Speed Dome Web3.0 Operation Manual

Version 3.0.0

Table of Contents

Important

- **The following functions are for reference only. Some series products may not support all the functions listed below.**
- **Usually we recommend IE 7 or higher version. For those versions below IE 7, it may not support the operation of some functions.**

1 Network Connection

This series speed dome product supports 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 speed dome has connected to the network properly.
- Speed dome 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 ***.***.***.***(* speed dome address) to check connection is OK or not.

2 Main Interface Introduction

2.1 Log in

Open IE and input speed dome address in the address bar.
For example, if your device IP is 192.168.1.108, then please input http:// 192.168.1.108 in IE address bar. See Figure 2-1.

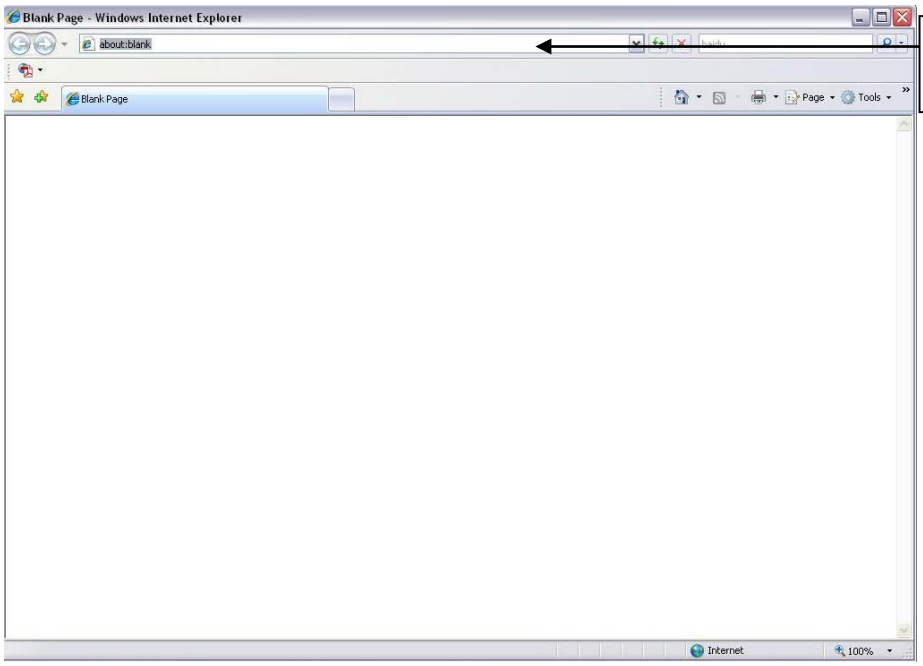

Figure 2-1 IE

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.

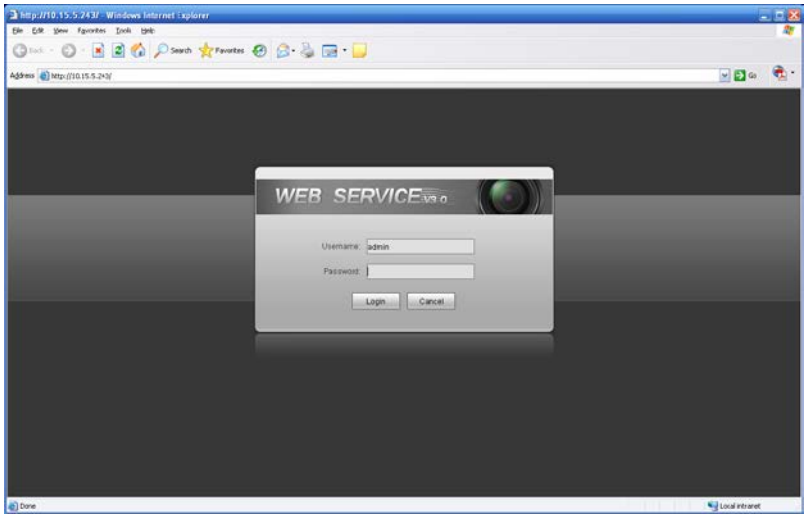

Figure 2-2 Login Interface

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.

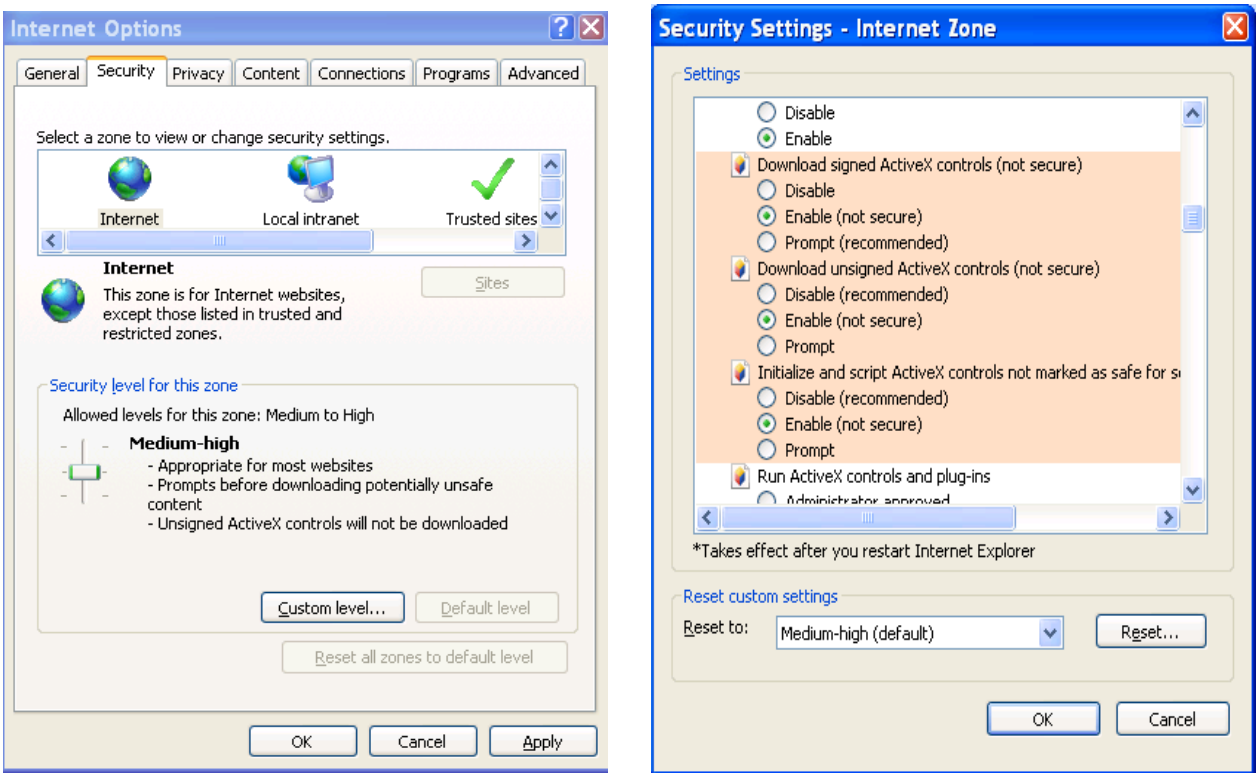

Figure 2-3 Security Settings

2.2 Live Interface

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

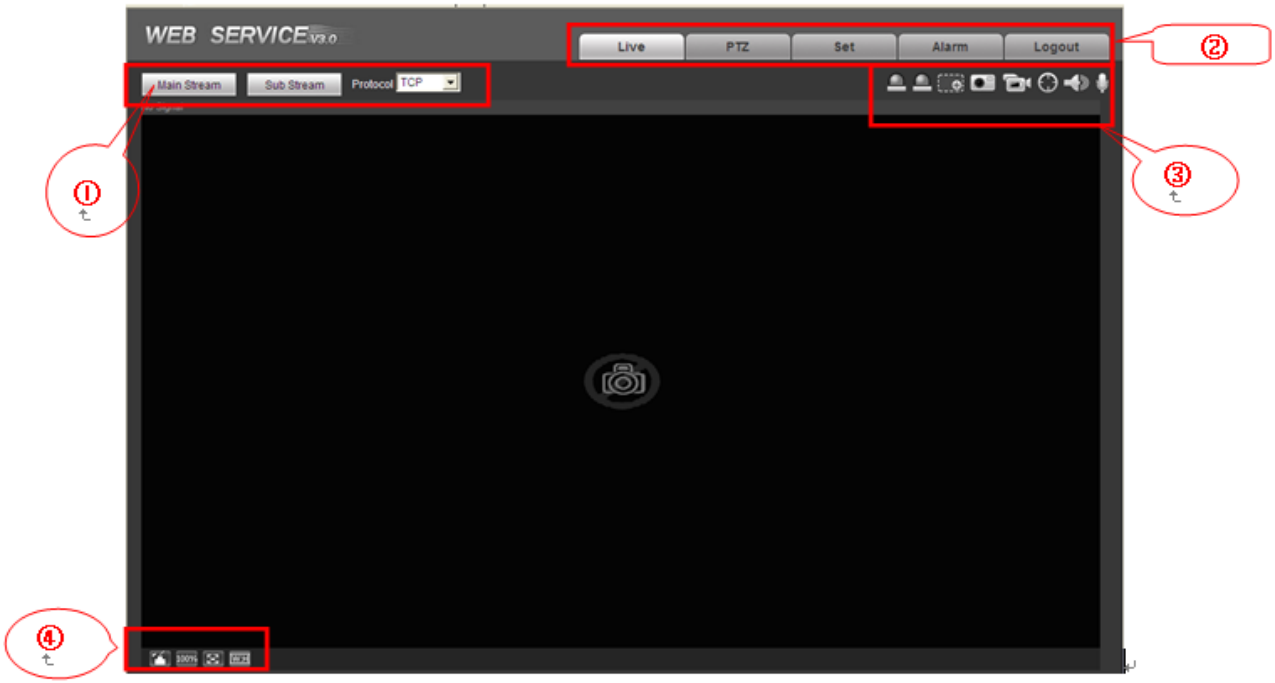

Figure 2-4 Live Interface

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

Please refer to the following sheet for detailed information.

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.

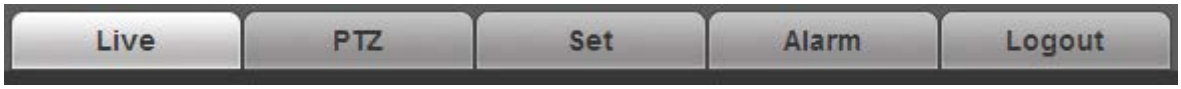

Figure 2-6 System Menu

2.5 Video Window Function Option

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

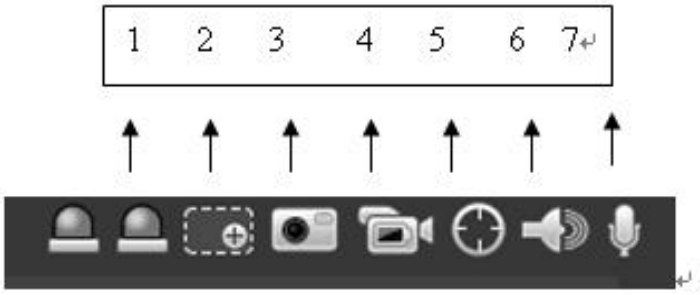

Figure 2-7 Video Window Function

Please refer to the following sheet for detailed information.

SN	Parameter	Function
1	Alarm output	Click it to generate an alarm output. There are two alarm output icons since this series product supports two relay output. **Please note the interface may vary due to different series products.**
2	Digital zoom	Click this button and then left drag the mouse in the zone to zoom in. Right click mouse system restores original status.

3	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.
4	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.
5	Audio output	Turn on or off audio when you are monitoring.
6	Bidirectional talk	Click it to begin audio talk. You can go to Setup->Camera->Audio to set bidirectional talk mode.
7	Manual track	Click it and then left drag the mouse in the video to select a zone. The device can auto intelligently track the object in the specified area. Please note, you need to go to IVS->Global setup to enable IVS function first. See Chapter 4.2.1 Global Setup.

2.6 Video Window Setup

The interface is shown as in Figure 2-8.

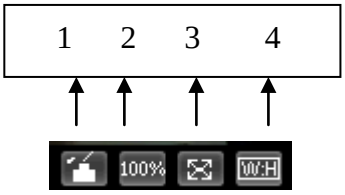

Figure 2-8 Video Window Setup

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.

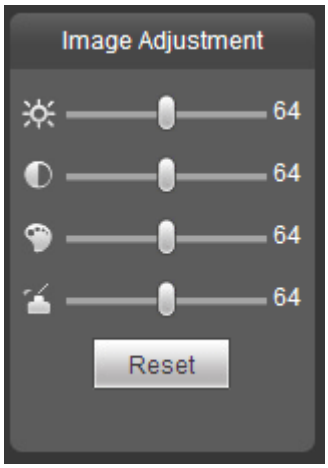

Figure 2-9

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 apply to WEB end only.
		It is to adjust monitor video contrast ness.	
		It is to adjust monitor video saturation.	
		It is to adjust monitor video hue.	
	Reset	Restore brightness, contrastness saturation and hue to system default setup.	

3 PTZ Control

Before PTZ operation, please make sure you have properly set PTZ protocol. (Please go to Setup->System->PTZ to set.).

Here you can view direction keys, speed, zoom, focus, iris, preset, tour, pan, scan, pattern, aux close, PTZ setup button and 3D positioning button. See Figure 3-1.

- PTZ direction: PTZ supports eight directions: left/right/up/down/upper left/upper right/bottom left/bottom right.
- Speed: The step 8 speed is faster than step 1.

