

XL-ICA-206M2IR-36 IP camera



Web Operation Manual

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Important

The following functions are for reference only. Some series products may not support all the functions listed below.

1 Network Connection

These series network camera products support the Web access and management via PC.

Web includes several modules includes monitor channel preview, PTZ control, 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 192.168.1.108, then please input http:// 192.168.1.108 in IE address bar. See Figure 2-1.

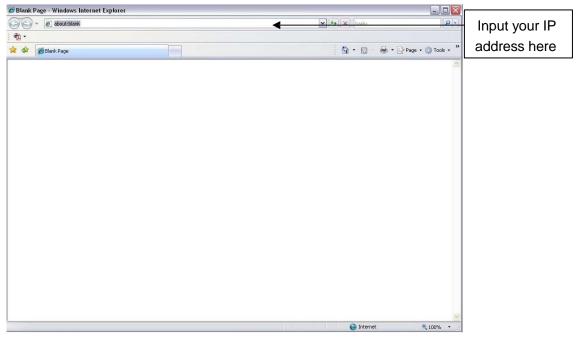


Figure 2-1 IE

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

Please input your user name and password.

Default factory name is admin and password is admin.

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

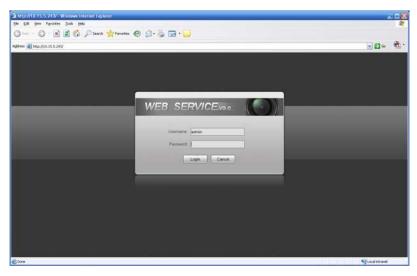
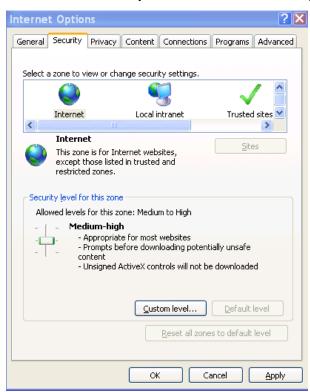


Figure 2-2 Login Interface

If it is your first time to login in, system pops up warning information to ask you whether install control webrec.cab or not. Please click OK button, system can automatically install the control. When system is upgrading, it can overwrite the previous Web too.

If you can't download the ActiveX file, please check whether you have installed the plug-in to disable the control download. Or you can lower the IE security level. See Figure 2-3.



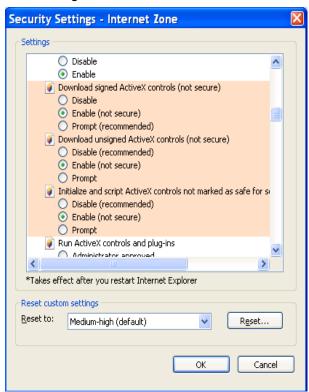


Figure 2-3 Security Settings

2.2 Live Interface

After you logged in, you can see the live monitor window. See Figure 2-4

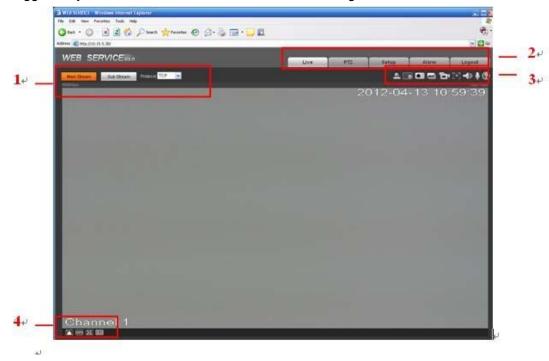


Figure 2-4 Live Interface

There are four sections:

- Section 1: Encode setup bar
- Section 2: System menu
- Section 3: Window function option bar
- Section 4: Window adjust bar

2.3 Encode Setup

The encode setup interface is shown as in Figure 2-5.



Figure 2-5 Encode setup

| Parameter | Function |
|-------------|---|
| Main stream | In normal network width environment, main stream can record audio/video file and realize network monitor. You can set the main stream resolution if your device supports. |

| Sub (Extra) stream | If network width is not sufficient, you can use sub stream to realize network monitor. |
|-----------------------|---|
| Protocol | You can select stream media protocol from the dropdown list. There are three options: TCP/UDP/Multicast |

2.4 System Menu

System menu is shown as in Figure 2-6.

Please refer to chapter 2.2 Live, chapter 3 PTZ, chapter 4 Setup, chapter 5 Alarm, chapter 6 Log out for detailed information.



Figure 2-6 System Menu

2.5 Video Window Function Option

The interface is shown as below. See Figure 2-7

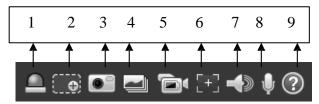


Figure 2-7 Video Window Function

| SN | Parameter | Function | |
|----|-----------------|---|--|
| 1 | Alarm output | Click it to generate an alarm output. You can see the icon becomes red. Click it again; you can disable the alarm output. | |
| 2 | 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. | |
| 3 | Snapshot | You can snapshoot important video. All images are memorized in system folder: \ picture download (default). You can go to Setup->Camera->Video->Path to modify the local record save path. | |
| 4 | Triple snap | Click it, system can snap at 1f/s. All images are memorized in system storage folder. | |

| 5 | Record | When you click local record button, the system begins recording. The recorded file is saved to system folder: \RecordDownload(default). | |
|---|--------------------|---|--|
| | | You can go to Setup->Camera->Video->Path to modify the local record save path. | |
| 6 | Easy focus | Click it, you can see there are two parameters on the preview video: AF Peak and AF Max. | |
| | | AF Peak: It is to display the video definition during the focus process. | |
| | | AF Max: It is the most suitable value for the video definition. | |
| | | The close the AF Peak and AF Max is, the better the focus effect is. | |
| 7 | Audio output | Turn on or off audio when you are monitoring. | |
| 8 | Bidirectional talk | Click it to begin audio talk. You can go to Setup->Camera->Audio to set bidirectional talk mode. | |
| 9 | Help | Click it to open help file. | |

2.6 Video Window Setup

The interface is shown as in Figure 2-8.

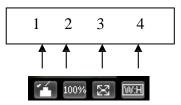
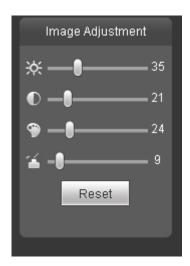


Figure 2-8 Video Window Setup

Please refer to the following sheet for detailed information.

| SN | Parameter | Function |
|----|------------------------|---|
| 1 | Image control | Click it to open picture setup interface. See Figure 2-9. This interface is on the top right pane. |
| 2 | 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. |
| 3 | Full screen | Click it to go to full-screen mode. Double click the mouse or click the Esc button to exit the full screen. |
| 4 | Width and height ratio | Click it to restore original ratio or suitable window. |

The picture setup interface is shown as in Figure 2-9.



