2 Snapshot

The snapshot interface is shown as in Figure 3-3.

Live Setup	JPEG/H.264	Snapshot	Ť	Overlay	T	ROI	Ť	Path	
Basic 🔺	Snapshot Type	General	~						
Image 🔹	Image capture size	720P (1280*720)							
JPEG/H.264	Quality	5	~						
Image adjust	Interval	15	~						
Network •		Default	Refresh	Save					
Event •									
Storage 🔺									
System 🔺									
Information									

Figure 3-3

Please refer to the following sheet for detailed information.

Parameter	Function
Snapshot Type	There are two modes: general (schedule) and Event (activation).
Image capture size	It is the same with the resolution of the stream(1).
Quality	It is to set the image quality. There are six levels.
Interval	It is to set snapshot frequency. The value ranges from 1s to 7s.

3.2.1.3 Video Overlay

.

The video overlay interface is shown as in Figure 3-4, Figure 3-5, Figure 3-6 and Figure 3-7.

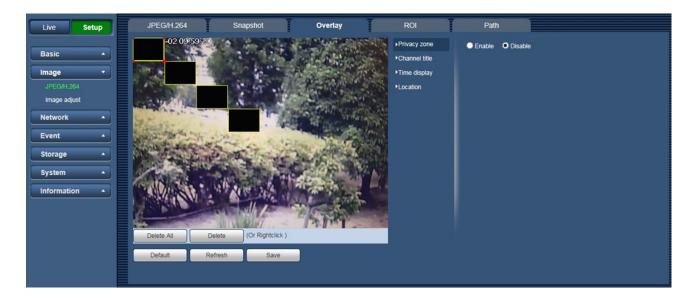


Figure 3-4

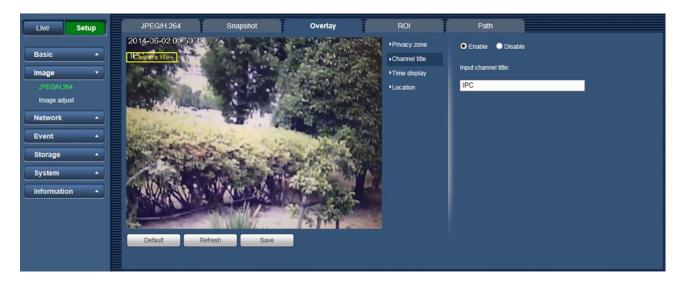


Figure 3-5

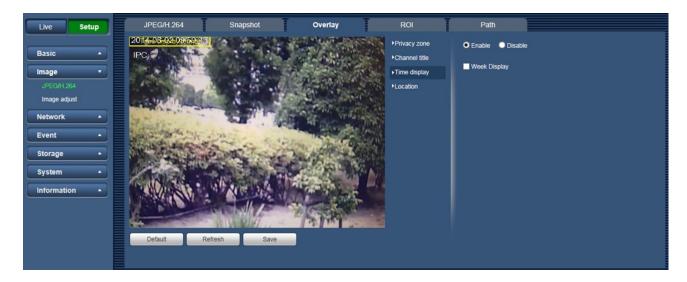


Figure 3-6

Basic Index Basic Income table Privacy zone Channel title Channel title Privacy zone Channel title Privacy zone Privacy zone Priv
Default Refresh Save

Figure 3-7

Parameter	Function
Privacy zone	 Here you can privacy mask the specified video in the monitor video. System max supports 4 privacy mask zones.
	See Figure 3-4
Channel title	 You can enable this function so that system overlays channel information in video window. You can use the mouse to drag the channel tile position. See Figure 3-5
Time display	 You can enable this function so that system overlays time information in video window. You can use the mouse to drag the time tile position. See Figure 3-6
Location	 You can enable this function so that system overlays location information in video window. To change text alignment, you can select by dropdown list. See Figure 3-7

3.2.1.4 ROI

The ROI function can change the data size of images before sending them by performing operations such as increasing the resolution of important monitoring areas in the image and reducing the resolution of other areas.

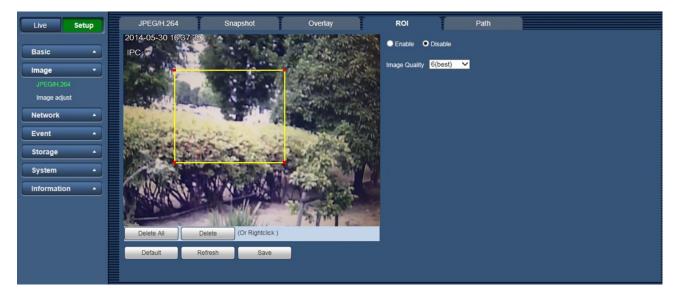


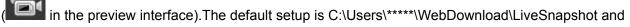
Figure 3-8

Parameters	Note	
Enable	Check "Enable", then it will display the ROI in the video monitoring window; Check "Disable", then it won't display.	
Image Quality	 Set the image quality of ROI, ranging from 1~6(best), default is 6(best). Able to set area block, max 4 areas. 	

3.2.1.5 Path

The storage path interface is shown as in Figure 3-.

Here you can set snap image saved path (in the preview interface) and the record storage path



C:\Users****\WebDownload\LiveRecord. ***** is user name of PC.

Please click the Save button to save current setup.



Figure 3-9

3.2.2 Image adjust

Here you can view device property information. Slight differences may be found due to different network camera series. The setups become valid immediately after you set. See Figure 3-10.