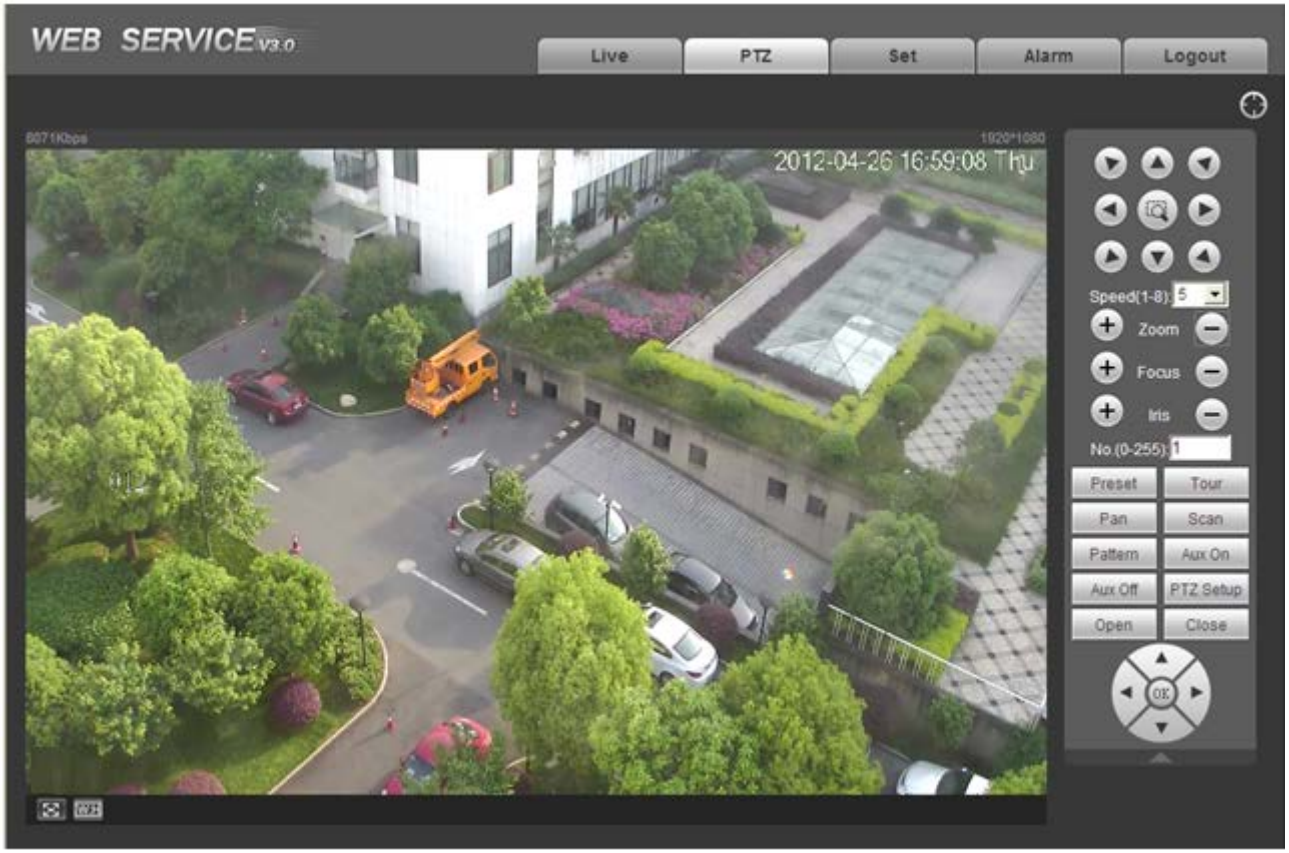

Figure 3-1 PTZ Interface

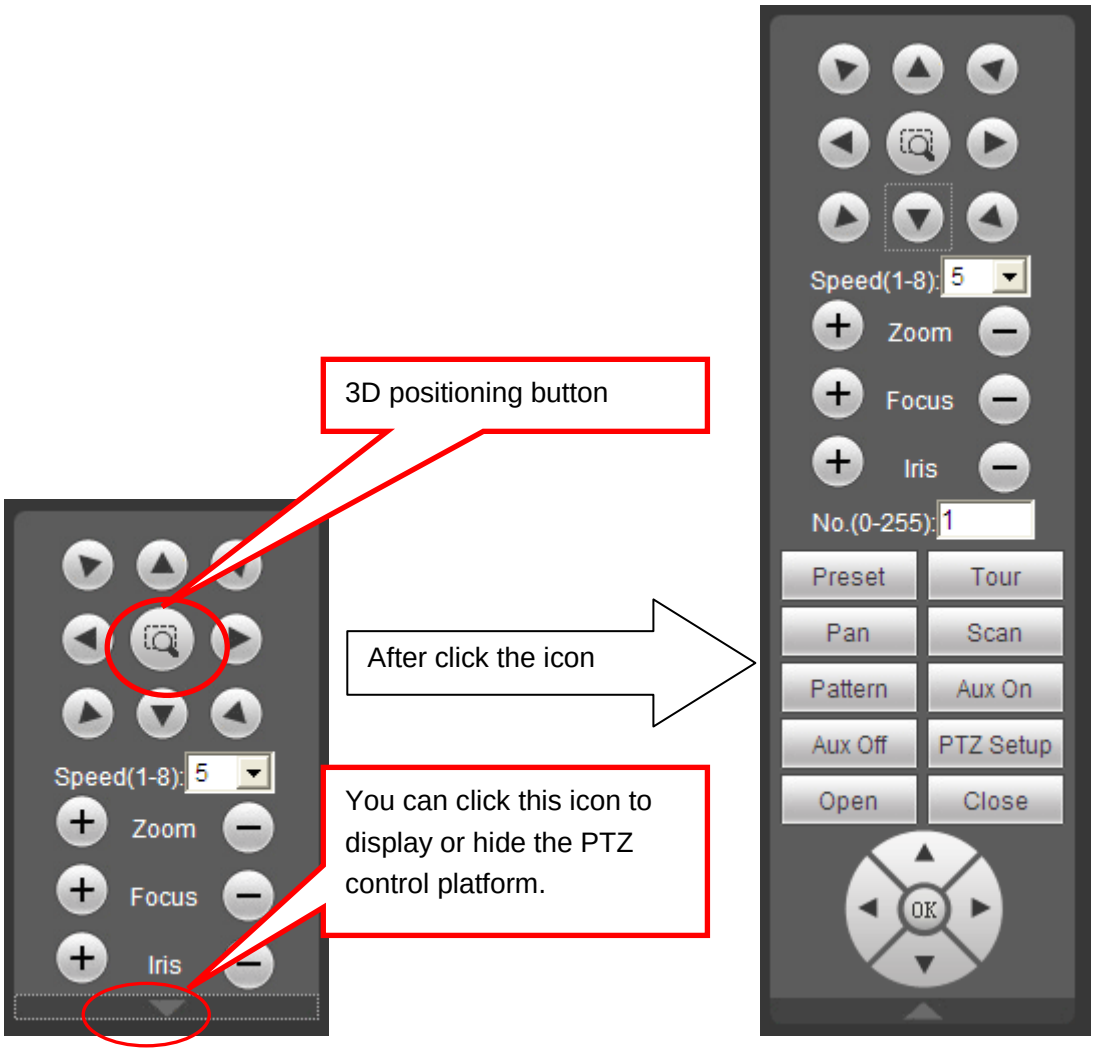

Figure 3-2 PTZ Control Interface

Click PTZ set button, the interface is shown as in Figure 3-3.

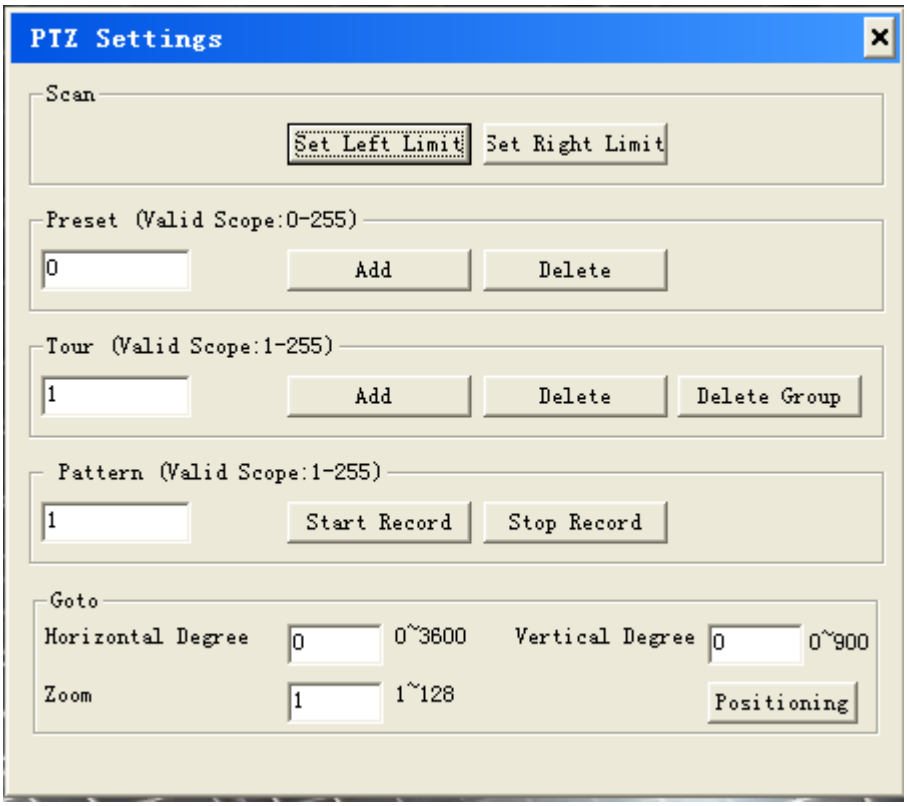

Figure 3-3 PTZ Setup

Please refer to the following sheet for PTZ setup information.

Parameter	Function
Scan	● Move the device to you desired location and then click left limit button. ● Then move the device again and then click right limit button to set a right limit.
Preset	Use direction keys to move the device to your desired location and then input preset value. Click add button, you have set one preset. The preset value ranges from 1 to 80. (It may vary due to different protocols.)
Tour	● Input auto tour value and preset value. Click add button, you have added one preset in the tour. ● Repeat the above procedures you can add more presets in one tour. ● Or you can click delete button to remove one preset from the tour. The tour value ranges from 1 to 8. (It may vary due to different protocols.)

Parameter	Function
Pattern	You can input pattern value and then click start record button to begin PTZ movement. Please go back to Figure 3-1 to implement operation. Then you can click stop record button in Figure 3-3. Now you have set one pattern.
Assistant	The assistant items include: BLC, Digital zoom, night vision, camera brightness, flip. You can select one option and then click start or stop button.
Go to	It is the accurate position function. You can control the PTZ horizontal angle, tilt angle, and speed dome zoom speed. **Please note some series PTZ does not support this function.**

4 Setup

4.1 Camera

4.1.1 Video

4.1.1.1 Video bit stream

The video bit stream interface is shown as below. See Figure 4-1.

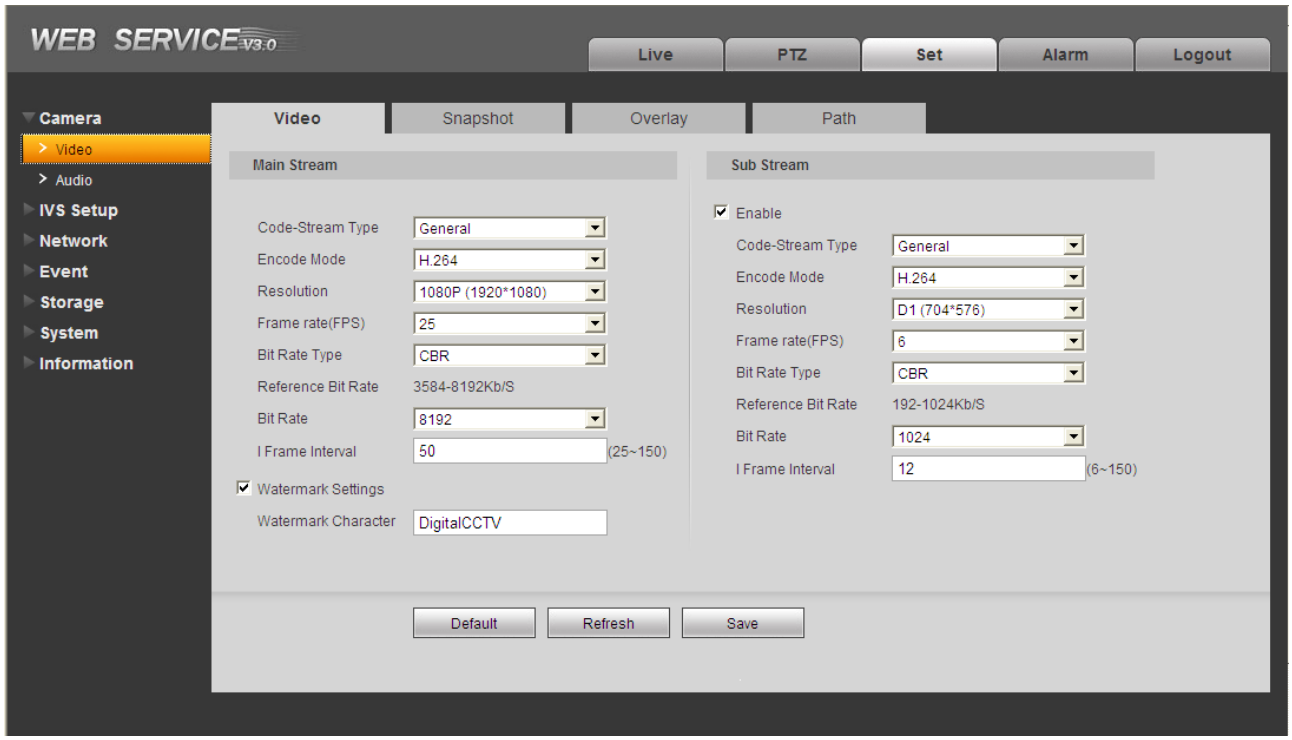

Figure 4-1

Please refer to the following sheet for detailed information.

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. ● 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. ● 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 a relative fixed value. It may change a little. In dynamic video, system needs to low frame rate or video quality to guarantee the value. • It is the max value in VBR mode. • Please refer to recommended 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.
	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 a relative fixed value. It may change a little. In dynamic video, system needs to low frame rate or video quality to guarantee the value. • It is the max value in VBR mode. • Please refer to recommended 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.

4.1.1.2 Snapshot

The snapshot interface is shown as in Figure 4-2.

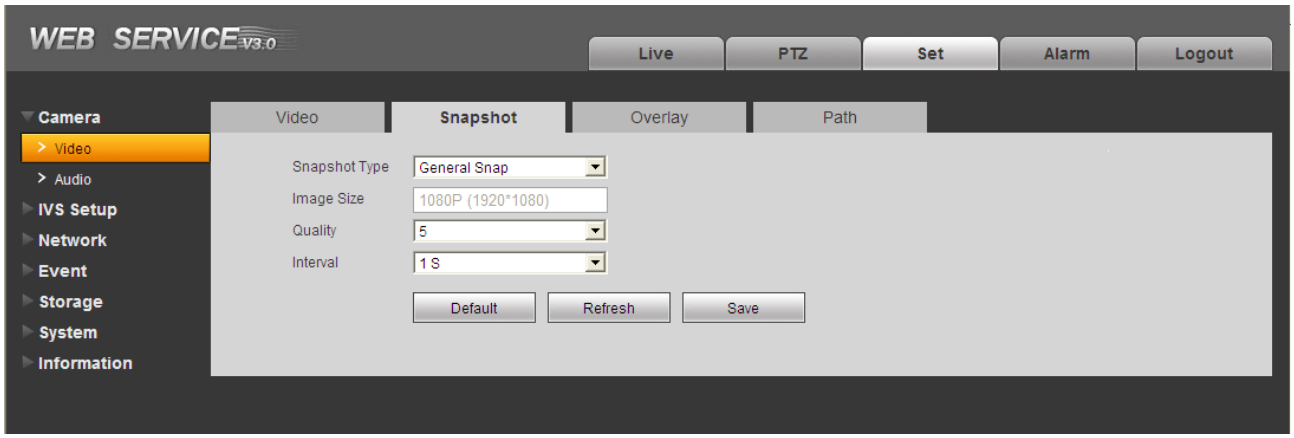

Figure 4-2

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.