 $\label{eq:Figure 2-9} Figure \ 2-9$ Please refer to the following sheet for detailed information.

| Parameter | | Function | | |
|----------------|----------|--|--|--|
| Video setup | × | It is to adjust monitor video brightness. | Note: - All the operations here | |
| | | It is to adjust monitor video contrast ness. | apply to WEB end only. Please go to Setup- | |
| | 9 | It is to adjust monitor video saturation. | >Camera->Conditions to adjust corresponding items. | |
| | 4 | It is to adjust monitor video hue. | corresponding terms. | |
| | Reset | Restore brightness, contrastness saturation and hue to system default setup. | | |

3 Setup

3.1 Camera

3.1.1 Conditions

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 4-1.

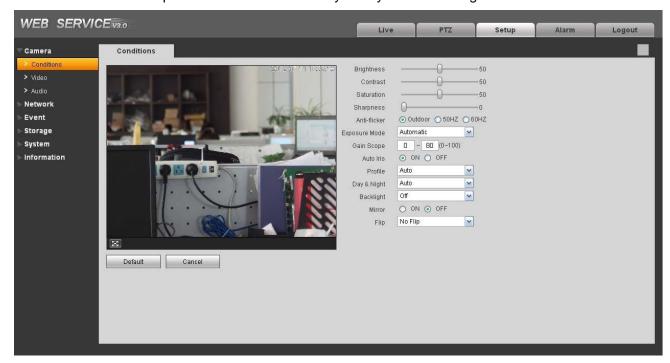


Figure 4-1

| Parameter | Function |
|------------|---|
| Brightness | It is to adjust monitor window bright. The value ranges from 0 to 100. The default value is 50. |
| | 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. You can use this function when the whole video is too dark or too bright. Please note the video may become hazy if the value is too high. The recommended value ranges from 40 to 60. |

| Contrast | It is to adjust monitor window contrast. The value ranges from 0 to 100. The default value is 50. 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 recommended value ranges from 40 to 60. | | |
|---------------|---|---|--|
| Saturation | It is to adjust monitor window saturation. The value ranges from 0 to 100. The default value is 50. 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 recommended value ranges from 40 to 60. | | |
| 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 default value is 50 and the recommended value ranges from 40 to 60. | | |
| Anti-flicker | 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 Mode | Auto mode | 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 |
| | Manual | that of the auto mode. |
| | Manual | It is to display manual exposure value. |
| Gain Adjust | The gain adjust is to set the gain value. The default value may vary due to different device models. The smaller the value, the low the noise. But the brightness is also too low in the dark environments. It can enhance the video brightness if the value is high. But the video noise may become too clear. | |
| Exposure Mode | There are two modes: Auto exposure (AE) and Manual exposure (ME). | |
| | There are several values for the manual exposure mode. You can select from the dropdown list, It support the long exposure. It supports customized setup too. The device can auto exposure according to the exposure time you set here. The value ranges from 0.1 to 80ms. The exposure time is fixed if the max and min value are the same. | |
| | Customized value: System can auto exposure according to the value you set here. The value ranges from 0.1 to 80ms. | |

| Auto Iris | Before the setup, please make sure you have installed the auto iris. | | |
|----------------|--|--|--|
| | You can check the box before ON to enable this function. The auto iris may change if the light becomes different. | | |
| | When you disable this function, the iris is at the max. System does not add the auto iris function in the exposure control. | | |
| | This function is on by default. | | |
| Scene Mode | 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. | | |
| | Disabled: The white balance function is off. The video will be output at the original color. | | |
| | 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. | | |
| | 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. The default setup is on. | | |
| | 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.) | | |
| | B/W: The device outputs the black and white video. | | |
| | Switch by periods: You can se the day/night mode switch time. For example, you can set the sunrise time as 06:00:00 and the sunset time as 18:00:00. The video in the specified period will be color while the video in the rest period will be black and white. | | |
| Backlight Mode | BLC The device auto exposures according to the environments situation so that the darkest area 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. |
|------------------|---|--|
| | DWDR (Digital 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. |
| | 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. |
| | Off | It is to disable the BLC function. Please note this function is disabled by default. |
| Full-screen test | Click the button on the video window, you can begin full-screen test. | |
| Flip | It is to switch video up and bottom limit. This function is disabled by default. The video resolution shall be 720P or below if you want to flip 90°. | |
| Mirror | It is to switch video left and right limit. This function is disabled by default. | |
| Cancel | It is to cancel the operation in current interface. | |
| Default | It is to set device default setup. | |

Important

- The setup becomes immediately after you set. You can see WDR option only if your camera supports WDR function. System does not support digital WDR, long-time exposure or low noise mode.

3.1.2 Video

3.1.2.1 Video bit stream

The video bit stream interface is shown as below. See Figure 4-2.

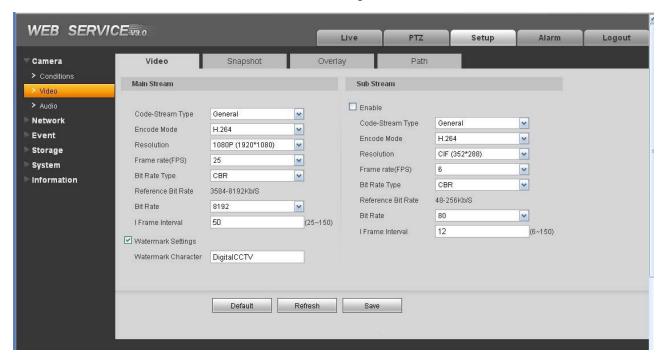


Figure 4-2

| Parameter | | Function |
|----------------|-----------------|---|
| Main stream | Bit stream type | It includes general stream, motion stream and alarm stream. You can select different encode frame rates form different recorded events. System supports active control frame function (ACF). It allows you to record in different frame rates. For example, you can use high frame rate to record important events, record scheduled event in lower |
| | | frame rate and it allows you to set different frame rates for motion detection record and alarm record. |

| Parameter | | Function |
|---------------|-------------------------|--|
| | Encode mode | There are three options: H.264(main profile standard, H.264B(baseline standard) encode and MJPG encode. H.264: Main 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. |
| | Resolution | There are multiple resolutions. You can select from the dropdown list. |
| | | For each resolution, the recommended bit stream value is different. Important |
| | | You can not set a resolution higher than 720P (not including 720P) when the flip function is in process. |
| | Frame Rate | PAL: 1~25f/s, NTSC: 1~30f/s |
| | | The frame rate may vary due to different resolutions. |
| | Bit Rate Type | There are two options: VBR and CBR. Please note, you can set video quality in VBR mode. |
| | Reference Bit Stream | 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. |
| | I Frame | 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 *2. |
| | Watermark | 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. |
| Sub stream | Enable | Please check the box here to enable extra stream function. This function is enabled by default. |
| | Bit stream type | General bit stream. |

| Parameter | | Function |
|-----------|--------------------|--|
| | Encode mode | There are three options: H.264(main profile standard, H.264B(baseline standard) encode and MJPG encode. The H.264 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. |
| | Resolution | There are multiple resolutions. You can select from the dropdown list. For each resolution, the recommended bit stream value is different. |
| | Frame Rate | PAL: 1~25f/s, NTSC: 1~30f/s The frame rate may vary due to different resolutions. |
| | Bit Rate Type | There are two options: VBR and CBR. Please note, you can set video quality in VBR mode. |
| | Recommended Bit | Recommended 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. |
| | I Frame | 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 *2. |