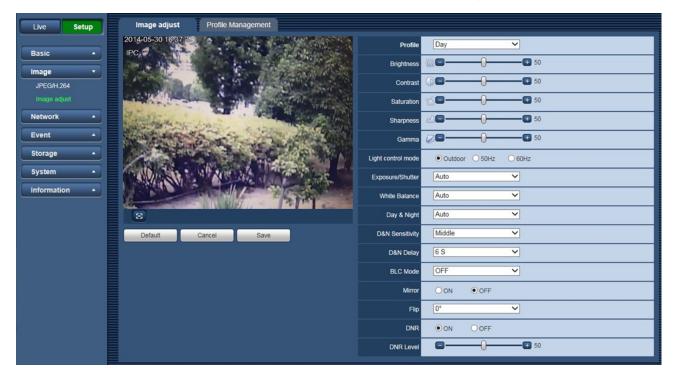


Figure 3-10

Parameter	Function
Profile	You may select normal, day and night mode.
Brightness	It is to adjust monitor window bright. You can adjust this value if the video is too dark or too bright. The larger the number, the bright the video is. When you input the value here, the bright section and the dark section of the video will be adjusted accordingly. Please note the video may become hazy if the value is too high. The value ranges from 0 to 100. The recommended value ranges from 40 to 60. The default value is 50.

Contrast	It is to adjust monitor window contrast. The larger the number, the higher the contrast is. You can use this function when the whole video bright is OK but the contrast is not proper. Please note the video may become hazy if the value is too low. If this value is too high, the dark section may lack brightness while the bright section may over exposure. The value ranges from 0 to 100. The recommended value ranges from 40 to 60. The default value is 50.	
Saturation	It is to adjust monitor window saturation. The larger the number, the strong the color is. This value has no effect on the general brightness of the whole video. The video color may become too strong if the value is too high. For the grey part of the video, the distortion may occur if the white balance is not accurate. Please note the video may not be attractive if the value is too low. The value ranges from 0 to 100. The recommended value ranges from 40 to 60. The default value is 50.	
Sharpness	The value here is to adjust the edge of the video. The larger the value is, the clear the edge is and vice versa. Please note there is noise if the value here is too high. The value ranges from 0 to 100. The recommended value ranges from 40 to 60. The default value is 50.	
Gamma	The value here is to adjust the gamma value of the video. The value ranges from 0 to 100. The recommended value ranges from 40 to 60. The default value is 50.	
Light control mode	 Outdoor: In this mode, you can switch exposure mode to get the effect under the corresponding exposure mode. 50Hz: When the current is 50Hz, system can auto adjust the exposure according to the environment brightness in case there is any strip. 60Hz: When the current is 60Hz, system can auto adjust the exposure according to the environment brightness in case there is any strip. 	
Exposure/Shutter	Auto The video whole brightness can automatically change within the proper exposure range according to the different environments. The higher the gain max value is, the lower the noise is.	

	Low Noise	 The video whole brightness can automatically change within the proper exposure range according to the different environments. The higher the gain max value is, the lower the noise is. For the same environments, the noise of the low noise mode shall be smaller than the noise of the auto mode.
	Low Motion Blur	• The video whole brightness can automatically change within the proper exposure range according to the different environments. The lower the exposure max value is, the week the tail is.
		 For the same environments, the noise of the low motion blur mode shall be smaller than that of the auto mode.
	Manual	It is to display manual exposure value.
White Balance	 It is to set the white balance mode. It has effect on the general hue of the video. This function is on by default. You can select the different scene mode such as auto, sunny, cloudy, home, office, night, disable and etc to adjust the video to the best quality. Auto: The auto white balance is on. System can auto compensate the color temperature to make sure the vide color is proper. Sunny: The threshold of the white balance is in the sunny mode. Night: The threshold of the white balance is in the night mode. Outdoor: White balance threshold sets to outdoor mode. Customized: You can set the gain of the red/blue channel. The value reneges from 0 to 100. 	
Day&Night	 It is to set device color and the B/W mode switch. When config file is general, the default is auto. When config file is day, the default is color. When config file is night, the default is black & white. Color: Device outputs the color video. Auto: Device auto select to output the color or the B/W video according to the device feature (The general bright of the video or there is IR light or not.) Black&White: The device outputs the black and white video. 	

D&N Sensitivity	It is to set sensitivity to change to Day mode and to Night mode. You can select High, Middle or Low, the default is Middle.		
D&N Delay	It is to set delay time before change to Day mode and to Night mode.		
BLC Mode	BLC The device auto exposures according to the environments situation so that the darkest are of the video is cleared		
	WDR	For the WDR scene, this function can lower the high bright section and enhance the brightness of the low bright section. So that you can view these two sections clearly at the same time.	
		The value ranges from 1 to 100. When you switch the camera from no-WDR mode to the WDR mode, system may lose several seconds record video.	
	HLC	After you enabled HLC function, the device can lower the brightness of the brightest section according to the HLC control level. It can reduce the area of the halo and lower the brightness of the whole video.	
		The value ranges from 1 to 100. The default value is 50 when HLC is on.	
		HLC is enabled only when anti-flicker is outdoor and exposure mode is auto.	
	OFF	It is to disable the BLC function. Please note this function is disabled by default.	
Mirror	It is to switch video left and right limit. This function is disabled by default.		
Flip	It is to switch video up and bottom limit. This function is disabled by default.		
DNR	It is to switch digital noise reduction on and off.		
DNR Level	It is to set digital noise reduction level. The value ranges from 1 to 100. The default value is 50.		
Cancel		I the operation in current interface and restore aved operation.	
Default	It is to set de	evice default setup.	

3.2.3 Profile Management

The profile management interface is shown as in Figure 3-8.

Live Setup	Image adjust Profile Management
Basic	Profile Management O Normal O Schedule
Image T	Always Enable Day V
JPEG/H.264	Default Refresh Save
Image adjust	
Network 🔺	
Event •	
Storage 🔺	
System •	
Information 🔺	



Profile management has three modes: normal, full time and schedule. If you select normal, the video will be configured as normal. If you select full time, you must select either day or night, and the video will be configured accordingly. If you select schedule, you can decide detained time interval.