4.1.1.3 Video Overlay

The video overlay interface is shown as in Figure 4-3.

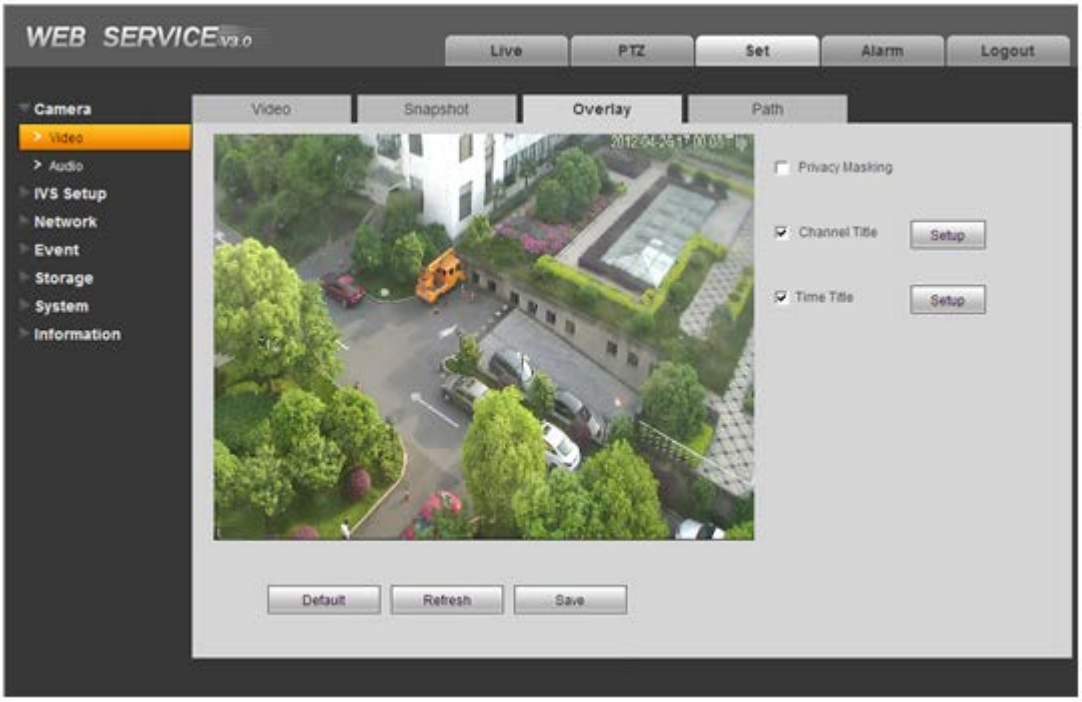

Figure 4-3

Please refer to the following sheet for detailed information.

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.

4.1.1.4 Path

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

Here you can set snap image saved path (in the preview interface) and the record storage path (in the preview interface).The default setup is C:\PictureDownload.

Please click the Save button to save current setup.

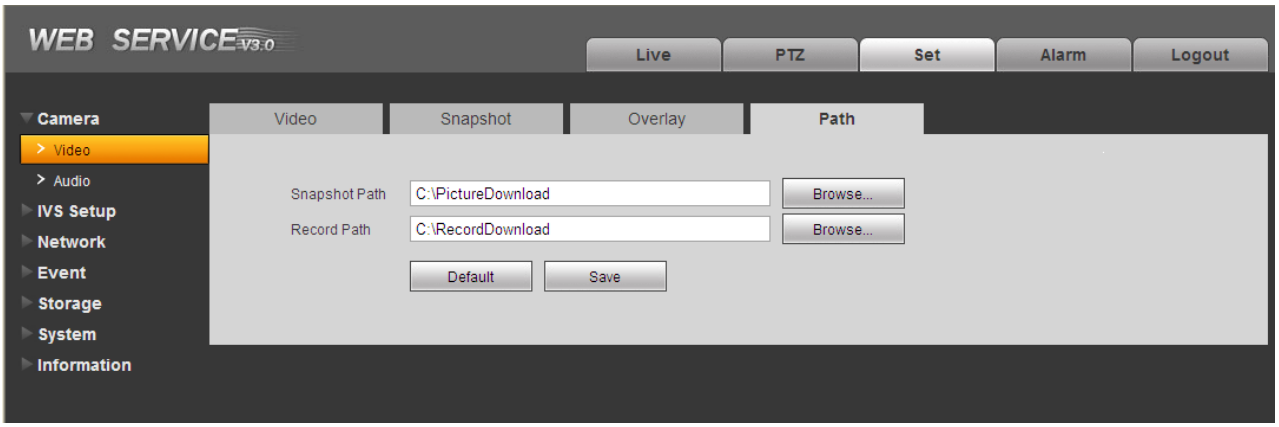

Figure 4-4

4.1.2 Audio

The audio interface is shown as below. See Figure 4-5.

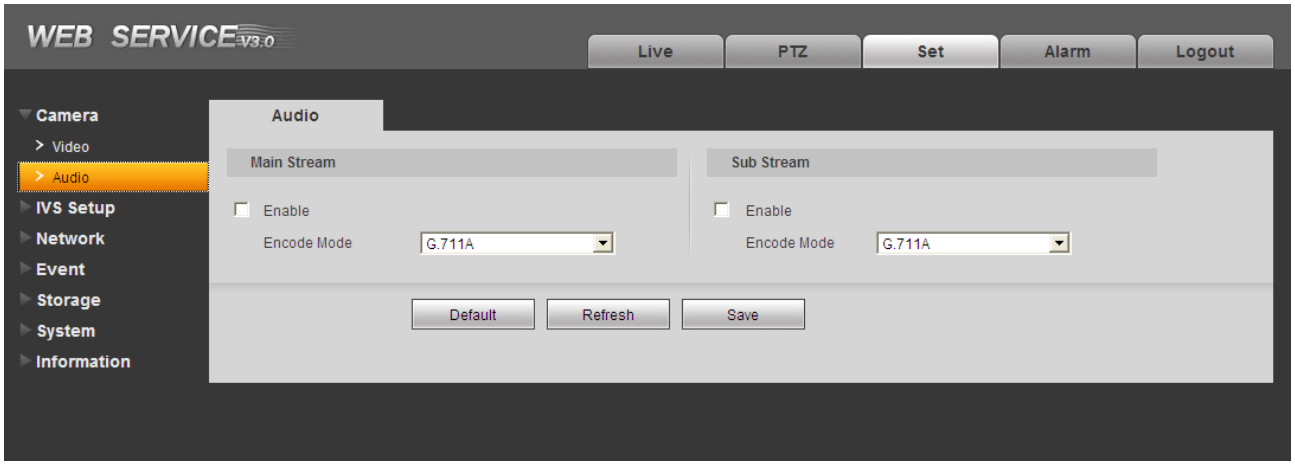

Figure 4-5

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 IVS

4.2.1 Global Setup

The global setup interface is shown as in Figure 4-6.

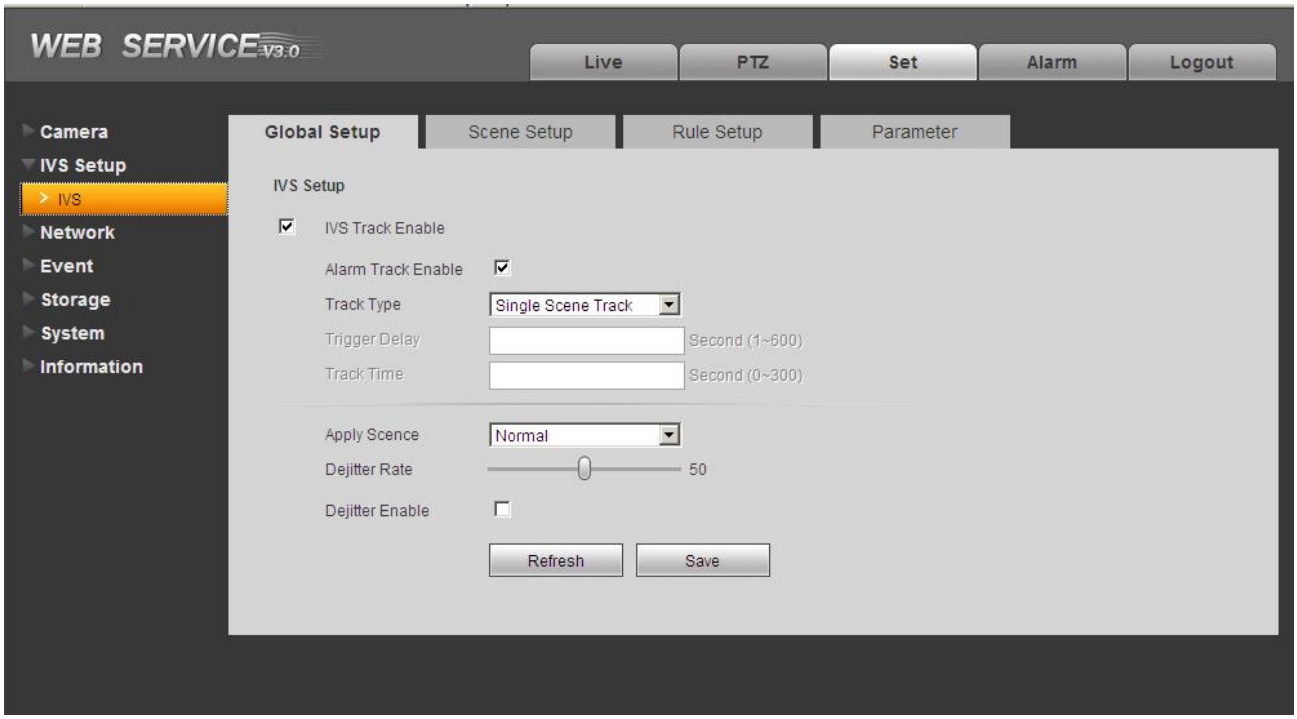

Figure 4-6

Please refer to the following sheet for detailed information.

Parameter	Function
IVS track enable	Check the box here to enable this IVS function.
Alarm track enable	Check the box, system can enable auto track when the corresponding alarm occurred. The alarm output is still proper if you do not check the box here. System will not enable auto track when the corresponding alarm occurred

Parameter	Function
Track type	It includes: panorama track, single scene track and multiple-scene track. • Panorama track: Realize the intelligent track of current monitor video after you enabled the preview function. • Single scene track: Realize the intelligent track of one scene. • Multiple-scene track: It is to realize the intelligent track of several scenes and the scenes support tour function.
Track dealy	After system recognized the tracing object, it can delay a period of time to enable the alarm track. **Please note it is for panorama track mode only.**
Track time	You can set the track time after the alarm track is enabled. **Please note it is for panorama track mode only.**
Appply scene	The default setup is normal.
De-jitter	Here you can set device de-jitter rate.
De-jitter enable	Check the box here to enable de-jitter module.

4.2.2 Scene Setup

The scene setup is shown as in Figure 4-7.

Figure 4-7

Please refer to the following sheet for detailed information.

Parameter	Function
Add scene	Click it to add a scene.
Scene setup	Click it to set current monitor video as the corresponding scene and get a number.
Preview scene	Click it to preview the selected scene.
Track time	Here you can set the max track time for the moving object.
Zoom	Click ⊕ to zoom in and click ⊖ to zoom out.
Set track rate	You can select the rate via the zoom setup. Click Set Track Rate button to set current rate as the initial track speed for selected scene.
PTZ	Click PTZ button to adjust scene position.
Speed	It is to set PTZ movement speed. The value ranges from 1 to 8.
Limit track	Check the box here to set limit track of current scene. You can use the PTZ to set the up/down/left/right limit of current scene. The operation is similar to Scene setup and Preview scene.

4.2.2.1 Single Scene Track

In Figure 4-6, select the single scene track from the track type list, you can see the single scene track interface is shown as in Figure 4-8.

Here you can select one item from the No. list to view one monitor scene.

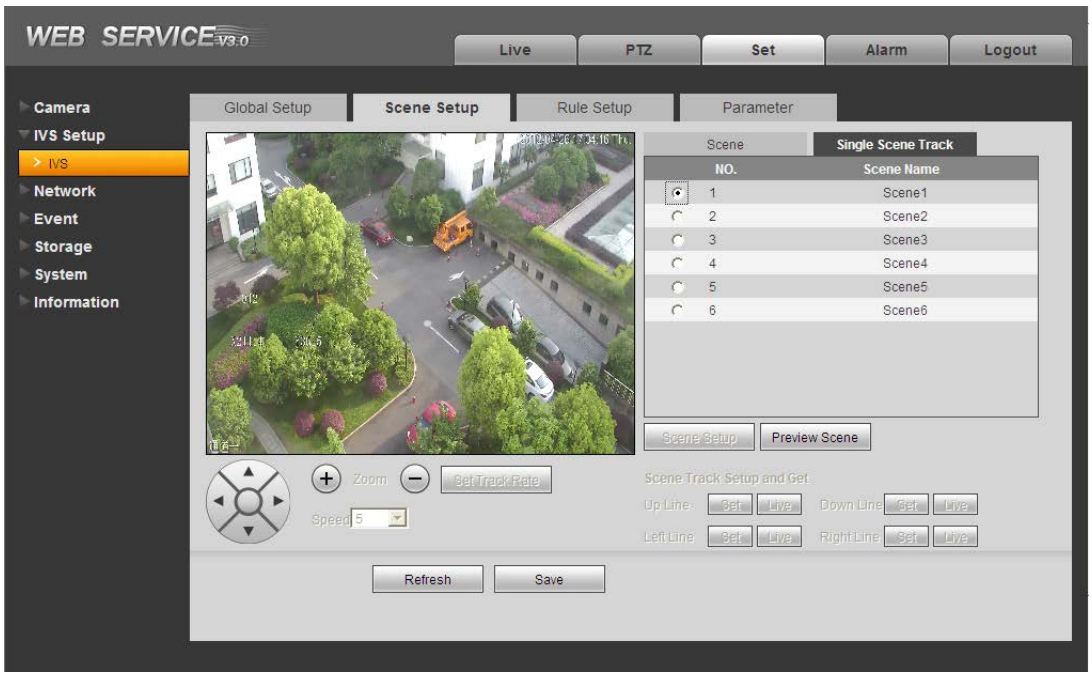

Figure 4-8

4.2.2.2 Multiple-scene track

In Figure 4-6, select the Multiple-scene track from the track type list, you can see the multiple-scene track interface is shown as in Figure 4-9.