3.1.2.2 Snapshot

The snapshot interface is shown as in Figure 4-3.



Figure 4-3

Please refer to the following sheet for detailed information.

| Parameter | Function |
|---------------|--|
| Snapshot type | There are two modes: general (schedule) and Event (activation). |
| Image size | It is the same with the resolution of the main stream. |
| 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. |

3.1.2.3 Video Overlay

The video overlay interface is shown as in Figure 4-4.

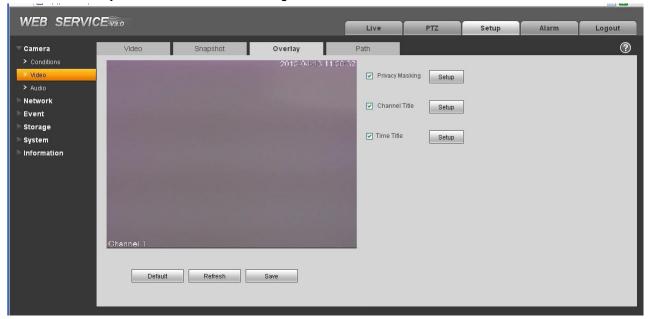


Figure 4-4

| Parameter | Function |
|---------------|---|
| Privacy mask | Here you can privacy mask the specified video in the monitor video.System max supports 4 privacy mask zones. |
| Time Title | 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. |
| 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. |

3.1.2.4 Path

The storage path interface is shown as in Figure 4-5.

Here you can set snap image saved path



path (

in the preview interface). The default setup is C:\PictureDownload.

Please click the Save button to save current setup.



Figure 4-5

4.1.3 Audio

The audio interface is shown as below. See Figure 4-6.

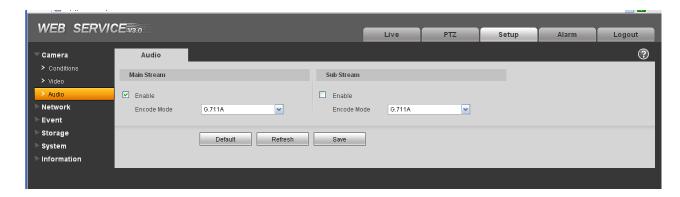


Figure 4-6

Please refer to the following sheet for detailed information.

| Parameter | Function |
|--------------|--|
| Audio enable | Main stream: Recorded file only contains video by default. You need to check the audio box here to enable audio function. |
| | Sub (Extra) stream: Recorded file only contains video by default. You need to check the audio box here to enable audio function. |
| Encode mode | The encode mode of the main stream and extra stream include PCM, G.711A and G.711Mu. |
| | The setup here is for audio encode mode and the bidirectional talk encode both. |

4.2 Network

4.2.1 TCP/IP

The TCP/IP interface is shown as in Figure 4-7.

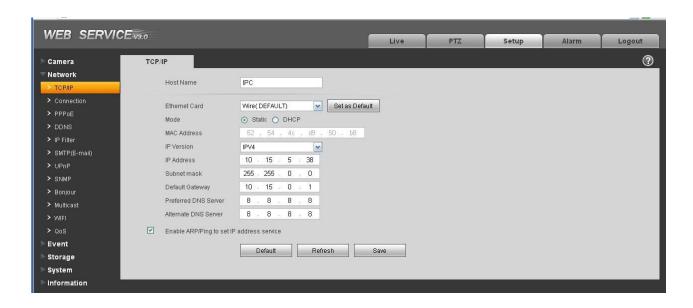


Figure 4-7
Please refer to the following sheet for detailed information.

| 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. Please note for the -W series product, it has the wireless network card, and you can modify the default Ethernet port setup. Please note the device needs to reboot to activate the new setup once you modify the default setup. | |
| Mode | There are two modes: static mode and the DHCP mode. The IP/submask/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/submask/gateway manually. If you select the DHCP mode, you can view the IP/submask/gateway from the DHCP. If you switch from the DHCP mode to the static mode, you need to reset the IP parameters. Besides, IP/submask/gateway and DHCP are read-only when the PPPoE dial is OK. | |
| Mac Address | It is to display hose Mac address. | |

| IP Version | It is to select IP version. IPV4 or IPV6. |
|---|---|
| | You can access the IP address of these two version. |
| 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. |
| Preferred DNS | DNS IP address. |
| Alternate DNS | Alternate DNS IP address. |
| Enable ARP/Ping set device IP address service. | You can use ARP/Ping command to modify or set the device IP address if you know the device MAC address. |
| | 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 addres="">. Click the Enter button, you can access now.</ip> |

4.2.2 Connection

The connection interface is shown as in Figure 4-8.



Figure 4-8 Please refer to the following sheet for detailed information.

| 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. You do not need to input the user name and password if you do not need to the verification. Such as: rtsp://ip:port/cam/realmonitor?channel=1&subtype=0 |

| HTTPs Enable | Usually the default value is 443. |
|-----------------|-----------------------------------|
| 2.100.0 | |

4.2.3 **PPPoE**

The PPPoE interface is shown as in Figure 4-9.

Input the PPPoE user name and password you get from the IPS (internet service provider) and enable PPPoE function. Please save current setup and then reboot the device to get the setup activated.

Device connects to the internet via PPPoE after reboot. You can get the IP address in the WAN from the IP address column.

Please note, you need to go to the IP address item to via the device current device information. You can access the client-end via this address.



Figure 4-9

4.2.4 DDNS

The DDNS interface is shown as in Figure 4-10.

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.