Important

• The setup becomes immediately after you set.

3.3 Network

3.3.1 **TCP/IP**

The TCP/IP interface is shown as in Figure 3-9

Live Setup	TCP/IP	
Basic	Host Name	IPC
Image A	Ethernet Card	Wire(DEFAULT) V
Network •	Mode	Static ODHCP
ТСРЛР	MAC Address	90 . 02 . a9 . 42 . a9 . b5
Connection	IP Version	
DDNS IP Filter	IP Address	192 . 168 . 1 . 135
SMTP(Email)	Subnet mask	255 . 255 . 255 . 0
UPnP Bonjour	Default Gateway	192.168.1.1
Multicast	Primary DNS Server	192.168.1.1
QoS	Secondary DNS	0.0.0
Event ^	Server	
Storage 🔺	Enable ARP/Ping to se	t IP address service
System •		Default Refresh Save
Information		

Figure 3-9

Parameter	Function		
Host Name	It is to set current host device name. It max supports 32-digit character.		
Ethernet Card	Please select the Ethernet port. It is for the wire LAN by default.		
Mode	 Please select the Ethernet port. It is for the wire LAN by default. There are two modes: Static mode and the DHCP mode. The IP address/subnet mask/gateway are null when you select the DHCP mode to auto search the IP. If you select the static mode, you need to set the IP address/subnet mask/gateway manually. If you select the DHCP mode, you can view the IP address/subnet mask/gateway from the DHCP. If you switch from the DHCP mode to the static mode, you need to reset the IP parameters. 		
MAC Address	It is to display host MAC address.		

IP Version	It is to select IP version, IPV4 or IPV6.
	You can access the IP address of these two versions.
IP Address	Please use the keyboard to input the corresponding number to modify the IP address and then set the corresponding subnet mask and the default gateway.
Subnet mask	Input subnet mask of the network
Default Gateway	Input default gateway of the network
Primary DNS Sever	DNS IP address.
Secondary DNS Server	Alternate DNS IP address.
Enable ARP/Ping to set	You can use ARP/Ping command to modify or set the device IP address if you know the device MAC address.
IP address service.	Before the operation, please make sure the network camera and the PC in the same LAN. This function is on by default.
	You can refer to the steps listed below.
	Step 1 : Get an IP address. Set the network camera and the PC in the same LAN.
	Step 2 : Get the physical address from the label of the network camera.
	Step 3 : Go to the Run interface and then input the following commands.
	arp –s <ip address=""> <mac> ping –I 480 –t <ip address=""> Such as: arp -s 192.168.0.125 11-40-8c-18-10-11 ping -I 480 -t 192.168.0.125</ip></mac></ip>
	Step 4: Reboot the device.
	Step 5 : You can see the setup is OK if you can see there are output information such as "Reply from 192.168.0.125" from the command output lines. Now you can close the command line.
	Step 6 : Open the browse and then input http:// <ip address="">. Click the Enter button, you can access now.</ip>

3.3.2 Connection

The connection interface is shown as in Figure 3-10.

Live Setup	Connection	ONVIF
Basic 🔺	Max Connection	10 (1~20)
Image A	TCP Port	37777 (1025~65534)
Network •	UDP Port	37778 (1025~65534)
ТСР/ІР	HTTP Port	80
Connection	RTSP Port	554
DDNS IP Filter	HTTPs	
SMTP(Email)	HTTPs Port	443
UPnP		Default Refresh Save
Bonjour Multicast		
QoS		
Event 🔺		
Storage 🔺		
System 🔺		
Information		

Figure 3-10

Parameter	Function		
Max Connection	It is the max Web connection for the same device. The value ranges from 1 to 20. The max connection amount is 20.		
TCP Port	The default value is 37777. You can input the actual port number if necessary.		
UDP Port	The default value is 37778. You can input the actual port number if necessary.		
HTTP Port	The default value is 80. You can input the actual port number if necessary.		
RTSP Port	The default value is 554. RTSP stream query format is: Main stream: rtsp://username:password@ip:port/cam/realmonitor?channel=1&subtype=0 Sub stream: rtsp://username:password@ip:port/cam/realmonitor?channel=1&subtype=1 You need to input the following four items manually. username/password/IP and port. The IP is device IP and the port default value is 554. You can leave it in blank if it is the default value.		

HTTPs	Set to enable HTTPS protocol.
HTTPs Port	The default value is 443. You can input the actual port number if necessary.

3.3.3 **DDNS**

The DDNS interface is shown as in Figure 3-11.

The DDNS is to set to connect the various servers so that you can access the system via the server. Please go to the corresponding service website to apply a domain name and then access the system via the domain. It works even your IP address has changed.

Live Setup	DDNS	
Basic 🔺	Server Type	
Image A	Server Address	www.3322.org
Network •	Host name	none
ТСР/ІР	Username	none
Connection	Password	••••
DDNS IP Filter	Access interval	10 Minute (1~500)
SMTP(Email)		Default Refresh Save
UPnP Bonjour		
Multicast		
QoS		
Event •		
Storage 🔺		
System •		
Information 🔺		

Figure 3-11

Parameter	Function
Server Type	You can select DDNS protocol from the dropdown list and then enable DDNS function. The QUICK DDNS protocol means you use your self-defined private protocol to realize DDNS function.

Parameter	Function		
Server Address	DDNS server IP address		
	CN99 DDNS		
	Server address: www.3322.org		
	NO-IP DDNS		
	Server address: dynupdate.no-ip.com		
	Dyndns DDNS		
	Server address: members.dyndns.org		
	QUICK DDNS		
	Server address: www.quickddns.com		
Host name	Your self-defined host name.		
Username	The user name you input to log in the server.		
Password	The password you input to log in the server.		
Access interval	 Device sends out alive signal to the server regularly. You can set interval value between the device and DDNS server here. 		