Figure 4-9

In Figure 4-9, click Add scene button you can set tour point during the scene tour process. Move the mouse to the Scene name list; you can select several scenes as a tour. Move the mouse to the Stay time, you can set stay time period.

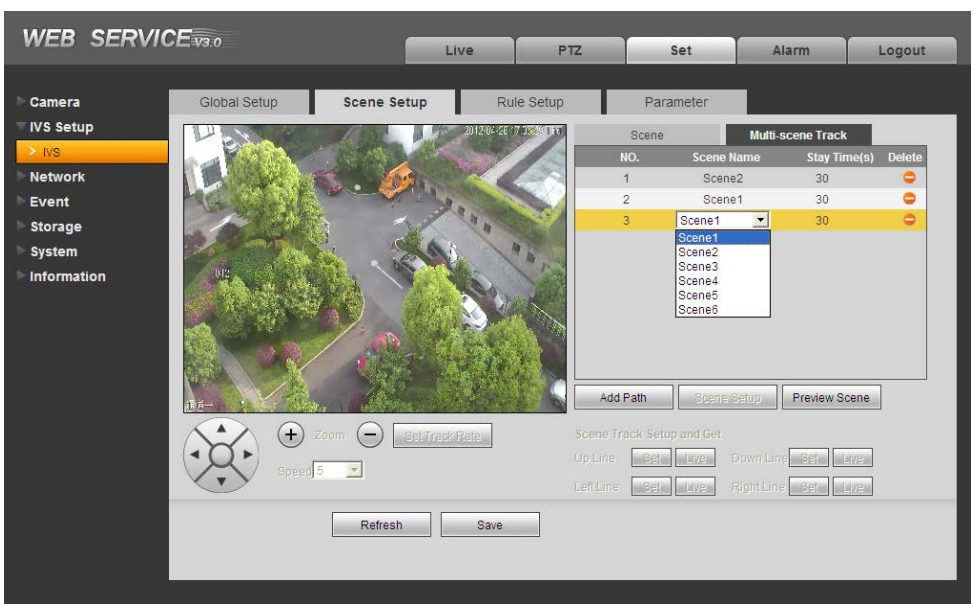

Figure 4-10

4.2.3 Rule Setup

The rule setup interface is shown as in Figure 4-11.

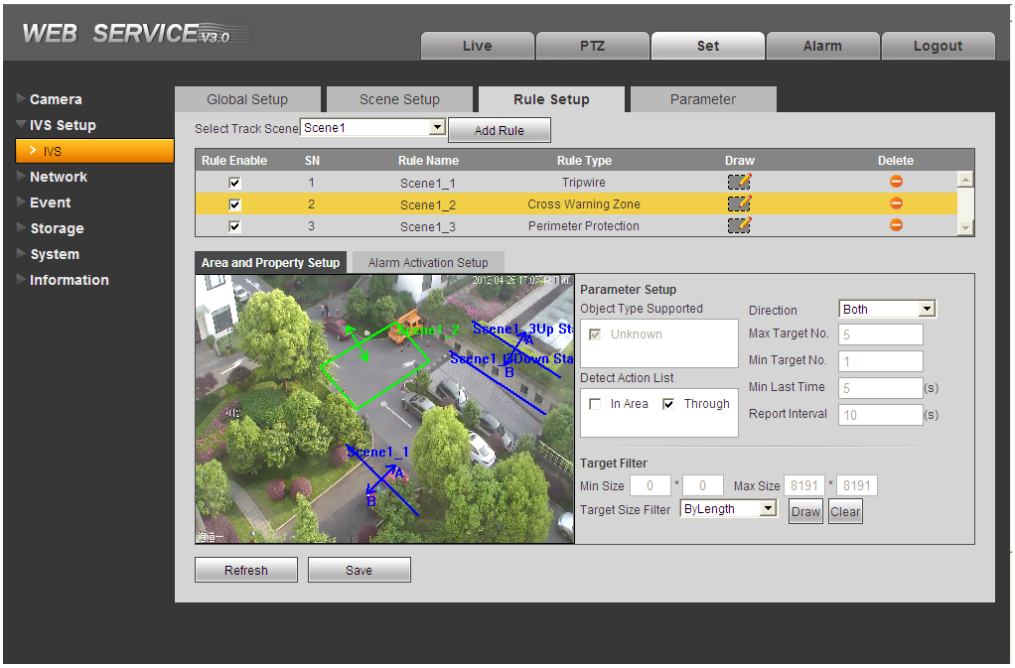

Figure 4-11

Please refer to the following sheet for detailed informaiton.

Parameter	Function
Select track scene.	You can select the scene from the dropdown list so that you can add the corresponding rule.
Add rule	Click it to add a rule to the selected scene.
Rule enable	Check the box here to enable the rule.
Rule name	Move you mouse to the rule name column to set a name.
Rule type	Move you mouse to the Rule type column to set the rule type. The option includes: Tripwire/Cross warning zone/Perimeter protection/Loiter detection/Abandoned object detection/Missing object detection/Illegal parking/Fast Moving.
Draw rule	Click button to draw current rule.
Delete rule	Click button to delete current rule.

4.2.3.1 Tripwire

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

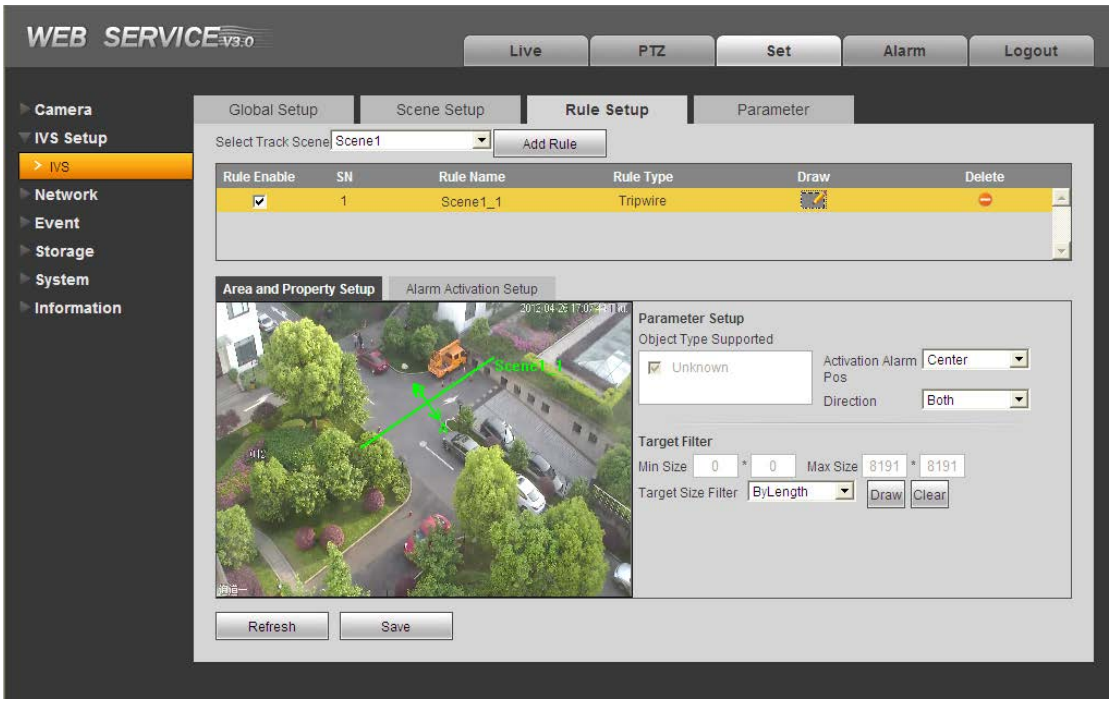

Figure 4-12

Please refer to the following sheet for detailed informaiton.

Parameter	Function
Object type supported	You can select an object type here. The default setup is unknown.
Activate alarm position	Here you can set the alarm activation position of the target frame. There are five options: Centre/Left centre/Right centre/Top centre/Bottom centre.
Direction	It is to set tripwire direction. The option includes: From left to right/From right to left/Both.
Target filter	Click button Draw, you can set the target filter model in this scene for this rule. Click the button Clear, you can remove selected target filter model.

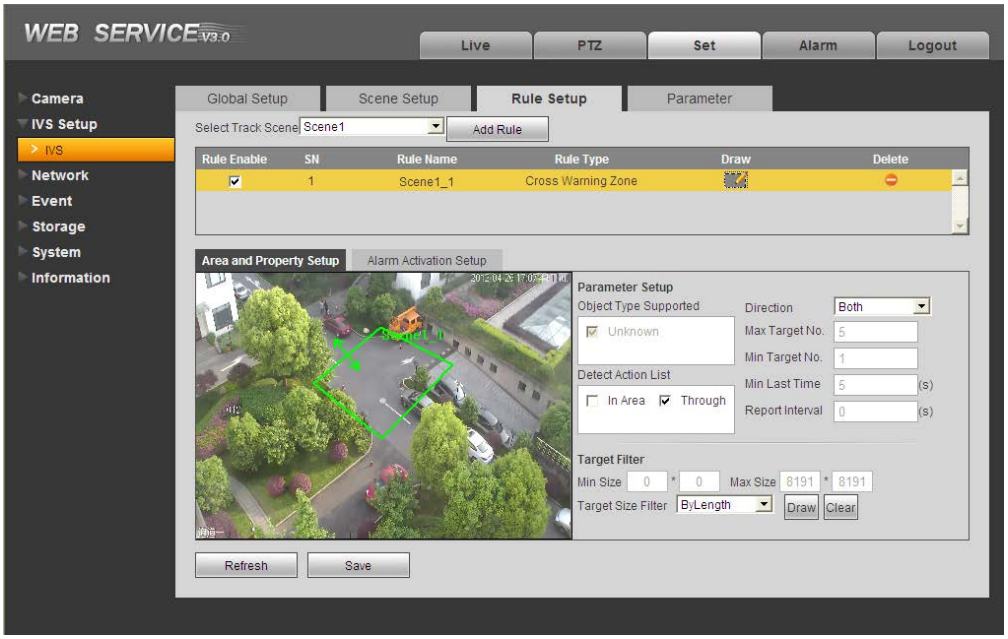

Figure 4-13

4.2.3.2 Cross Warning Zone

The cross warning zone interface is shown as in Figure 4-14.

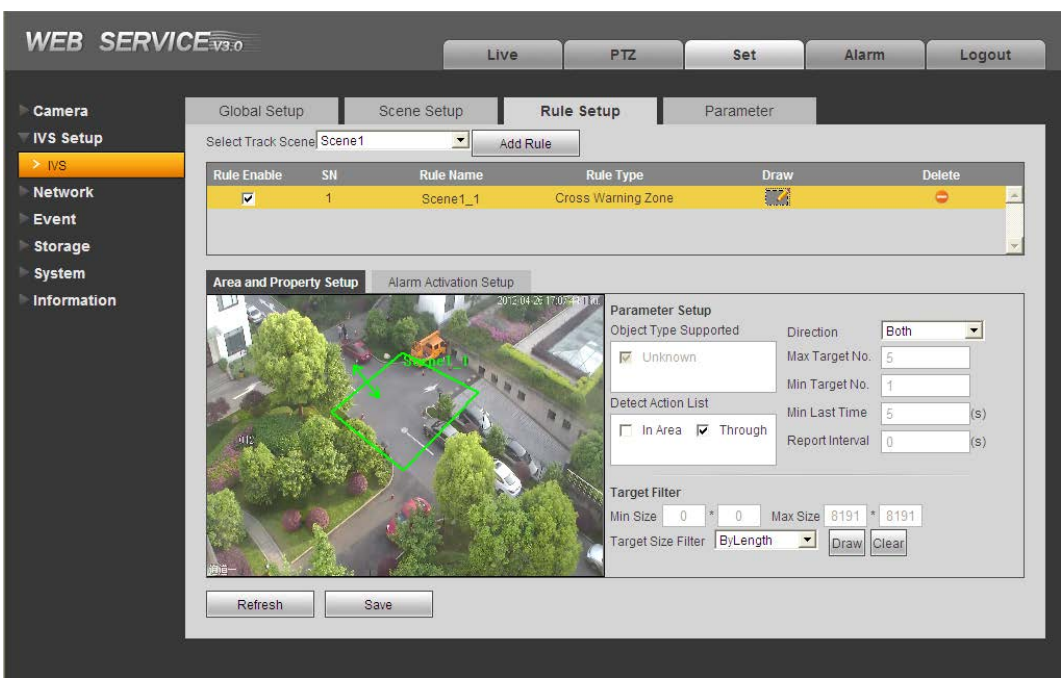

Figure 4-14

Please refer to the following sheet for detailed informaiton.

Parameter	Function
Object type supported	You can select an object type here. The default setup is unknown.
Detect action list	● In area: When the tracking object is in the detect zone and the stay time is more than the time threshold you set here, system can activate an alarm. ● Through area: System can generate an alarm when the tracking object is crossing the limit you set here.
Direction	It is for the Through area option in the Detect action list item. It is to set the cross direction. The option includes: in/out/both (in&out)
Max target No.	It is for the In area option in the Detect action list item. It is to set the alarm activation amount in the zone. System will not generate an alarm when the object amount in the zone is more than the threshold you set here.
Min target No.	It is for the In area option in the Detect action list item. It is to set the alarm activation amount in the zone. System will not generate an alarm when the object amount in the zone is less than the threshold you set here.
Min last time	It is for the In area option in the Detect action list item. Here is to set the min time between the target in the zone and an alarm activation occurrence.
Report interval	It is for the In area option in the Detect action list item. It is to set alarm period. System just alarms once if the value is 0 here.
Target size filter	Click button  , you can set the target filter model in this scene. Click the button  , you can remove selected target filter model.

4.2.3.3 Perimeter Protection

The permiter protection interface is shown as in Figure 4-15.