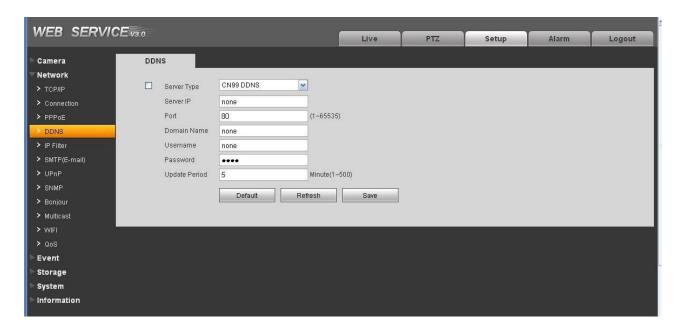


Figure 4-10

Please refer to the following sheet for detailed information.

| Parameter | Function |
|---------------|---|
| Server Type | You can select DDNS protocol from the dropdown list and then enable DDNS function. The private DDNS protocol means you use your self-defined private protocol to realize DDNS function. |
| Server IP | DDNS server IP address |
| Server Port | DDNS server port. |
| Domain Name | Your self-defined domain name. |
| User | The user name you input to log in the server. |
| Password | The password you input to log in the server. |
| Update period | Device sends out alive signal to the server regularly. You can set interval value between the device and DDNS server here. |

4.2.5 IP filter

The IP filter interface is shown as in Figure 4-11.

You can enable IP filter function so that some specified IP 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.



Figure 4-11

4.2.6 SMTP (e-mail)

The SMTP interface is shown as in Figure 4-12.

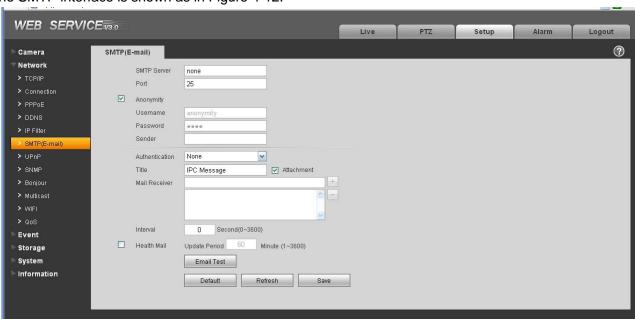


Figure 4-12

| 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. |
| User Name | 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 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, motion detection 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 enable | 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 a email once to test the connection is OK or not .Before the email test, please save the email setup information. |

4.2.7 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. See Figure 4-13.

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"

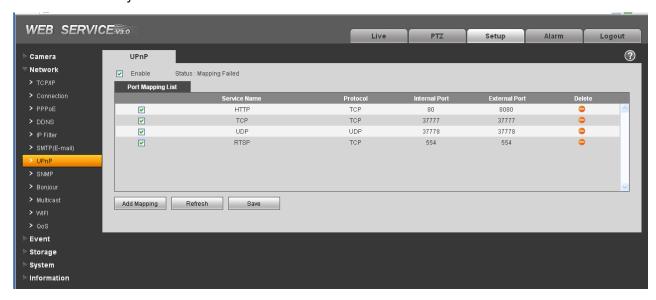


Figure 4-13

4.2.8 SNMP

The SNMP interface is shown as in Figure 4-14.

The SNMP allows the communication between the network management work station software and the proxy of the managed device. Please install the software such as MG MibBrowser 8.0c software or establish the SNMP service before you use this function. You need to reboot the device to activate the new setup.



Figure 4-14

| Parameter | Function |
|-----------------|---|
| SNMP Port | The listening port of the proxy program of the device. It is a UDP port not a TCP port. The value ranges from 1 to 65535. The default value is 161 |
| Read Community | It is a string. It is a command between the manage process and the proxy process. It defined the authentication, access control and the management relationship between one proxy and one group of the managers. Please make sure the device and the proxy are the same. The read community will read all the objects the SNMP supported in the specified name. The default setup is public. |
| Write Community | It is a string. It is a command between the manage process and the proxy process. It defined the authentication, access control and the management relationship between one proxy and one group of the managers. Please make sure the device and the proxy are the same. The read community will read/write/access all the objects the SNMP supported in the specified name. The default setup is write. |
| Trap address | The destination address of the Trap information from the proxy program of the device. |

| Parameter | Function |
|--------------|--|
| Trap port | The destination port of the Trap information from the proxy program of the device. It is for the gateway device and the client-end PC in the LAN to exchange the information. It is a non-protocol connection port. It has no effect on the network applications. It is a UDP port not TCP port. The value ranges from 1 to 165535. The default value is 162. |
| SNMP version | Check SNMP V1, system only processes the information of V1. Check SNMP V2, system only processes the information of V2. Check SNMP V3.you can set user name and password. There is account security verification when the server wants to connect to the device. At the same time, the v1 and V2 is null and can not select. |

4.2.9 Bonjour

The Bonjour interface is shown as below. See Figure 4-15.

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.



Figure 4-15

4.2.10 Multicast

The multicast interface is shown as in Figure 4-16.

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 4-16

4.2.11 WIFI

Please note this function is for the device of WIFI module.

The WIFI interface is shown as in Figure 4-17.

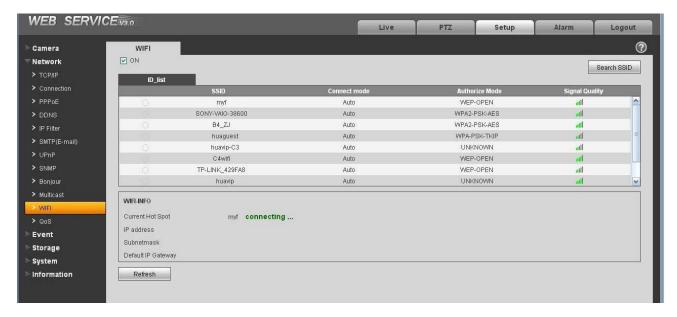


Figure 4-17

Please check the box to enable WIFI function and then click the Search SSID button. Now you can view all the wireless network information in the following list. Double click a name to connect to it. See Figure 4-18.

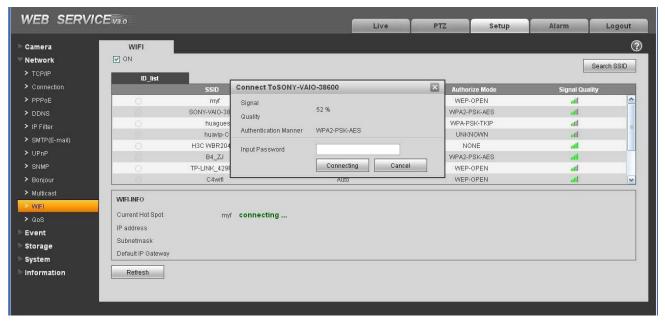


Figure 4-18

4.2.12 Qos

The QoS interface is shown as below. See Figure 4-19.