3.3.4 **IP filter**

The IP filter interface is shown as in Figure 3-12.

You can enable IP filter function so that some specified IP/MAC user can access the network camera. You can add IP address or IP address section.

If you do not check the box here, it means there is on access limit.

Here you can add IP address and MAC address. You must add these addresses before enabling the trusted sites.

Please note: You must set MAC address in the same network segment.

Live	etup	IP Filter			
C Desta		Trusted Sites			
Basic	<u> </u>	Trusted Si	ites		
Image	•		IP address /MAC address	Modify	Delete
Network	•				
TCP/IP					
Connection					
DDNS					
IP Filter					
SMTP(Email)					
UPnP					
Bonjour		Add IP/MAC			Delete All
Multicast		Add IF MAC			Delete Air
QoS		Default	Refresh Save		
Event	•				
Storage	•				
System	•				
Information	•				

Figure 3-12

3.3.5 SMTP (Email)

The SMTP interface is shown as in Figure 3-13.

Live Setup	SMTP(Email)		
Basic 🔺	SMTP Server	none	
	Port	25	
	Anonymity		
Network • TCP/IP	Username	anonymity	
Connection	Password	••••	
DDNS IP Filter	Sender	none	
SMTP(Email)	Authentication	None V	
UPnP Bonjour	Title	IPC Message Attachment	
Multicast QoS	Mail Receiver		
Event Storage	Interval	0 Second (0~3600)	
System •	Health Mail	Update Period 60 Second (1~3600)	
Information •		Email Test	
		Default Refresh Save	

Figure 3-13

Parameter	Function		
SMTP Server	Input server address and then enable this function.		
Port	Default value is 25. You can modify it if necessary.		
Anonymity	For the server supports the anonymity function. You can auto login anonymously. You do not need to input the user name, password and the sender information.		
Username	The user name of the sender email account.		
Password	The password of sender email account.		
Sender	Sender email address.		
Authentication (Encryption mode)	You can select SSL, TLS or None.		
Title (Subject)	Input email subject here.		
Attachment	System can send out the email of the snapshot picture once you check the box here.		
Mail Receiver	Input receiver email address here. Max three addresses.		
Interval	The send interval ranges from 0 to 3600 seconds. 0 means there is no interval. Please note system will not send out the email immediately when the alarm occurs. When the alarm, VMD or the abnormity event activates the email, system sends out the email according to the interval you specified here. This function is very useful when there are too many emails activated by the abnormity events, which may result in heavy load for the email server.		
Health Mail	Please check the box here to enable this function.		
Update Period (interval)	This function allows the system to send out the test email to check the connection is OK or not. Please check the box to enable this function and then set the corresponding interval. System can send out the email regularly as you set here.		
Email Test	The system will automatically sent out an email once to test the connection is OK or not .Before the email test, please save the email setup information.		

3.3.6 UPnP

It allows you to establish the mapping relationship between the LAN and the public network. Here you can also add, modify or remove UPnP item. For UPnP on different routers, you must disable UPnP function. See Figure 3-14.

In the Windows OS, From Start->Control Panel->Add or remove programs. Click the "Add/Remove Windows Components" and then select the "Network Services" from the Windows Components Wizard. Click the Details button and then check the "Internet Gateway Device Discovery and Control client" and "UPnP User Interface". Please click OK to begin installation.

Enable UPnP from the Web. If your UPnP is enabled in the Windows OS, the network camera can auto detect it via the "My Network Places".

Under manual mode, you can modify external port. Under auto mode, select idle port for auto port mapping without user modification.

Live Setup	UPnP						
Basic 🔺	Enable	Mode Manual 🗸	Router State Mapping Fail	ed			
Basic	Port Mapping List				terror entropy of	600000	7,000
Image 🔺		Service Name	Protocol	Internal Port	External Port	Status	Modify
Network -	✓	HTTP	WebService:TCP	80	8080	Mapping Failed	1
		TCP	PrivService:TCP	37777	37777	Mapping Failed	1
TCP/IP	✓	UDP	PrivService:UDP	37778	37778	Mapping Failed	1
Connection		RTSP	RTSPService:TCP	554	554	Mapping Failed	2
DDNS							
IP Filter							
SMTP(Email)							
UPnP							
Bonjour			_				
Multicast	Default	Refresh Save					
QoS							
Event •							
Storage 🔺							
System 🔺							
Information 🔺							

Figure 3-14

3.3.7 Bonjour

The Bonjour interface is shown as below. See Figure 3-15.

Bonjour is based on the multicast DNS service from the Apple. The Bonjour device can automatically broadcast its service information and listen to the service information from other device.

You can use the browse of the Bonjour service in the same LAN to search the network camera device and then access if you do not know the network camera information such as IP address.

You can view the server name when the network camera is detected by the Bonjour. Please note the safari browse support this function. Click the "Display All Bookmarks: and open the Bonjour, system can auto detect the network camera of the Bonjour function in the LAN.