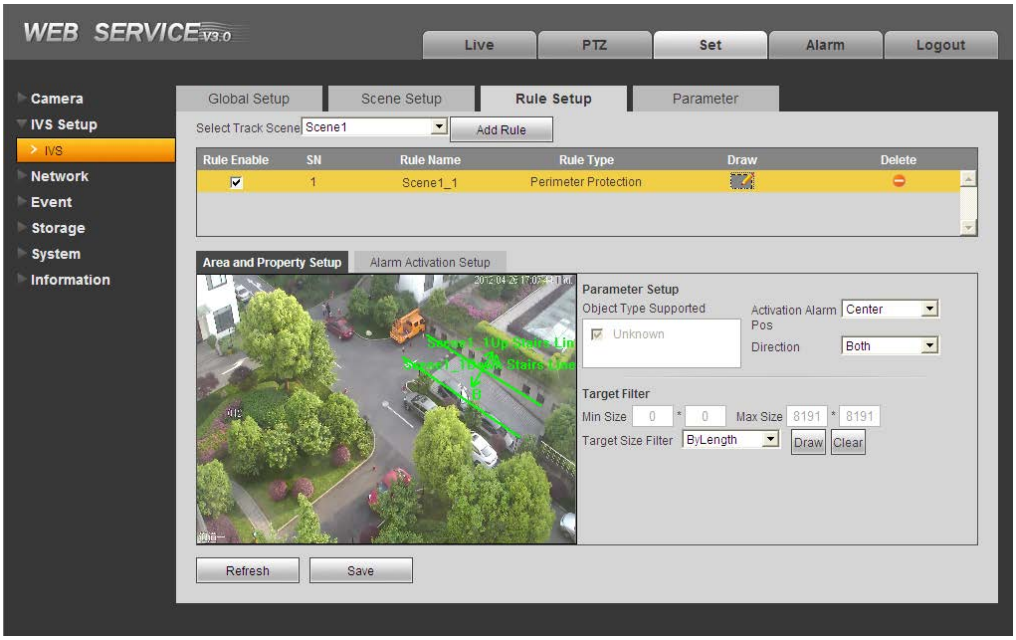

Figure 4-15

Please refer to the following sheet for detailed informaiton.

Parameter	Function
Object type supported	You can select an object type here. The default setup is unknown.
Activate alarm position	Here you can set the alarm activation position of the target frame. There are five options: Centre/Left centre/Right centre/Top centre/Bottom centre.
Direction	It is to set cross perimeter direction. The option includes: From left to right/From right to left/Both.
Target size filter	Click button Draw, you can set the target filter model in this scene. Click the button Clear, you can remove selected target filter model.

4.2.3.4 Loitering Detection

The lointering detection interface is shown as in Figure 4-16.

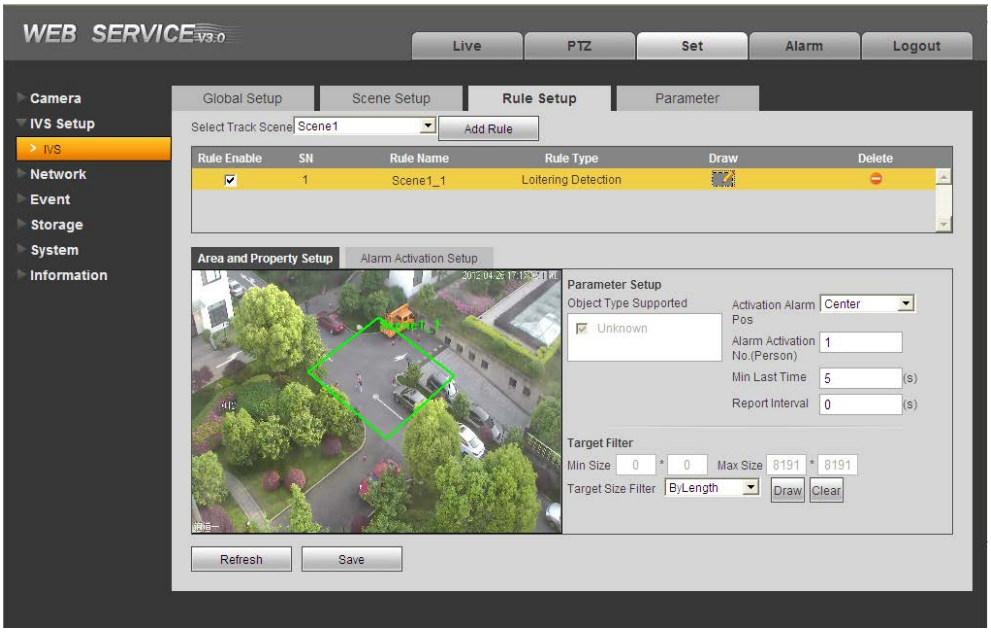

Figure 4-16

Please refer to the following sheet for detailed informaiton.

Parameter	Function
Object type supported	You can select an object type here. The default setup is unknown.
Activate alarm position	Here you can set the alarm activation position of the target frame. There are five options: Centre/Left centre/Right centre/Top centre/Bottom centre.
Alarm activation number (Person)	Here you can set the alarm activation amount. System will not generate an alarm if the person amount is below the threshed you set here.
Min last time	Here is to set the min time between the target in the zone and an alarm activation occurrence.
Report interval	It is to set alarm period. System just alarms once if the value is 0 here.
Target size filter	Click button Draw, you can set the target filter model in this scene. Click the button Clear, you can remove selected target filter model.

4.2.3.5 Abandoned Object Detection

The abandoned object detection interface is shown as in Figure 4-17.

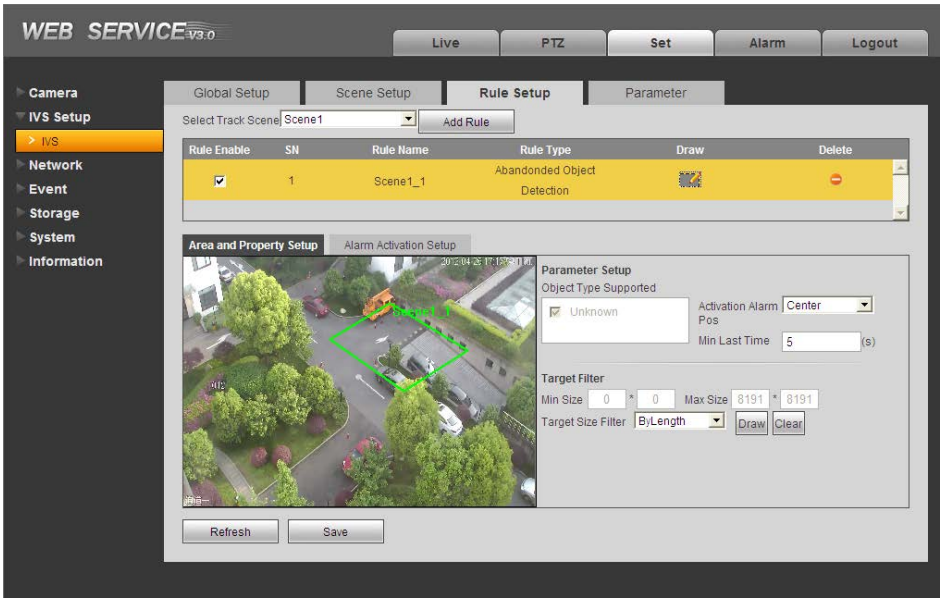

Figure 4-17

Please refer to the following sheet for detailed informaiton.

Parameter	Function
Object type supported	You can select an object type here. The default setup is unknown.
Activate alarm position	Here you can set the alarm activation position of the target frame. There are five options: Centre/Left centre/Right centre/Top centre/Bottom centre.
Min last time	It is to set the min time between the abandoned object occurrence and alarm activation.
Target size filter	Click button Draw, you can set the target filter model in this scene. Click the button Clear, you can remove selected target filter model.

4.2.3.6 Missing Object Detection

The missing object detection interface is shown as below. See Figure 4-18.

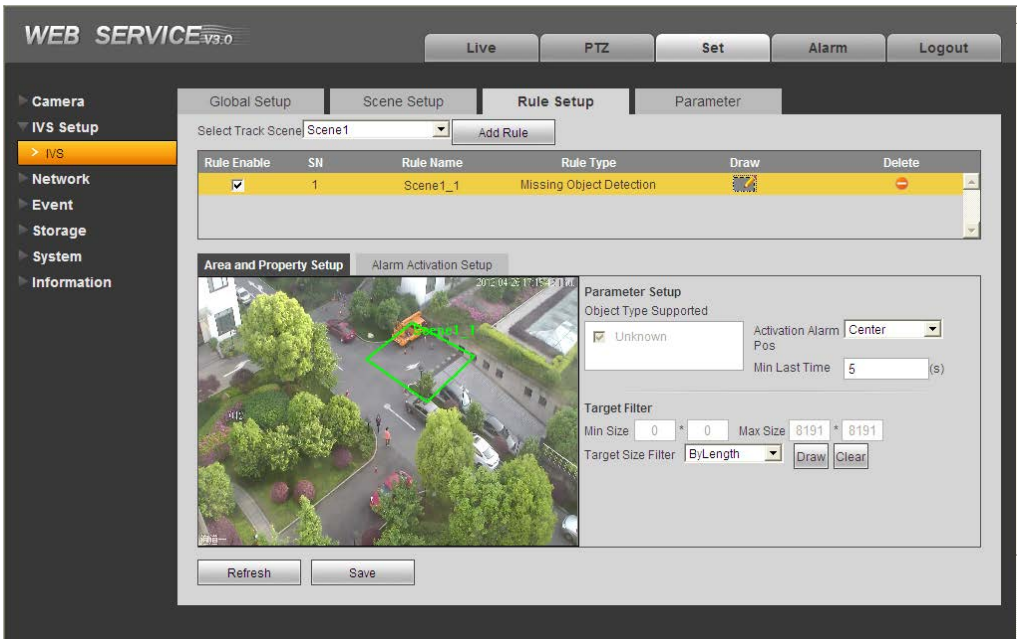

Figure 4-18

Please refer to the following sheet for detailed informaiton.

Parameter	Function
Object type supported	You can select an object type here. The default setup is unknown.
Activate alarm position	Here you can set the alarm activation position of the target frame. There are five options: Centre/Left centre/Right centre/Top centre/Bottom centre.
Min last time	It is to set the min time between the missing object occurrence and alarm activation.
Target size filter	Click button Draw, you can set the target filter model in this scene. Click the button Clear, you can remove selected target filter model.

4.2.3.7 Illegal Parking

The illegal parking interface is shown as in Figure 4-19.

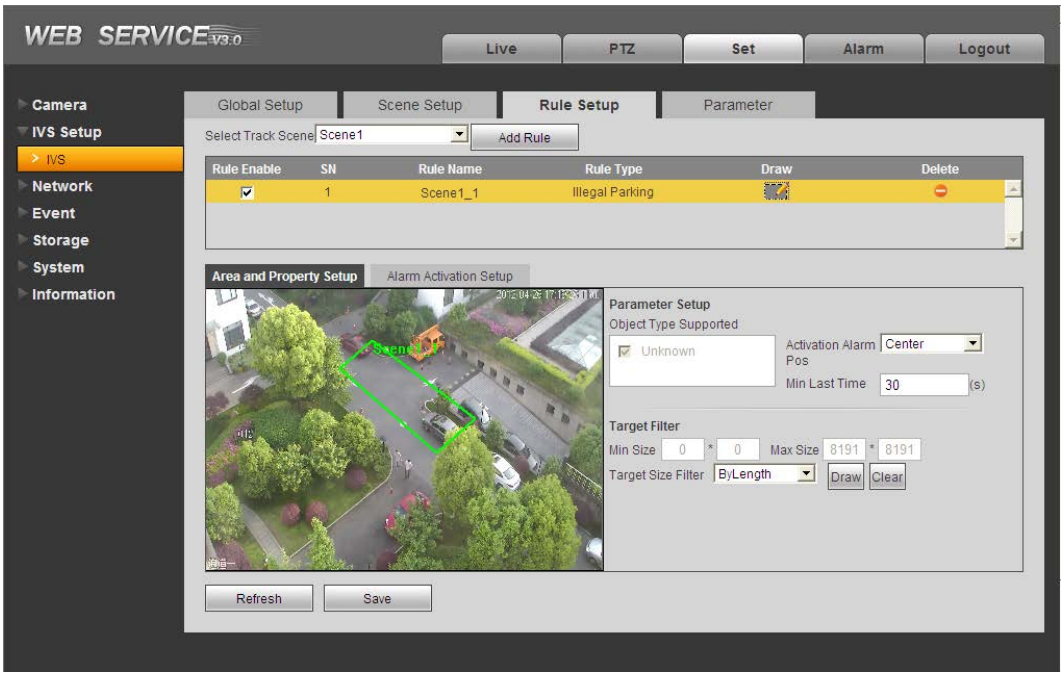

Figure 4-19

Please refer to the following sheet for detailed informaiton.

Parameter	Function
Object type supported	You can select an object type here. The default setup is unknown.
Activate alarm position	Here you can set the alarm activation position of the target frame. There are five options: Centre/Left centre/Right centre/Top centre/Bottom centre.
Min last time	It is to set the min time between the illegal parking occurrence and alarm activation.
Target size filter	Click button Draw, you can set the target filter model in this scene. Click the button Clear, you can remove selected target filter model.

4.2.3.8 Fastl Moving

The fast moving interface is shown as below. See Figure 4-20.

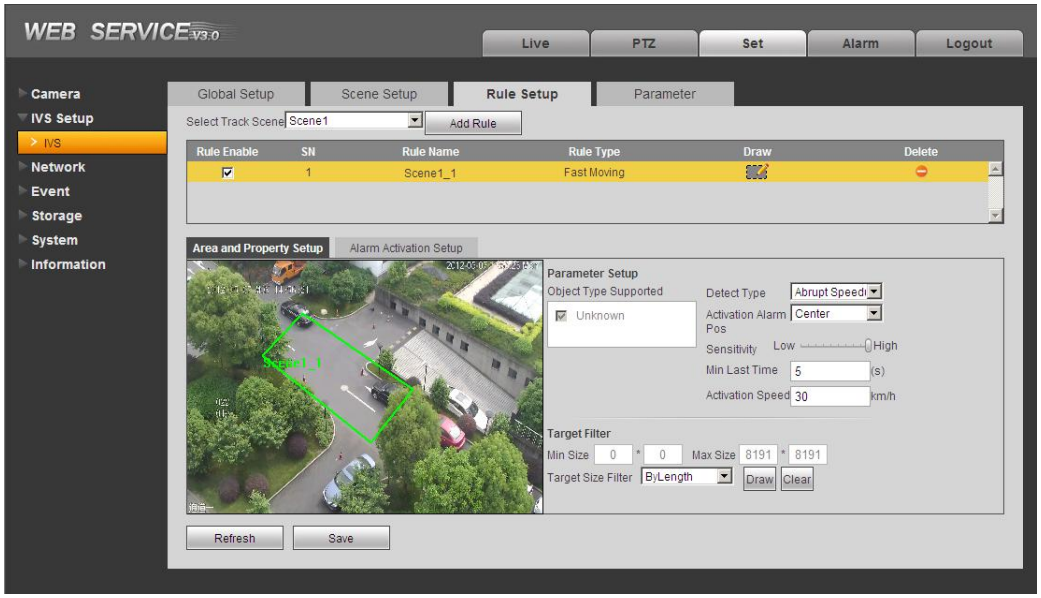

Figure 4-20

Please refer to the following sheet for detailed informaiton.