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.

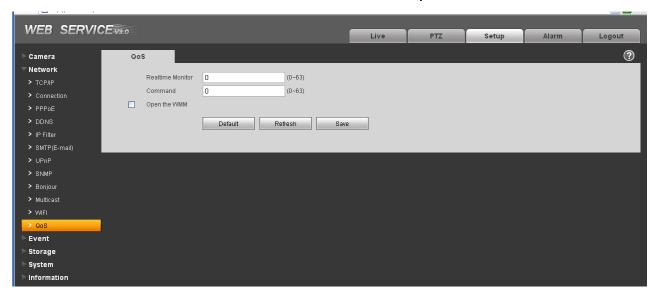


Figure 4-19

Please refer to the following sheet for detailed information.

| Parameter | Function |
|-------------------|---|
| Real-time 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. |

4.3 Event

4.3.1 Video detect

4.3.1.1 Motion Detect

The motion detect interface is shown as in Figure 4-20.

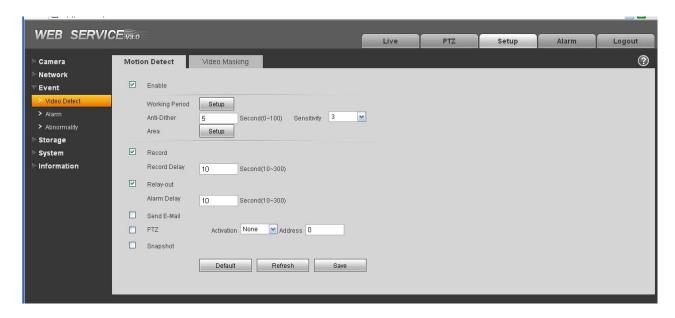


Figure 4-20

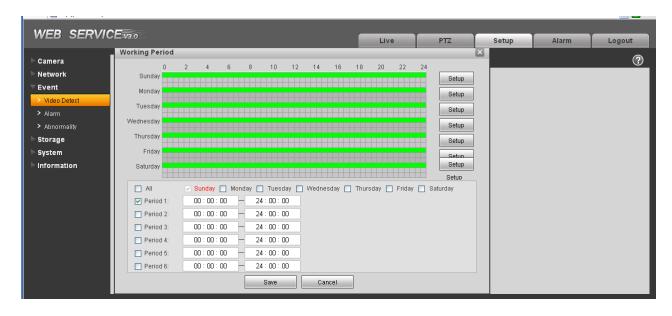


Figure 4-21

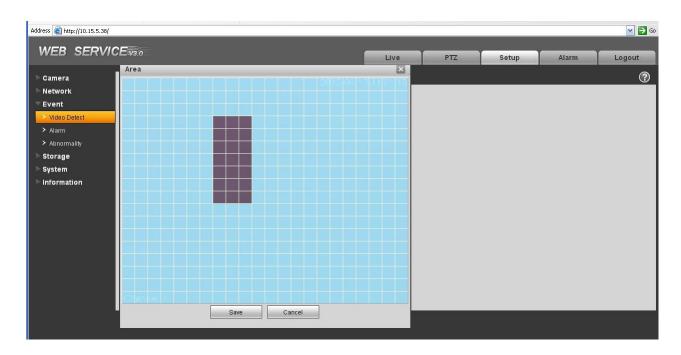


Figure 4-22

| Parameter | Function |
|-------------------|---|
| Enable | You need to check the box to enable motion detection function. |
| Sensitivity | There are six levels. The sixth level has the highest sensitivity. |
| Region | There are six levels. The sixth level has the highest sensitivity. Region: If you select motion detection type, you can click this button to set motion detection zone. The interface is shown as in Figure 4-22. There are PAL 22X18/NTSC 22X15 zones. Right click mouse you can go to full-screen display mode. Do remember clicking OK button to save your motion detection |
| Working Period | Zone setup. Motion detection function becomes activated in the specified periods. See Figure 4-21. 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. Click OK button, system goes back to motion detection |
| Anti-dither | interface, please click save button to exit. System only memorizes one event during the anti-dither period. The value ranges from 0s to 100s. |

| Parameter | Function | | | |
|-------------------|---|--|--|--|
| Relay out | Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs. | | | |
| Alarm Delay | System can delay the alarm output for specified time after alarm ended. The value ranges from 10s to 300s. | | | |
| Record channel | System auto activates motion detection channel to record once alarm occurs (working with motion detection function). Please note you need to go to Storage-> Schedule to set current channel as general 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. | | | |
| PTZ | Here you can set PTZ movement when alarm occurs. Such as go to preset x when there is an alarm. The event type includes: preset, tour and pattern. | | | |
| Snapshot | You need to check the box here so that system can backup motion detection snapshot file. | | | |

4.3.1.2 Video Masking

The video masking interface is shown as in Figure 4-23.

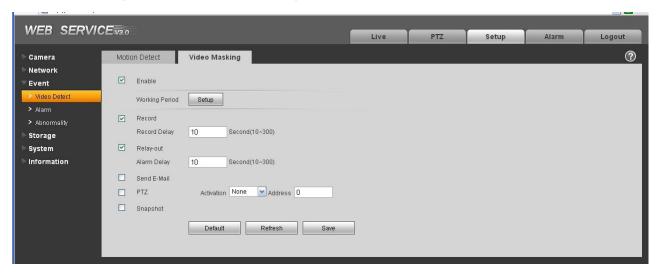


Figure 4-23

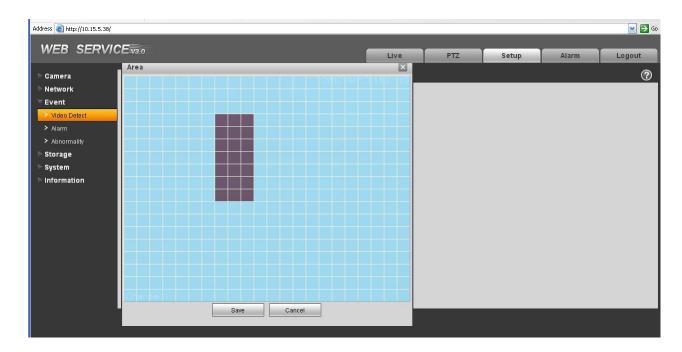


Figure 4-24

| Parameter | Function | | | |
|-------------------|--|--|--|--|
| Enable | ou need to check the box to enable this function. | | | |
| Sensitivity | There are six levels. The sixth level has the highest sensitivity. | | | |
| Area | There are six levels. The sixth level has the highest sensitivity. Region: you can click this button to set Video masking zone. The interface is shown as in Figure 4-24. There are PAL 22X18/NTSC 22X15 zones. Right click mouse you can go to full-screen display mode. Do remember clicking OK button to save your Video masking zone setup. | | | |
| 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. Click OK button, system goes back to motion detection interface, please click save button to exit. | | | |
| Anti-dither | System only memorizes one event during the anti-dither period. The value ranges from 0s to 100s. | | | |