Live Set	tup	Bonjour	
Basic		Enable	
Image		Server Name	1C007BAYAZ00060
Network			Default Refresh Save
ТСРЛР	_		
Connection			
DDNS			
IP Filter			
SMTP(Email)			
UPnP			
Bonjour			
Multicast			
QoS			
Event	•		
Storage	•		
System	•		
Information	•		

Figure 3-15

3.3.8 Multicast

The multicast interface is shown as in

Live	Setup	Multicast				
		Stream(1)		Stream(2)		
Basic		Enable		Enable		
Image	<u> </u>	Multicast Address	224 . 1 . 2 . 4	Multicast Address	224 . 1 . 2 . 4	
Network			(224.0.0.0~239.255.255.255)	manadet / Karlood	(224.0.0.~239.255.255.255)	
TCP/IP		Multicast port	40000 (1025~65529)	Multicast port	40002 (1025~65529)	
Connection		Multicast port	(1025-05528)	Multicast port	40002 (1023-00323)	
DDNS IP Filter						
SMTP(Ema	ail)		Default Refresh Save			
UPnP						
Bonjour						
Multicast						
QoS						
Event	•					
Storage	•					
System						
Information	n •					

Figure 3-.

Multicast is a transmission mode of data packet. When there is multiple-host to receive the same data packet, multiple-cast is the best option to reduce the broad width and the CPU load. The source host can just send out one data to transit. This function also depends on the relationship of the group member and group of the outer.

Here you can set multicast address and port. You also need to go to Live interface to set the protocol as Multicast.

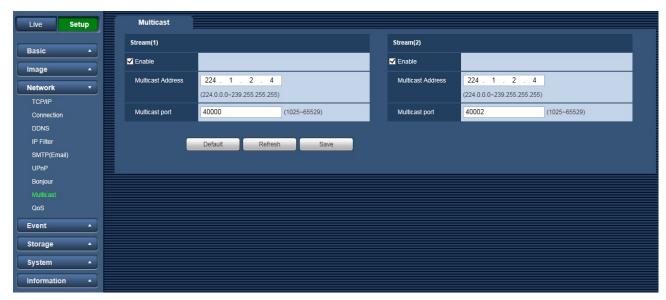


Figure 3-19

Parameter	Function
Enable	Select to enable multicast function. Stream(1) and Stream(2) cannot be used at the same time.
Multicast Address	The range of multicast address of Stream(1) and Stream(2) is 224.0.0.0 - 239.255.255.255.
Multicast Port	Multicast port. The range is 1025 - 65529.

3.3.9 **QoS**

The QoS interface is shown as below. See Figure 3-20.

QoS (Quality of Service) is network security mechanism. It is a technology to fix the network delay and jam problem and etc. For the network service, the quality of service includes the transmission bandwidth, delay, the packet loss and etc. We can guarantee the transmission bandwidth, lower the delay, reduce the loss of the data packet and anti-dither to enhance the quality.

We can set the DSCP (Differentiated Services Code Point) of the IP to distinguish the data packet so that the router or the hub can provide different services for various data packets. It can select the different queues according to the priority of the packets and select the bandwidth of the each queue. It can also discard at the different ratio when the broad bandwidth is jam.

Live Setup	QoS	
	Realtime Monitor	0 (0~63)
Basic	Command	0 (0-63)
Image 🔺		
Network •		Default Refresh Save
ТСР/ІР		
Connection		
DDNS		
IP Filter		
SMTP(Email)		
UPnP		
Bonjour		
Multicast		
QoS		
Event 🔺		
Storage 🔺		
System •		
Information •		

Figure 3-16

Parameter	Function
Realtime Monitor	The value ranges from 0 to 63. The router or the switcher can provide different service for various data packets.
Command	The value ranges from 0 to 63. The router or the switcher can provide different service for various data packets.

3.4 Event

3.4.1 Video Detect

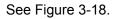
3.4.1.1 VMD

The VMD interface is shown as in Figure 3-17.

Live Setup	VMD	Tampering
Basic 🔺	Enable	
Image A	Working Period	Setup
Network •	Anti-Dither	5 Second (0~100)
Event •	VMD area	Setup
Video Detect	Record	
Abnormality	Record Delay	10 Second (10~300)
Storage •	Send Email	
System •	Snapshot	
Information •		Default Refresh Save

Figure 3-17

Parameter	Function
Enable	You need to check the box to enable VMD function.
Working Period	Here you can set arm/disarm period. Click on set button to open period setup menu.
Anti-Dither	System only memorizes one event during the anti-dither period. The value ranges from 0s to 100s.
VMD area	Here you can set VMD region and its sensitivity and area. The default covers all regions. You must click on save before enabling your setup.
Record	When record is enabled, you can trigger VMD to activate record.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Send Email	If you enabled this function, System can send out email to alert you when alarm occurs and ends.
Snapshot	You need to check the box here so that system can backup VMD snapshot file.



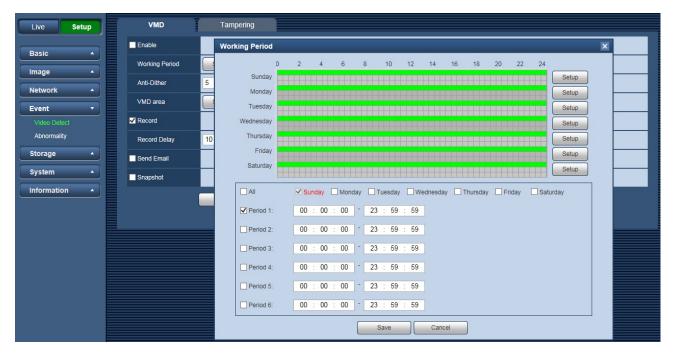


Figure 3-18

See Figure 3-19.