Parameter	Function
Object type supported	You can select an object type here. The default setup is unknown.
Detect type	● Fast run：It is to detect the fast moving object in the warning zone. ● Abrupt speedup：It is to detect the abrupt speedup object in the warning zone. ● Abrupt slowdown：It is to detect the abrupt slowdown object in the warming zone.
Activate alarm position	Here you can set the alarm activation position of the target frame. There are five options: Centre/Left centre/Right centre/Top centre/Bottom centre.
Sensitivity	Here you can set the alarm activation sensitivity.
Min last time	It is to set the min time between the object continuous movement and alarm activation.
Activation speed	It is to set the min speed here when an object can activate an alarm.
Target size filter	Click button Draw, you can set the target filter model in this scene. Click the button Clear, you can remove selected target filter model.

4.2.3.9 Alarm Activation Setup

Alarm activation setup is shown as in Figure 4-21.

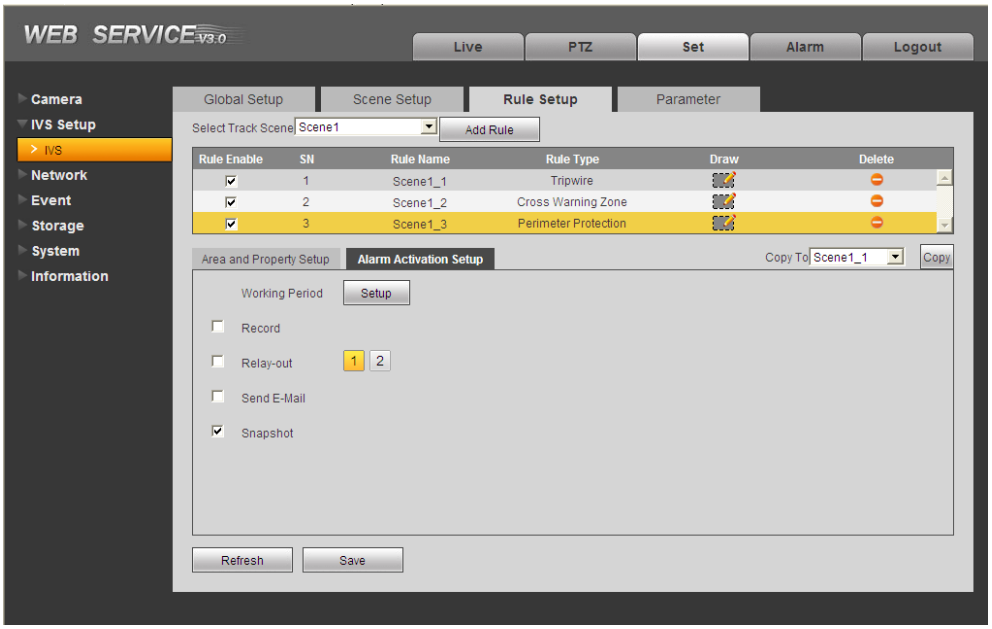

Figure 4-21

Please refer to the following sheet for detailed informaiton.

Parameter	Function
Working period	Here you can set alarm arm and disarm period. Please click the Setup button to set.
Record	Check the box here so that the device can record when alarm activation occurred.
Relay output	Check the box here so that the device can output an alarm when alarm activation occurred.
Send e-mail	● Check the box here so that the device can send out an email when alarm activation occurred. ● Please note current function is null when the device is offline, or IP conflict occurred.
Snapshot	Check the box here so that the device can snapshot when alarm activation occurred.
Copy	Select a rule name from the dropdown list and then click Copy button, you can copy the alarm activation setup of current rule to the selected rule.

4.2.4 Parameter

The parameter interface is shown as in Figure 4-22.

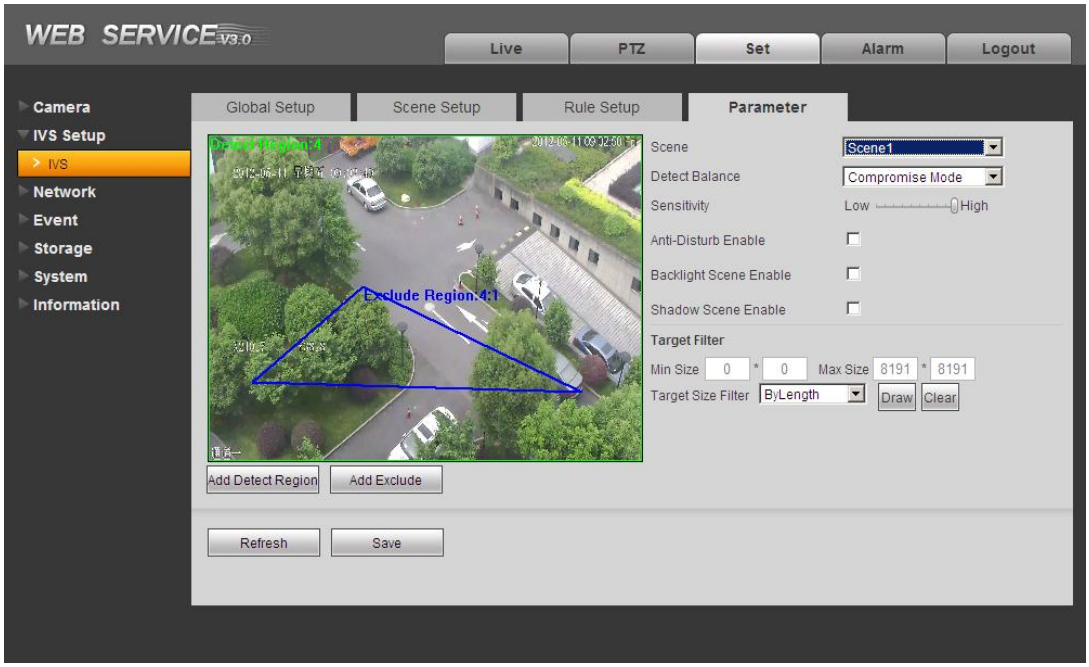

Figure 4-22

Please refer to the following sheet for detailed informaiton.

Parameter	Function
Scene	Please select a scene from the dropdown list you want to set.
Detect balance	There are three modes: compromise mode, omission detect less and error detect less.
Sensitivity	The level ranges from 1 to 10. The default setup is 5. The higher the sensitivity is, the easier for the device to detect the low contrast object and small object. At the same time, the error detect may become more.
Anti-disturbance mode	It is to control the random disturbance in the scene.
Backlight scene enable	Check the box here so that the device can have higher recognize capability in the backlight scene.
Shadow scene enable	Check the box here so that the device can have higher recognize capability in the shadow scene.
Target size filter	Click button Draw, you can set the target filter model in this scene. Click the button Clear, you can remove selected target filter model.
Add detect region	Click button Add Detect Region, you can draw a detection zone.
Add exclued region	Click button Add Exclude, you can draw the privacy mask (shield) zone.

4.3 Network

4.3.1 TCP/IP

The TCP/IP interface is shown as in Figure 4-23.

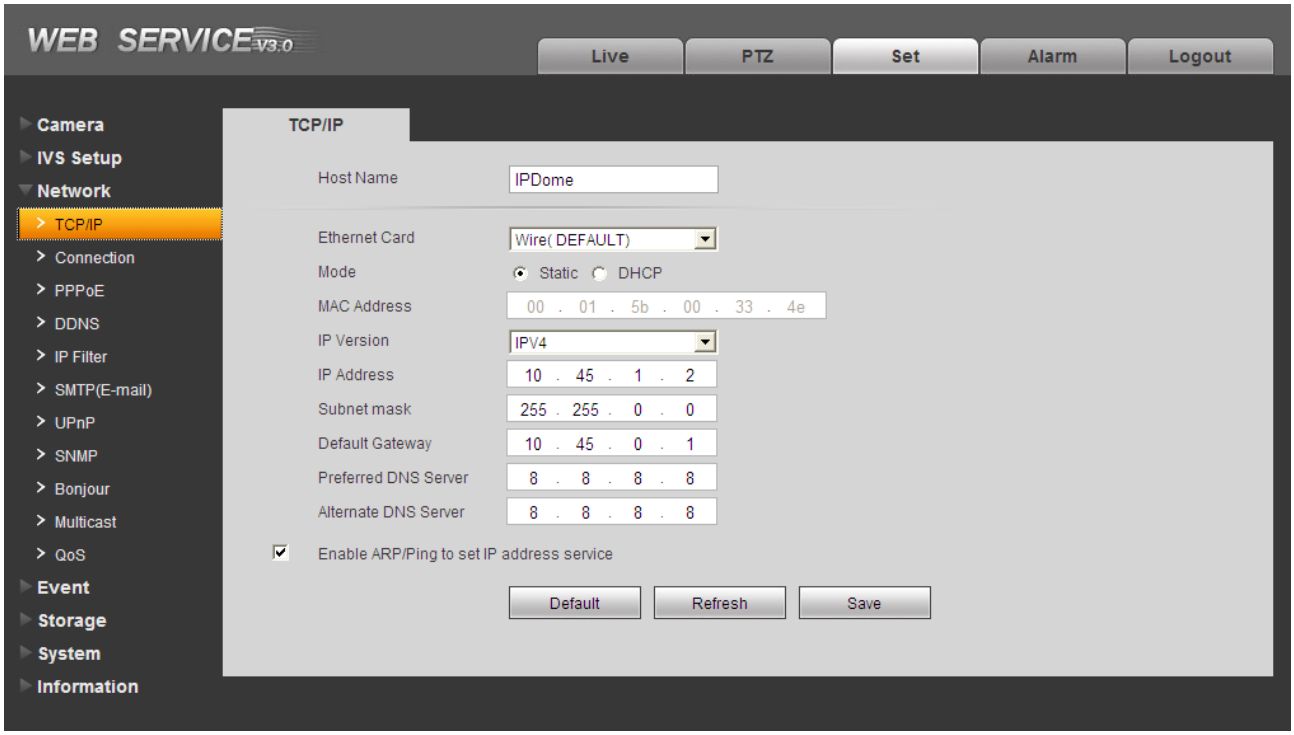

Figure 4-23

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 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.
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 speed dome 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 speed dome and the PC in the same LAN. **Step 2**: Get the physical address from the label of the speed dome. **Step 3**: Go to the Run interface and then input the following commands. arp –s <IP Address> <MAC> ping –l 480 –t <IP Address> Such as: arp -s 192.168.0.125 11-40-8c-18-10-11 ping -l 480 -t 192.168.0.125 **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.

4.3.2 Connection

The connection interface is shown as in Figure 4-24.

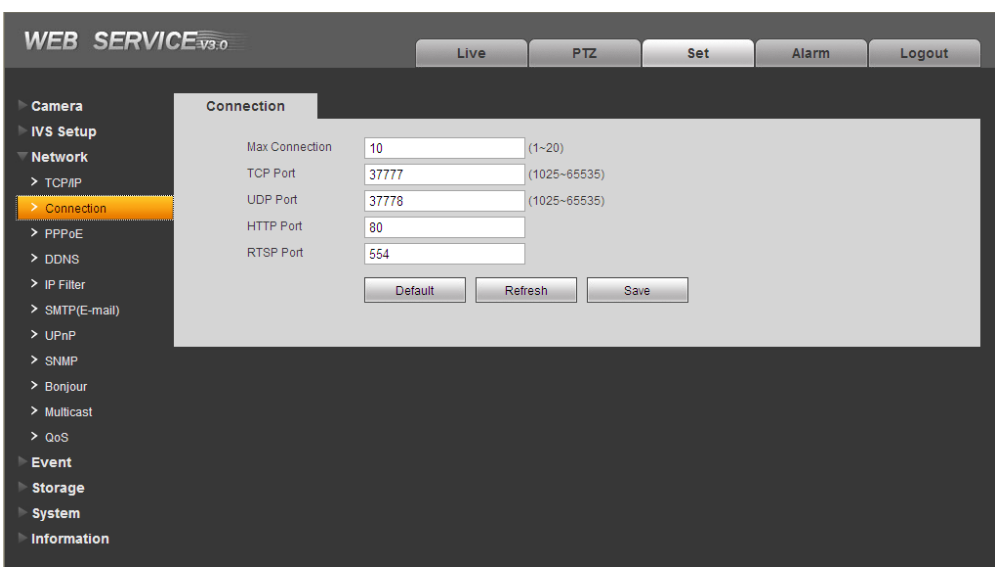

Figure 4-24

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

4.3.3 PPPoE

The PPPoE interface is shown as in Figure 4-25.

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.

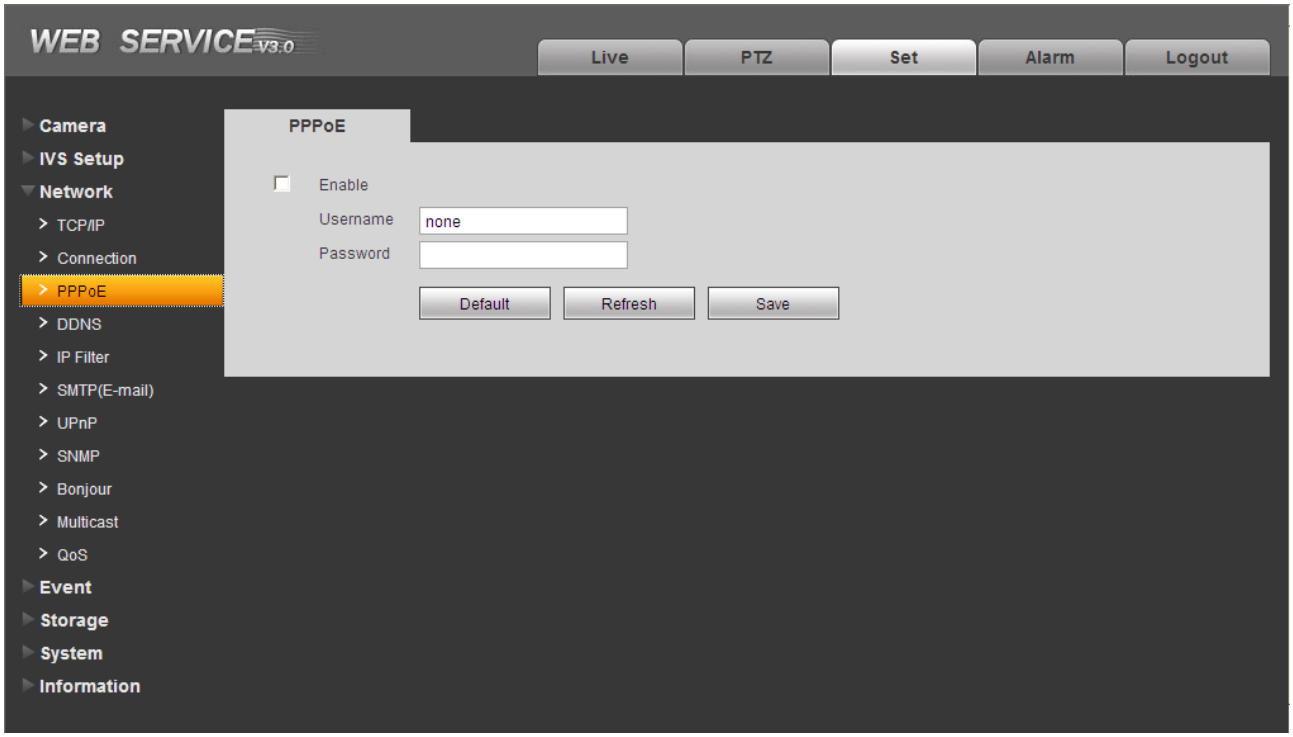

Figure 4-25

4.3.4 DDNS

The DDNS interface is shown as in Figure 4-26.