| Parameter | Function | | | |
|-------------------|--|--|--|--|
| Relay out | Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs. | | | |
| Alarm Delay | System can delay the alarm output for specified time after alarm ended. The value ranges from 10s to 300s. | | | |
| Record channel | system auto activates motion detection channel to record once larm occurs (working with motion detection function). Please ote you need to go to Storage-> Schedule to set current channel s general record. | | | |
| Record Delay | System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s. | | | |
| Email | If you enabled this function, System can send out email to alert you when alarm occurs. | | | |
| PTZ | Here you can set PTZ movement when alarm occurs. Such as go to preset x when there is an alarm. The event type includes: preset, tour and pattern. | | | |
| Capture | You need to input capture channel number so that system can backup motion detection snapshot file. | | | |

4.3.2 Alarm

4.3.2.1 Alarm activation

The alarm activation interface is shown as in Figure 4-25.

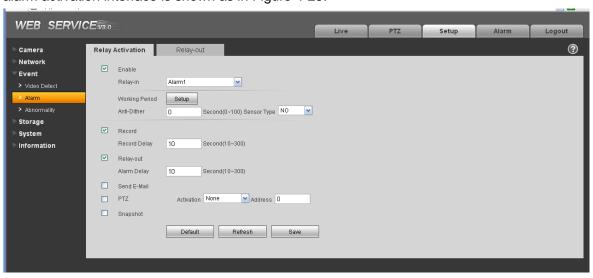


Figure 4-25

| Parameter | Function | | | |
|-------------------|---|--|--|--|
| Enable | You need to check the box to enable this function. | | | |
| Working Period | This 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. Click OK button, system goes back to motion detection interface; please click save button to exit. | | | |
| Anti-dither | System only memorizes one event during the anti-dither period. The value ranges from 0s to 100s. | | | |
| Sensor type | There are two options: NO/NC. | | | |
| Relay out | There is 1-channel alarm output. | | | |
| | Corresponding to motion detection alarm output port. Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs. | | | |
| Alarm Delay | System can delay the alarm output for specified time after alarm ended. The value ranges from 10s to 300s. | | | |
| Record Channel | System auto activates motion detection channel to record once alarm occurs (working with motion detection function). Please note you need to go to Storage-> Schedule to set current channel as general 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. | | | |
| PTZ | Here you can set PTZ movement when alarm occurs. Such as go to preset x when there is an alarm. The event type includes: preset, tour and pattern. | | | |
| Snapshot | You need to input capture channel number so that system can backup motion detection snapshot file. | | | |

4.3.2.2 Relay output

The relay output interface is shown as in Figure 4-26.



Figure 4-26

| Parameter | Function |
|--------------|--|
| Alarm output | There is only one output channel. Please click the button 1. If you want to enable the alarm activation output function, please press the corresponding button and then trigger. |
| Refresh | Search alarm output status. |

4.3.3 Abnormity

It includes five statuses: No SD card, capacity warning, SD card error, and disconnection and IP conflict. There are two interfaces for you reference. See Figure 4-27 through Figure 4-31.



Figure 4-27



Figure 4-28



Figure 4-29

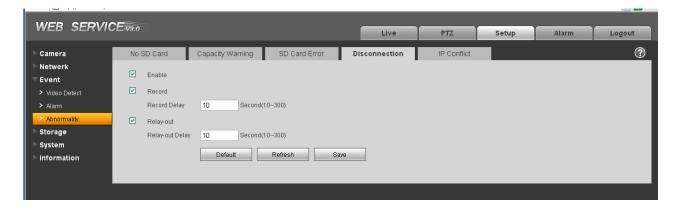


Figure 4-30

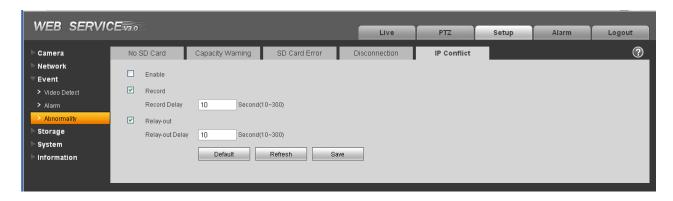


Figure 4-31

| Parameter | Function |
|--------------------|---|
| Event Type | - The abnormal events include: no disk, no space, disk error, net error, offline, IP conflict. |
| | Threshold: You can set the minimum percentage value here. The device can alarm when capacity is not sufficient. You need to draw a circle to enable this function. |
| Record | System auto activates channel to record once alarm occurs (For offline |
| Record | type only. See Figure 4-31.). |
| | You need to check the box to enable this function. |
| Record Delay | System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s. |
| Relay Out | The corresponding alarm output channel when alarm occurs. You need to check the box to enable this function. |
| Relay out Delay | The alarm output can delay for the specified time after alarm stops. The value ranges from 10s to 300s. |
| Send email | If you enable this function, system can send out email to alarm the specified user. |
| | This function is invalid when network is offline or IP conflict occurs. |

4.4 Storage

4.4.1 Record schedule and snapshot schedule

In these two interfaces, you can add or remove the schedule record/snapshot setup. See Figure 4-32. There are three record modes: general (auto), motion detect and alarm. There are six periods in one day. Please make sure you have enabled the corresponding record mode in the Setup->Storage->Conditions.

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 motion detect record/snapshot...
- Red color stands for the alarm record/snapshot.



Figure 4-32

4.4.2 Destination

The destination interface is shown as in Figure 4-33.

It is to set the storage mode of the network camera record file or snapshot pictures. There are two options: local/FTP. You can only select one mode. System can save according to the event types. It is corresponding to the three modes (general/motion/alarm)in the Schedule interface. Please check the box to enable the save functions.



Figure 4-33

Please refer to the following sheet for detailed information.

| Parameter | Function |
|---------------|--|
| Event Type | It includes: general, motion detect and alarm. |
| Local | It saved in the SD card. |
| FTP | It saved in the FTP server. |

The local interface is shown as in Figure 4-34. Here you can view local SD card or disk information. You can also operate the read-only, write-only, hot swap and format operation.



Figure 4-34

The FTP interface is shown as in Figure 4-35. You need to check the box to enable the FTP function. When network disconnect occurred or there is malfunction. Emergency storage can save the record/snapshot picture to the local SD card.