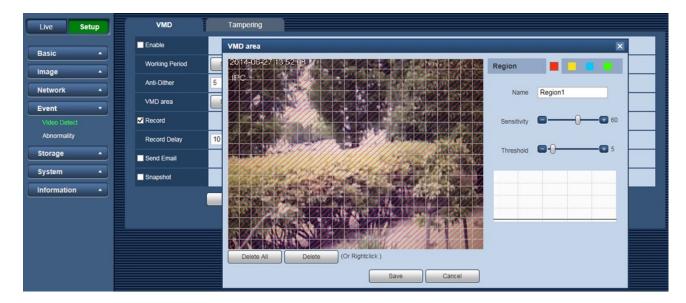


Figure 3-19

Parameter	Function
Sensitivity	It is sensitivity of brightness as VMD is more possible to be trigger with high sensitivity. You can set up to four areas. The range is 0 - 100. The recommenced value is 30 - 70. The default is 60.
Threshold	It is to check target object area related to detection area. The lower the area threshold, the easier to trigger VMD. You can set up to four areas. The range is 0 - 100. The recommenced value is 10 - 50.
Waveform	Red means motion detect is triggered. Green means motion detect is not triggered.
Delete All	Clear all areas.
Delete	Delete selected area.

3.4.1.2 Tampering

The tampering interface is shown as in Figure 3-20 and Figure 3-21.

Live Set	up	VMD	Tampering
Basic		Enable	
		Working Period	Setup
Network		Record	
Event		Record Delay	10 Second (10~300)
Video Detect		Send Email	
Abnormality		Snapshot	
Storage			Default Refresh Save
System			
Information			

Figure 3-20

Live Setup	VMD	Tampering	
Basic	Enable	Working Period	×
	Working Period		0 2 4 6 8 10 12 14 16 18 20 22 24
	Record	Sunday	Setup
Network	Record Delay	10 Monday	
Event Video Detect	Send Email	Tuesday Wednesday	Setup Setup
Abnormality	Snapshot	Thursday	Setup Setup
Storage	Shapshot	Friday	Setup
System •	L.	Saturday	Setup
		All	Sunday Monday Tuesday Wednesday Thursday Friday Saturday
		Period 1:	
		Period 2:	00 : 00 : 00 - 23 : 59 : 59
		Period 3:	00 : 00 : 00 - 23 : 59 : 59
		Period 4:	00 : 00 : 00 - 23 : 59 : 59
		Period 5:	00 : 00 : 00 - 23 : 59 : 59
		Period 6:	00 : 00 : 00 - 23 : 59 : 59
			Save Cancel

Figure 3-21

Parameter	Function
Enable	You need to check the box to enable this function.
Working Period	 Video masking function becomes activated in the specified periods. There are six periods in one day. Please draw a circle to enable corresponding period. Select date. If you do not select, current setup applies to today only. You can select all week column to apply to the whole week.
Record	After record is enabled, video masking can activate video.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Send Email	If you enabled this function, System can send out email to alert you when alarm occurs.
Snapshot	After snapshot is enabled and alarm happens, the system will automatically snapshot and alarm.

3.4.2 Abnormity

Abnormity includes Disconnection, IP Conflict and Unauthorized Access. When device is offline or IP conflicts, the network error alarm occurs.

Parameter	Function
Event Type	It includes: Disconnection, IP Conflict
Enable	Check to alarm when network is abnormal.





When login password keep been wrong for a few times, unauthorized access alarm occurs. This operation is similar to network error. Allow login error times as when it exceeds this limit, user account will be locked.



Figure 3-23

3.5 Storage

3.5.1 Record Schedule and Snapshot Schedule

In these two interfaces, you can add or remove the schedule record/snapshot setup. See Figure 3-24, Figure 3-29 and Figure 3-30.

There are two record modes: General (auto) and Motion(VMD). There are six periods in one day.

Please make sure you have enabled the corresponding record mode in the Setup->Storage->Schedule. You can view the current time period setup from the color bar.

- Green color stands for the general record/snapshot.
- Yellow color stands for the VMD record/snapshot.

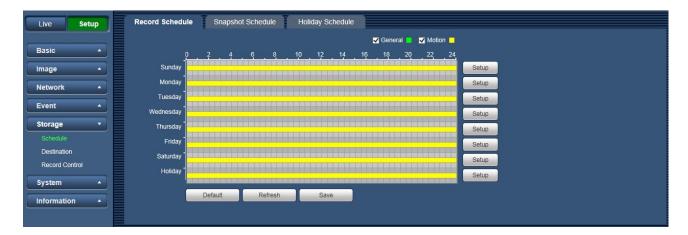


Figure 3-24

										🗸 Gen	eral 📘	Motio	n 🗌	
Basic ^	<u>_</u>	2	4	6	8	10	12	14	16	18	20	22	24	
mage 🔺	Sunday													Setup
Network	Monday													Setup
	Tuesday													Setup
Event 🔺	Wednesday													Setup
Storage 🔹	Thursday							• • • • •						Setup
Schedule	Friday													Setup
Destination	Saturday													Setup
Record Control	Holiday													
System 🔺														Setup
nformation 🔺		Defa	ult	R	efresh		Sav	e						

Figure 3-25

_ive Setup	Record Schedule Snapshot Schedule Holiday Schedule
Basic 🔺	Record Snapshot
Image 🔺	Calendar Mar 🗸
Network •	Sun Mon Tue Wed Thu Fri Sat
Event •	6 7 8 9 10 11 12
Storage •	13 14 15 16 17 18 19
Schedule	20 21 22 23 24 25 26
Destination Record Control	27 28 29 30 31
System •	
Information •	Refresh Save

Figure 3-26

You can set specified dates as holiday. When snapshot/record of holiday is enabled, the selected dates will be snapshot/recorded according to holiday setup.

3.5.2 **Destination**

3.5.2.1 Path

The destination interface is shown as in Figure 3-27.

Path can configure record and snapshot storage path. System can save according to the event types. It is corresponding to the two modes (General:Scheduled/Motion:Motion Detect) in the Schedule interface. Please check the box to enable the save functions.