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 changes.

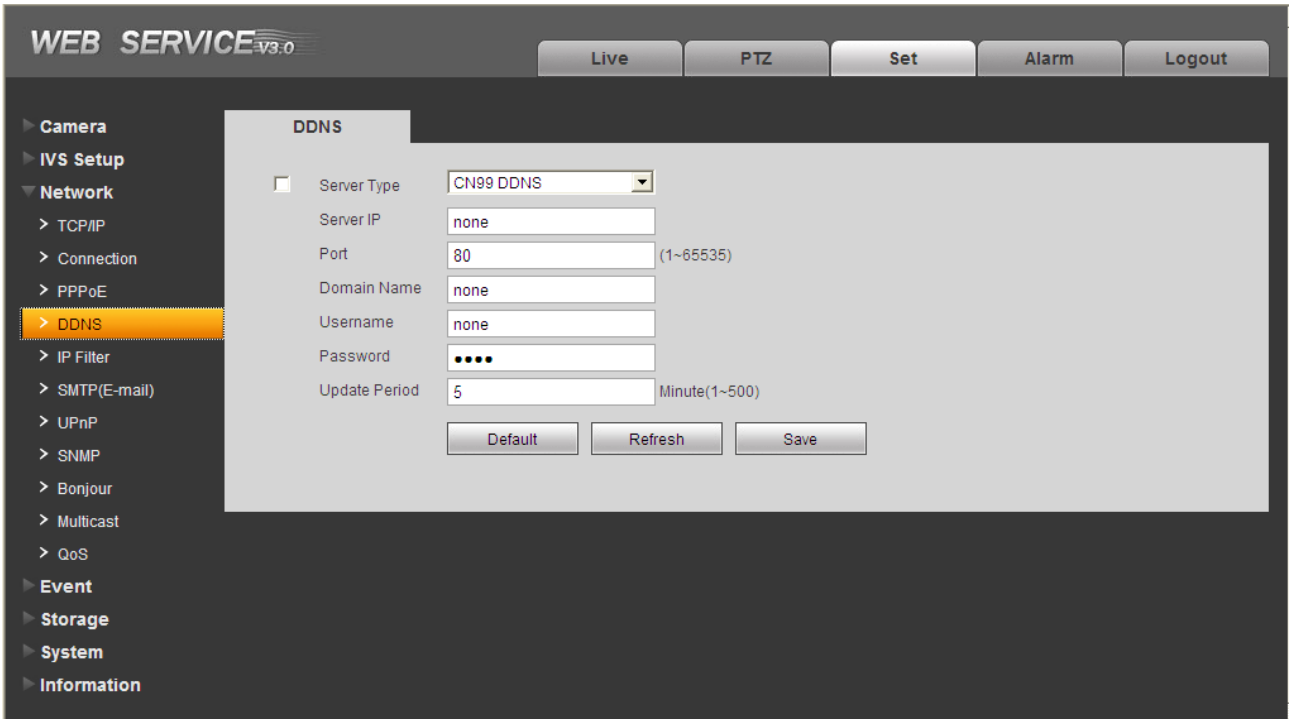

Figure 4-26

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.

4.3.5 IP filter

The IP filter interface is shown as in Figure 4-27.

You can enable IP filter function so that some specified IP user can access the speed dome.

You can add IP address or IP address section.

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

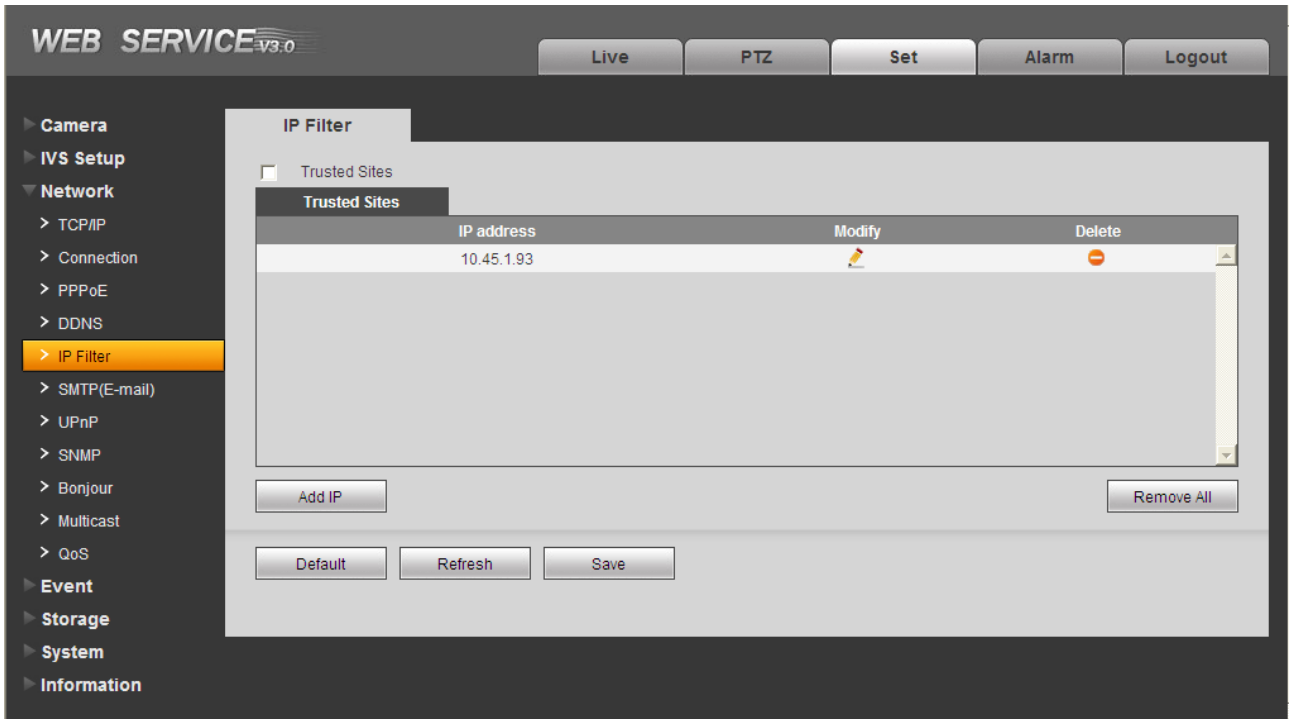

Figure 4-27

4.3.6 SMTP （e-mail）

The SMTP interface is shown as in Figure 4-28.

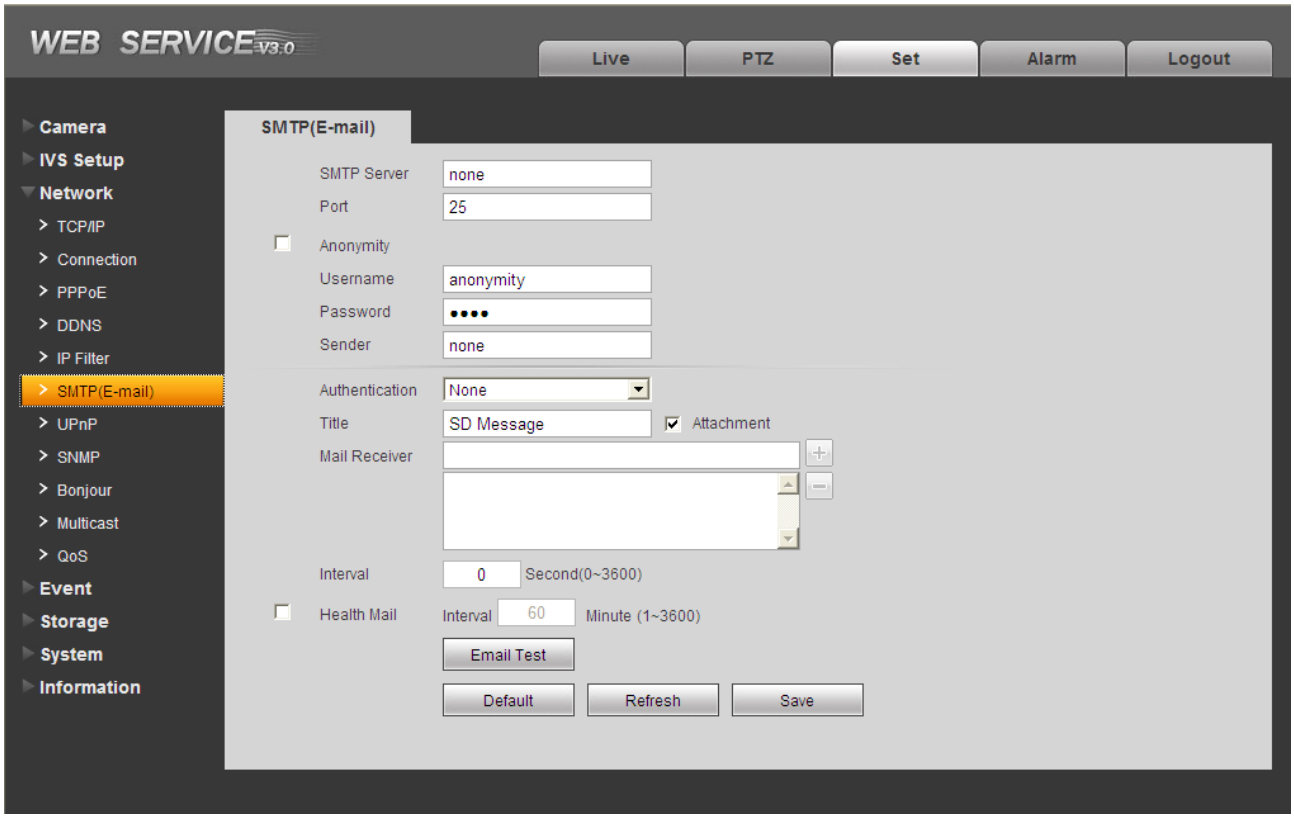

Figure 4-28

Please refer to the following sheet for detailed information.

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.

Parameter	Function
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 an email once to test the connection is OK or not .Before the email test, please save the email setup information.

4.3.7 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 4-29.

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 speed dome can auto detect it via the “My Network Places”

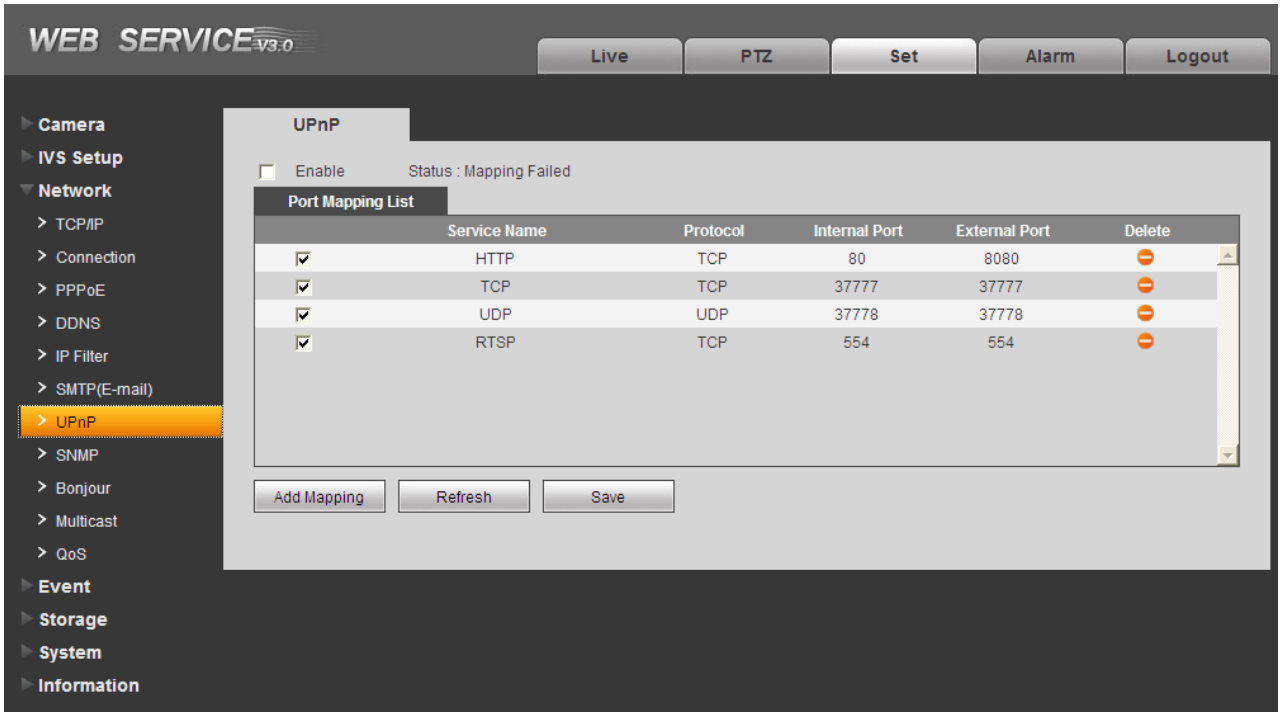

Figure 4-29

4.3.8 SNMP

The SNMP interface is shown as in Figure 4-30.

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.