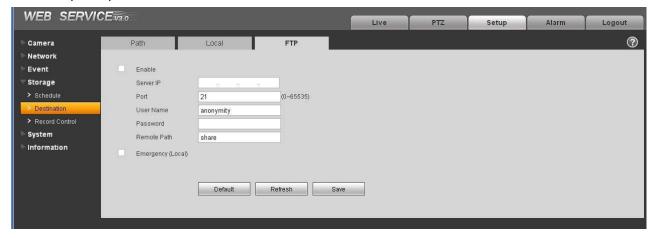


Figure 4-35

4.4.3 Record control

The record control interface is shown as in Figure 4-36.

| WEB SERVI | CE _{V3 0} | | | Live | PTZ | Setup | Alarm | Logout |
|-----------------------------|--------------------|------------------|--|------|-----|-------|-------|--------|
| Camera | Record Control | | | | | | | ? |
| Network | Pack Duration | 8 | Minute (1~120) | | | | | |
| Event Storage | Pre-event Record | 5 Overwrite | Second (0~5) | | | | | |
| > Schedule > Destination | Record Mode | Automatic Man | The state of the s | | | | | |
| > Record Control | Record Stream | Main Stream | _ | | | | | |
| System | | Default | Refresh Sav | /e | | | | |
| Information | | | | | | | | |
| | 100 | | | | | | | |

Figure 4-36

Please refer to the following sheet for detailed information.

| Parameter | Function | | |
|------------------|--|--|--|
| Pack Duration | Here you can select file size. Default setup is 8 minutes. | | |
| Pre-record | Please input pre-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/close. | | |
| Record stream | There are two options: main stream and sub stream. | | |

4.5 System

4.5.1 General

The general interface includes the local host setup and the date/time setup.

4.5.1.1 Local host

The local host interface is shown as in Figure 4-37.



Figure 4-37

| Parameter | Function |
|-------------------|--|
| Device No | It is to set device name. |
| Video Standard | This is to display video standard such as PAL. |
| Language | You can select the language from the dropdown list. Please note the device needs to reboot to get the modification activated. |

4.5.1.2 Date and time

The date and time interface is shown as in Figure 4-38.

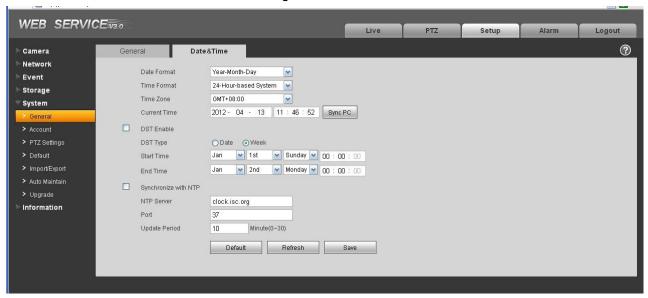


Figure 4-38

| Parameter | Function | | | |
|----------------|---|--|--|--|
| Date format | Here you can select date format from the dropdown list. | | | |
| Time Format | There are two options: 24-H and 12-H. | | | |
| Time zone | The time zone of the device. | | | |
| System time | It is to set system time. It becomes valid after you set. | | | |
| Sync PC | You can click this button to save the system time as your PC current time. | | | |
| DST | Here you can set day night save time begin time and end time. You can set according to the date format or according to the week format. | | | |
| NTP | You can check the box to enable NTP function. | | | |
| NTP server | You can set the time server address. | | | |
| 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. | | | |

4.5.2 Account

Note:

- For the character in the following user name or the user group name, system max supports 6-digits.
 The space in the front or at the end of the string is null. The valid string includes: character, number, and underline.
- The user amount is 20 and the group amount is 8 when the device is shipped out of the factory. 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.

4.5.2.1 User name

In this interface you can add/remove user and modify user name. See Figure 4-39.

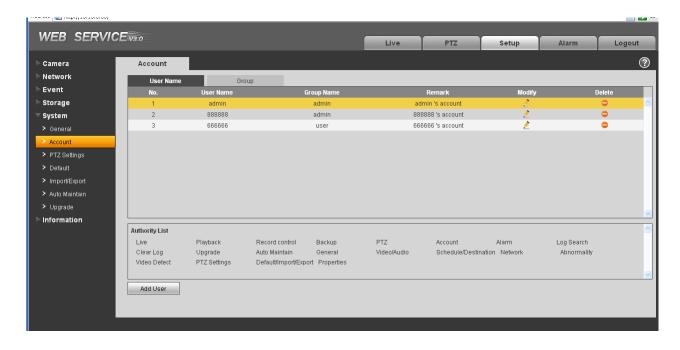


Figure 4-39

Add user: It is to add a name to group and set the user rights. See Figure 4-40.

There are four default users: admin/888888/666666 and hidden user "default". Except user 6666, other users have administrator right. The user 666666 can only have the monitor rights,.

Hidden user "default" is for system interior use only and can not be deleted. When there is no login user, hidden user "default" automatically login. You can set some rights such as monitor for this user so that you can view some channel view without login.

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.

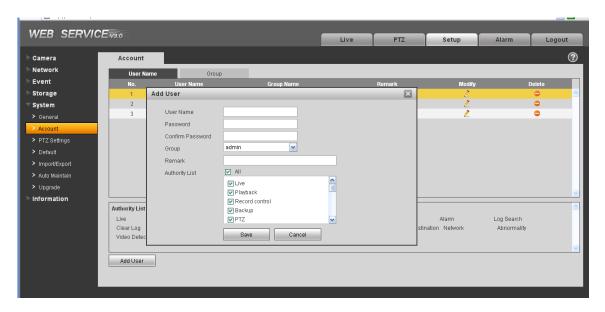


Figure 4-40

Modify user

It is to modify the user property, belonging group, password and rights. See Figure 4-41.

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 OK button to save.

Please note, the password ranges from 1-digit to 6-digit. It shall include the number only. For the user of the account rights, he can modify the password of other users.

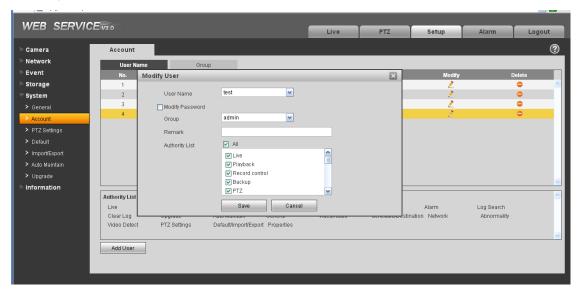


Figure 4-41

4.5.2.2 Group

The group management interface can add/remove group, modify group password and etc. The interface is shown as in Figure 4-42.