Live Setup	Path	FTP				
	Record			Snapshot		
Basic •	Event Type	Scheduled	Motion Detect	Event Type	Scheduled	Motion Detect
Image 🔺	FTP			FTP		
Network 🔺	Default	Refresh Save				
Event •						
Storage 🔹						
Schedule						
Destination						
Record Control						
System •						
Information						

Figure 3-27

Parameter	Function
Event Type	It includes: scheduled and motion detect.
FTP	It saved in the FTP server.

3.5.2.2 FTP

The FTP interface is shown as in Figure 3-32.

You need to check the box to enable the FTP function. When network disconnect occurred or there is malfunction.

Live Setup	Path	FTP	
	Enable		
Basic	Server Address		
Image 🔺	Port	21	(0-65535)
Network •	Username	anonymity	
Event •	Password		
Storage •			
Schedule Destination	Remote Directory	share	
Record Control		Default F	Refresh
System 🔺			
Information •			

Figure 3-28

3.5.3 Record Control

The record control interface is shown as in Figure 3-29.

Live Setup	Record Control	
Basic 🔺	Pack Duration	8 Minute (1~120)
Image A	Pre-event Record	5 Second (0-5)
Network A	Disk Full	Overwrite
Event •	Record Mode	Auto O Manual O Off
Storage v	Record Stream	Stream(1)
Schedule		Default Refresh Save
Destination		
Record Control		
System •		
Information 🔺		

Figure 3-29

Parameter	Function
Pack Duration	Here you can select file size. Default setup is 8 minutes.
Pre-event Record	Please input pre-event record value here.
	For example, system can record the four seconds video in the buffer. The record begins from the fifth second.
Disk Full	 There are two options: stop recording or overwrite the previous files when HDD is full. Stop: Current working HDD is overwriting or current HDD is full, it will stop record. Overwrite: Current working HDD is full; it will overwrite the previous file.
Record Mode	There are three modes: Auto/Manual/Off.
Record Stream	There are two options: Stream(1) and Stream(2).

3.6 System

3.6.1 Account (User mng.)

Note:

- For the character in the following user name or the user group name, system max supports 15digits. The valid string includes: character, number, and underline.
- Password can be 0~32 characters in number and letter only. User can modify other user's password.
- The factory default setup includes two levels: user and admin. You can set the corresponding group and then set the rights for the respective user in the specified groups.
- User management adopts group/user modes. The user name and the group name shall be unique. One user shall be included in only one group.

3.6.1.1 User Name

In this interface you can enable anonymity login, add/remove user and modify user name. See Figure 3-30.

Live Setup	User mng.	1						
Desis	Anonymous Login							
Basic •	User Name	Group						
Image 🔺	No.	Username	Group Name	Re	emark	м	odify	Delete
Network •	1	admin	admin	admi	in 's account		2	•
Event •								
Storage 🔺								
System •								
User mng.								
Default reset								
Import/Export	Authority List						_	
Auto Maintain	Live	Record Control	Account	Log Search	Clear Log	Upgrade		
Upgrade	Auto Maintain	General	Video/Audio	Schedule/Destination	Network	Abnormality		
	Video Detect	Default/Import/Export	Conditions					
Information •								
	Add User							

Figure 3-30

Enable anonymity login: Enable anonymity login, and input IP. No username or password is required, you can log in by anonymity (with limited rights). You can click logout to end your session.

Add user: It is to add a name to group and set the user rights. See Figure 3-31.

Here you can input the user name and password and then select one group for current user.

Please note the user rights shall not exceed the group right setup.

For convenient setup, please make sure the general user has the lower rights setup than the admin.

Live Setup	User mng.							
Desis	Anonymous Login							
Basic	User Name	Group	Add User		×			
Image 🔺	No.	Username				Modify	Delete	
Network 🔺	1	admin	User Name			2	•	
Event •			Password					
Storage 🔺			Confirm Password					
System •			Group	admin 🗸				
User mng.			Remark					
Default reset			Authority List	All				
Import/Export	Authority List							
Auto Maintain	Live	Record Control		✓ Live		Upgrade		
Upgrade	Auto Maintain	General		Record Control		Abnormality		
Information •	Video Detect	Default/Import/Expor		Account				
	Add User			Save Cancel				

Figure 3-31

Modify user

It is to modify the user property, belonging group, password and rights. See Figure 3-32.

Modify password

It is to modify the user password. You need to input the old password and then input the new password twice to confirm the new setup. Please click the Save button to save.

Please note, the password ranges from 0-digit to 32-digit. It shall include the number and letter only. For the user who has the account rights, he can modify the password of other users.

Live Setup	User mng.						
Basic 🔺	Anonymous Login						
Basic	User Name	Group	Modify User		×		
Image 🔺	No.	Username				Modify	Delete
Network 🔺	1	admin	User Name	admin 🗸		2	•
Event •			Modify Password				
			Group	admin 🗸			
Storage 🔺			Remark	admin 's account			
System 🔻			Kenlark	admin 5 account			
User mng.			Authority List	All			
Default reset				✓ Live	^		
Import/Export	Authority List						
Auto Maintain	Live	Record Control		Record Control		Upgrade	
Upgrade	Auto Maintain Video Detect	General Default/Import/Expor		Account	~	Abnormality	
Information •	VIGEO DELECT	DeladiomporoExpor		Save Cancel			
	Add User						

Figure 3-32

3.6.1.2 Group

The group management interface can add/remove group, modify group password and etc. The interface is shown as in Figure 3-33.

Live	Setup	User mng.								
Basic	•	Anonymous Login								
Basie		User Name	Group							
Image		No.	Group Name		Remark		м	odify	Delete	
Maturati		1	admin		administrator gr	oup		1	•	
Network	<u> </u>	2	user		user group			1	•	
Event	•									
Storage	•									
System	•									
Default reset										
Import/Expor	t	Authority List								
Auto Maintai		Live	Record Control	Account	Log Search	Clear Log	Upgrade			
Upgrade		Auto Maintain	General	Video/Audio	Schedule/Destination	Network	Abnormality			
		Video Detect	Default/Import/Export	Conditions						
Information	•									
		Add Group								

Figure 3-33

Add Group: It is to add group and set its corresponding rights. See Figure 3-34.Please input the group name and then check the box to select the corresponding rights. It includes: preview, playback, record control and etc.

Live Setup	User mng.	1					
	Anonymous Login						
Basic	User Name	Group	Add Group		×		
Image 🔺	No.	Group Name				Modify	Delete
Network •	1	admin	Group			2	-
INELWOIK -	2	user	Remark			2	•
Event 🔺							
Storage 🔺			Authority List	All			
				Live	^		
System •							
User mng.				Record Control			
Default reset				Account	~		
Import/Export	Authority List						
Auto Maintain	Live	Record Control		Save Cancel		Upgrade	
Upgrade	Auto Maintain	General	Video/Audio	Schedule/Destination Network		Abnormality	
Information •	Video Detect	Default/Import/Expor	t Conditions				
	Add Group						

Modify group

Click the modify group button, you can see an interface is shown as in Figure 3-35. Here you can modify group information such as remarks and rights.

Delete
•
•

Figure 3-35

3.6.2 Default reset

The default reset interface is shown as in Figure 3-36.

Please note system cannot restore some information such as network IP address.



Figure 3-36

3.6.3 Import/Export

The interface is shown as in Figure 3-37.

Live	Setup
Basic	•
Image	_
Network	•
Event	•
Storage	•
System	•
User mng.	
Default resi	
Auto Mainta	
Upgrade	
Informatio	n 🔺

Figure 3-37

Please refer to the following sheet for detailed information.

Parameter	Function
Import	It is to import the local setup files to the system.
Export	It is to export the corresponding system setup to your local PC.

3.6.4 Auto Maintenance

The auto maintenance interface is shown as in Figure 3-38.

Here you can select auto reboot and auto delete old files interval from the dropdown list. If you want to use the auto delete old files function, you need to set the file period.



Figure 3-38

3.6.5 Upgrade

The upgrade interface is shown as in Figure 3-39.

Please select the upgrade file and then click the Upgrade button to begin firmware update.

Important

Improper upgrade program may result in device malfunction!



Figure 3-39

3.7 Information

3.7.1 Version

The version interface is shown as in Figure 3-40.

Here you can view system hardware features, software version, release date and etc. Please note the following information is for reference only.

Live Setup	Version	
Basic 🔺	Software Version	2.420.PS00.12.T, build : 2016-03-08
Image A	WEB Version	3.2.1.315911
Network	S/N	1C007BAYAZ00060
Event •		
Storage A		
System A		
Information •		
Version		
Log		
Online User		



3.7.2 **Log**

Here you can view system log. See Figure 3-41.

Live Setu	Log	
Basic Image Network Event	Start Time 2016 - 03 - 08 15 : Type All ✓ Search No. Lo	15 : 37 : 33 rmame Event
Storage System Information		
Version Log Online User	Detailed Information	
	Backup	I◀ ◀ 1 / 1 ▶ ▶I Go To

Figure 3-41

Please refer to the following sheet for log parameter information.

Parameter	Function
Туре	Log types include: all, system operation, setting operation, data operation, event operation, record operation, account management, clear log.
Start Time	Set the start time of the requested log.
End Time	Set the end time of the requested log.
Search	You can select log type from the drop down list and then click search button to view the list. You can click the stop button to terminate current search operation.
Detailed Information	You can select one item in the list to view the detailed information.
Clear	You can click this button to delete all displayed log files. Please note system does not support clear by type.
Backup	You can click this button to backup log files to current PC.

3.7.3 Online User

The online user interface is shown as in Figure 3-42.

Here you can view current online user, group name, IP address and login time.



Figure 3-42

4 Alarm

Please note some series product does not support this function.

Click alarm function, you can see an interface is shown as in Figure 4-1. Here you can set device alarm type and alarm sound setup.



Figure 4-1

Туре	Parameter	Function
Alarm	VMD	System alarms when VMD alarm occurs,
Туре	Tampering	System alarms when tampering alarm occurs.
	Illegal Access	System alarms when illegal access occurs,
Operation	Prompt	System automatically pops up alarm dialogue box.
Alarm Tone	Play Alarm Tone	When alarm occurs, system auto generates alarm audio. The audio supports customized setup.
	Tone Path	Here you can specify alarm sound file.

5 Log out

Click log out button, system goes back to log in interface. See Figure 5-1.

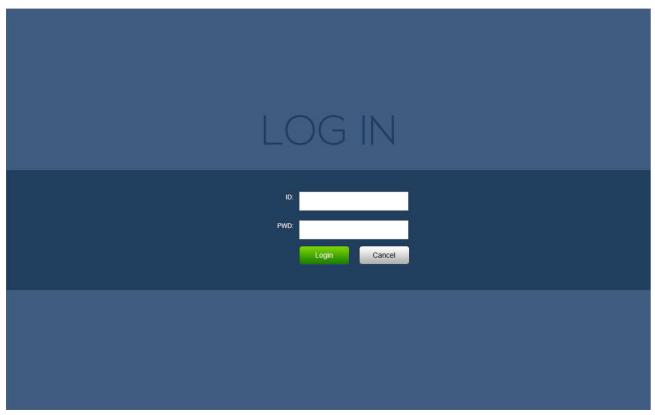


Figure 5-1

Note:

- This manual is for reference only. Slight difference may be found in user interface.
- All the designs and software here are subject to change without prior written notice.
- All trademarks and registered trademarks mentioned are the properties of their respective owners.
- If there is any uncertainty or controversy, please refer to the final explanation of us.