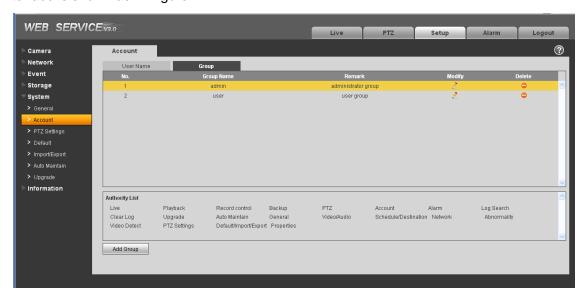


Figure 4-42

Add group: It is to add group and set its corresponding rights. See Figure 4-43.

Please input the group name and then check the box to select the corresponding rights. It includes: shutdown/reboot device, live view, record control, PTZ control and etc.

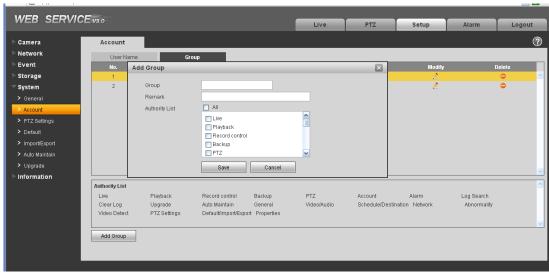
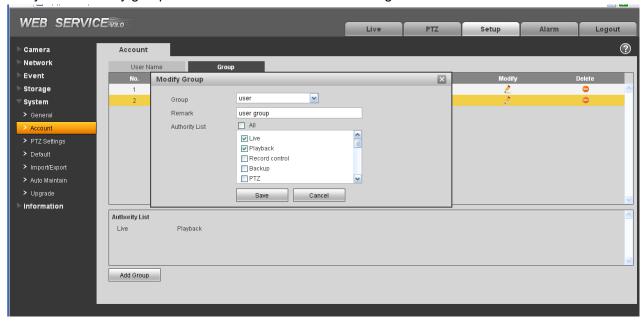


Figure 4-43

Modify group

Click the modify group button, you can see an interface is shown as in Figure 4-44.

Here you can modify group information such as remarks and rights.



4.5.3 Default

The default setup interface is shown as in Figure 4-46.

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



Figure 4-46

4.5.4 Import/Export

The interface is shown as in Figure 4-47.



Figure 4-47

| 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. |

4.5.5 Auto maintenance

The auto maintenance interface is shown as in Figure 4-48.

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 4-48

4.5.6 Upgrade

The upgrade interface is shown as in Figure 4-49.

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

Important

Improper upgrade program may result in device malfunction!

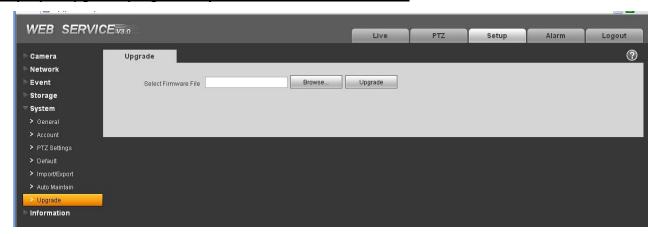


Figure 4-49

4.6 Information

4.6.1 Version

The version interface is shown as in Figure 4-50.

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



Figure 4-50

4.6.2 Log

Here you can view system log. See Figure 4-51.

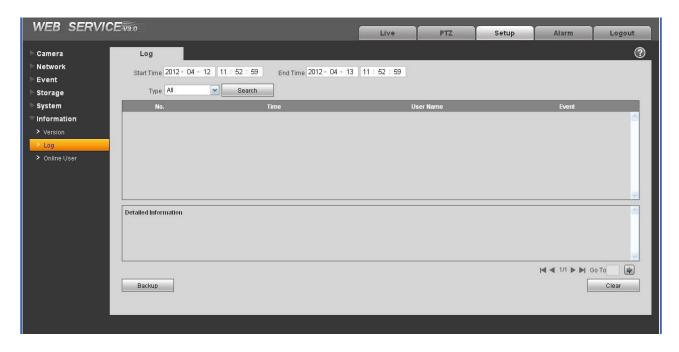


Figure 4-51

Please refer to the following sheet for log parameter information.

| Parameter | Function | |
|----------------------|---|--|
| Туре | Log types include: system operation, configuration operation, data operation, event operation, record operation, user management, log clear. | |
| 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 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. | |

4.6.3 Online User

The online user interface is shown as in Figure 4-52.

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

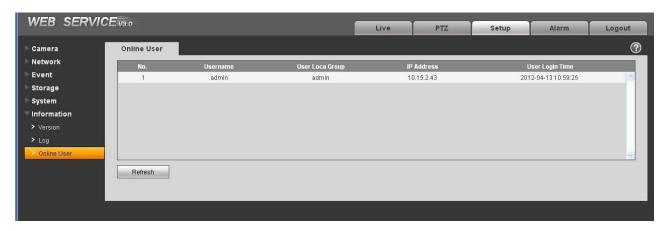


Figure 4-52

5 Alarm

Click alarm function, you can see an interface is shown as in Figure 5-1. Here you can set device alarm type and alarm sound setup.



Figure 5-1 Alarm

Please refer to the following sheet for detailed information.

| Type | Parameter | Function |
|----------------|--------------------|--|
| Alarm | Motion detection | System alarms when motion detection alarm |
| type | | occurs, |
| | Disk full | System alarms when disk is full. |
| | HDD malfunction | System generates an alarm when HDD is malfunction. |
| | Camera masking | System alarms when camera is viciously masking. |
| | External alarm | Alarm input device sends out alarm. |
| Operation | Prompt | System automatically pops up alarm dialogue box. |
| Alarm audio | Audio | When alarm occurs, system auto generates alarm audio. The audio supports customized setup. |
| | Path | Here you can specify alarm sound file. |

6 Log out

Click log out button, system goes back to log in interface. See Figure 6-1.

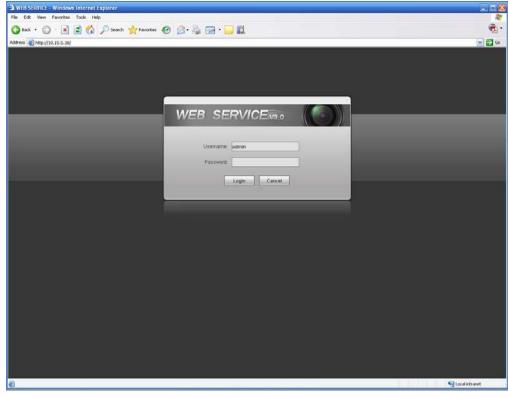


Figure 6-1 Logout

Note:

- This manual is for reference only. Slight difference may be found in user interface.
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