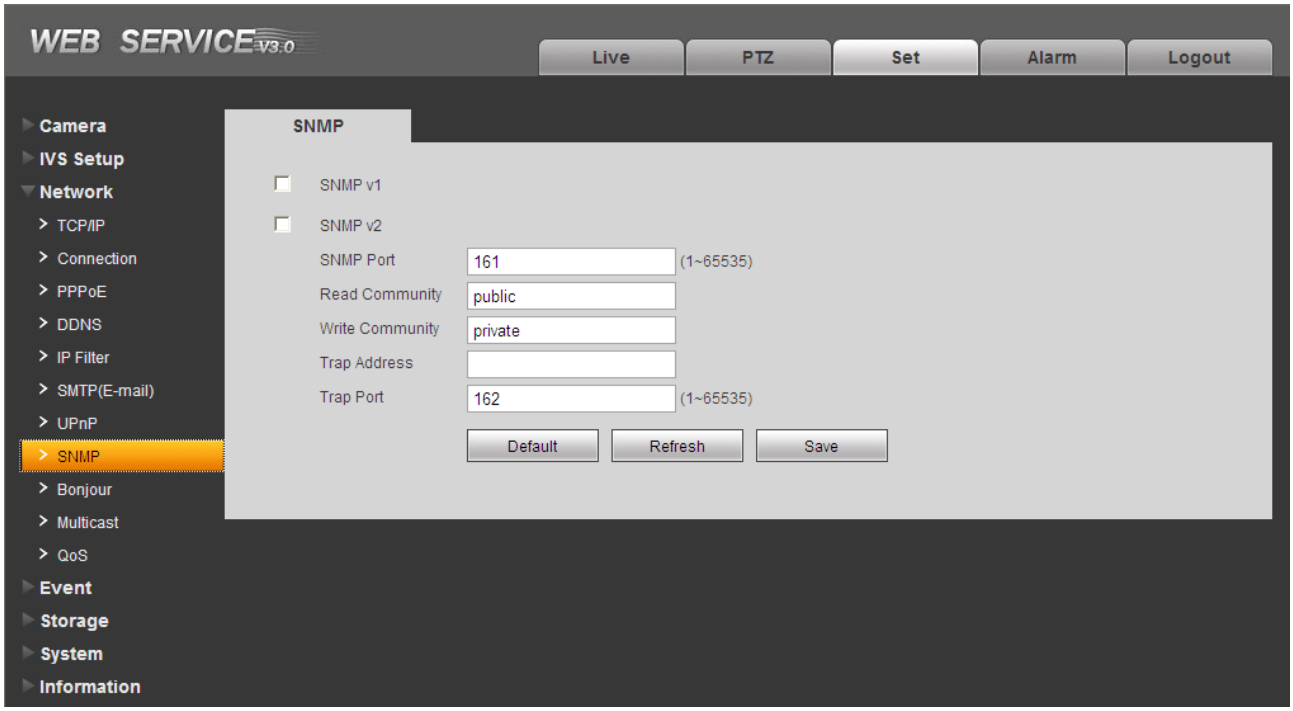

Figure 4-30

Please refer to the following sheet for detailed information.

Parameter	Function
SNMP V1	System only processes the information of V1.
SNMP V2	System only processes the information of V2.
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.

Parameter	Function
Trap address	The destination address of the Trap information from the proxy program of the device.
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.

4.3.9 Bonjour

The Bonjour interface is shown as below. See Figure 4-31.

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 speed dome device and then access if you do not know the speed dome information such as IP address.

You can view the server name when the speed dome 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 speed dome of the Bonjour function in the LAN.

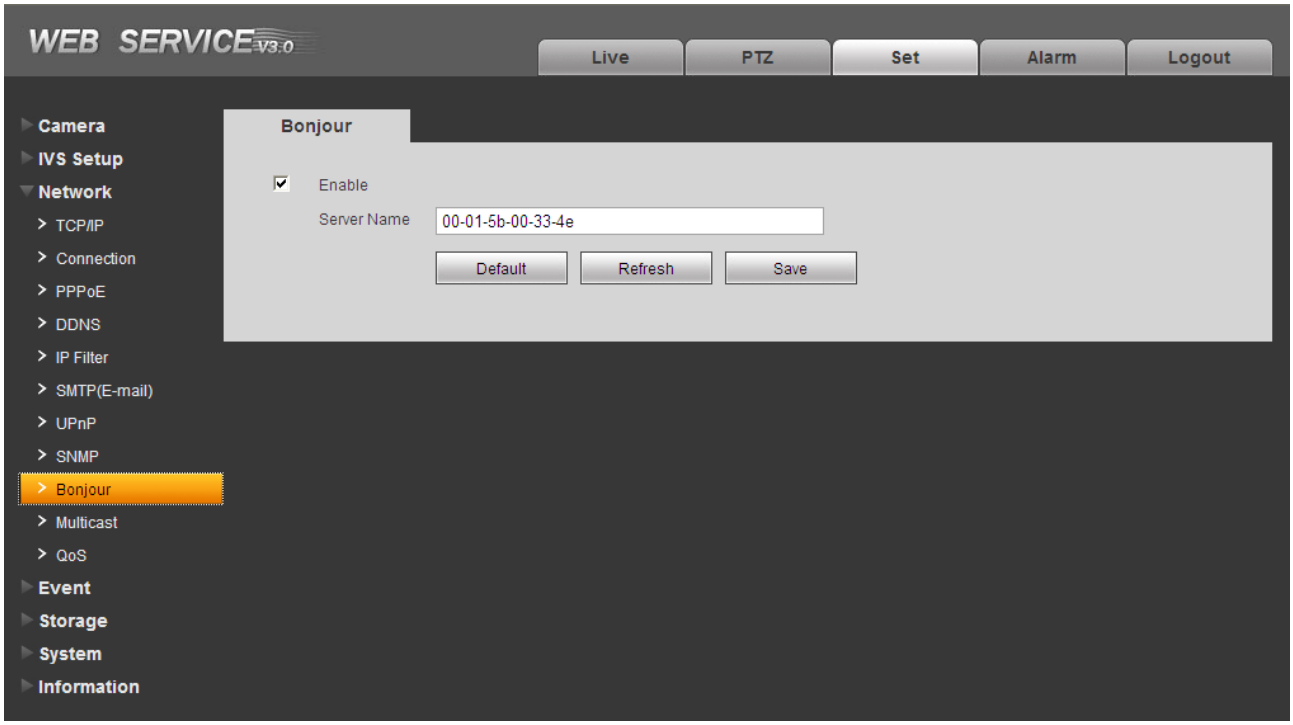

Figure 4-31

4.3.10 Multicast

The multicast interface is shown as in Figure 4-32.

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.

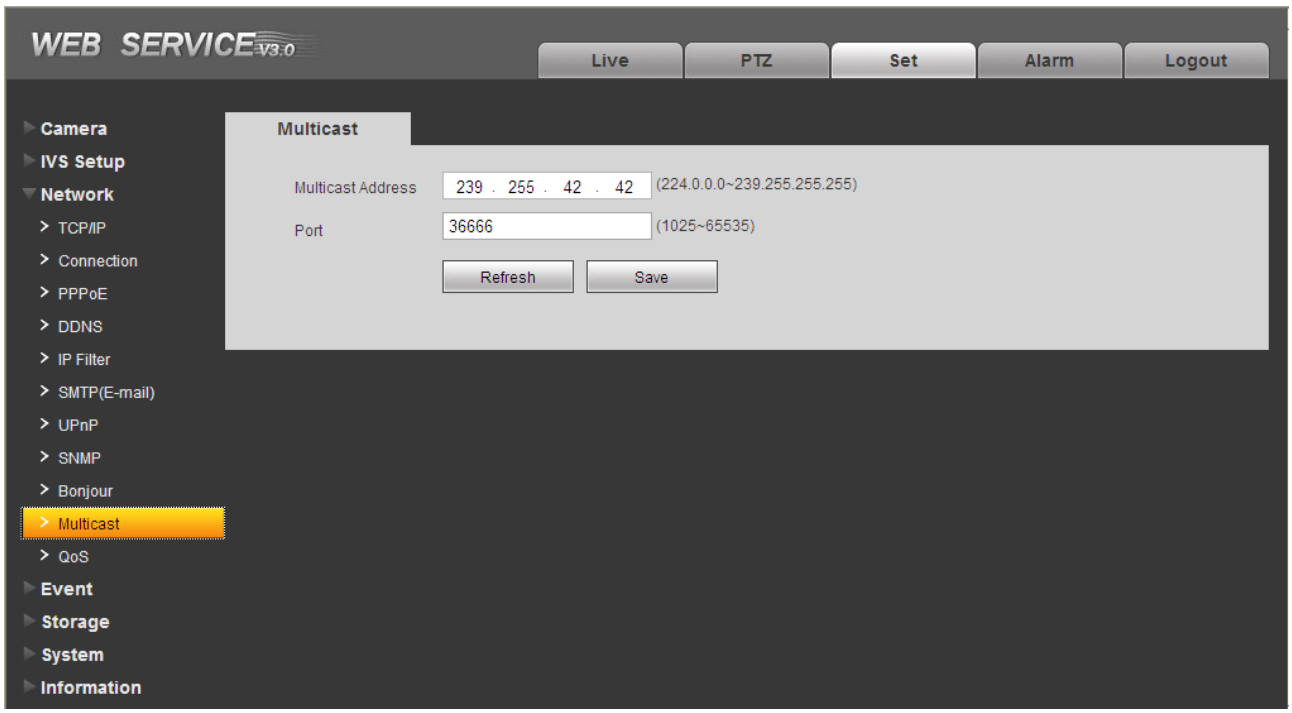

Figure 4-32

4.3.11 Qos

The QoS interface is shown as below. See Figure 4-33.

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, and 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 4-33

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.

4.4 Event

4.4.1 Video detect

4.4.1.1 Motion Detect

The motion detect interface is shown as in Figure 4-34.

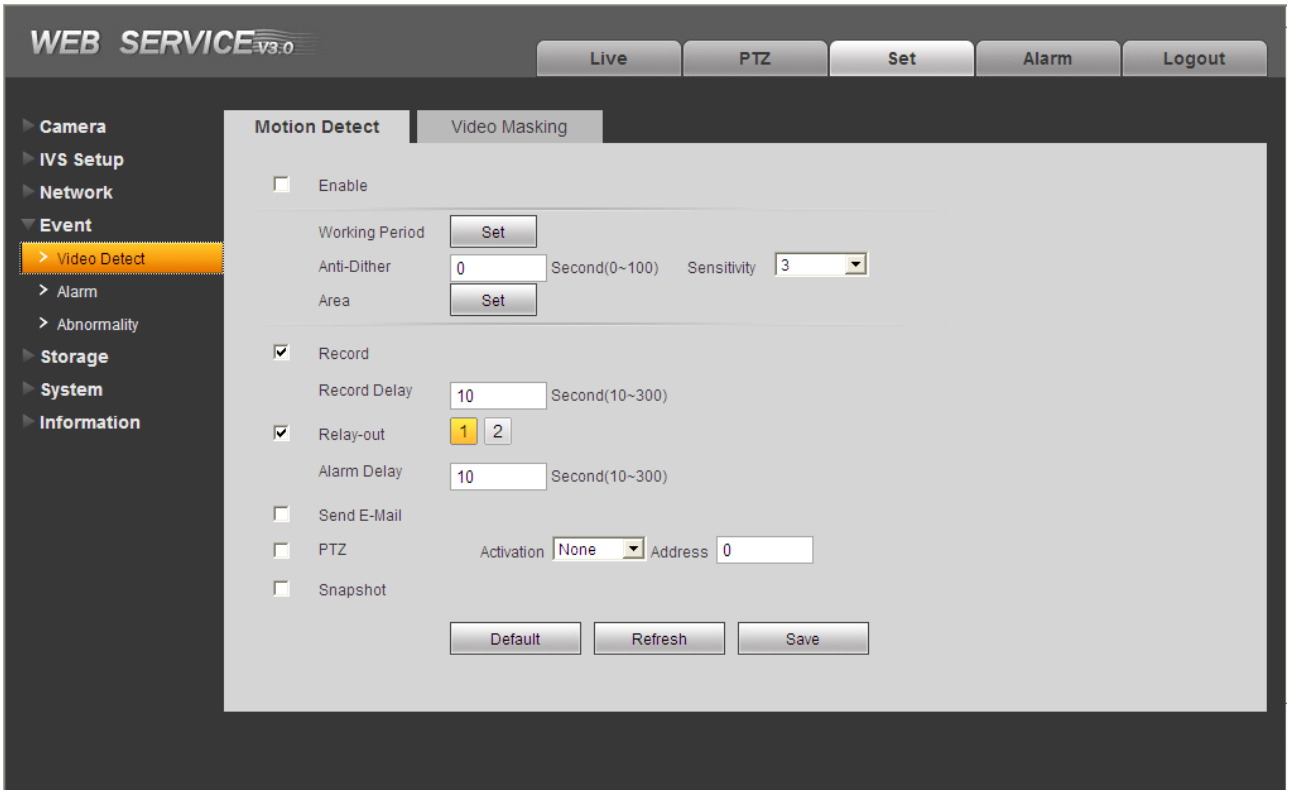

Figure 4-34

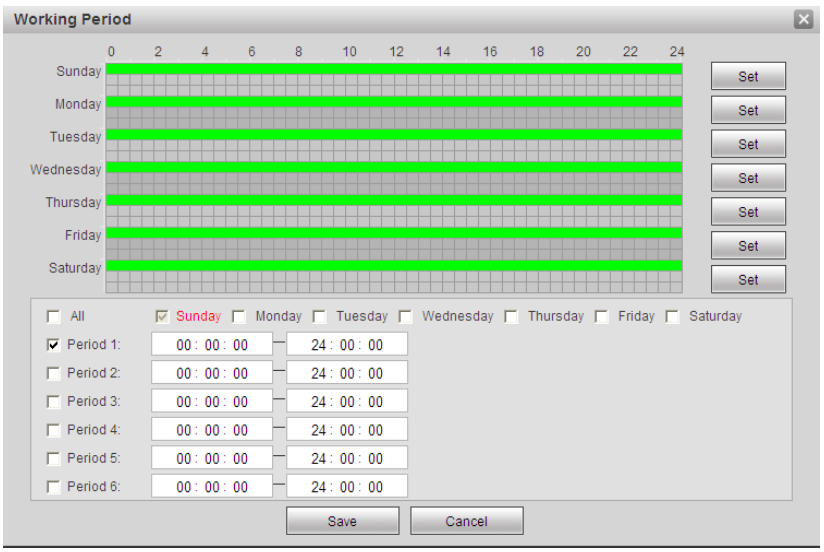

Figure 4-35

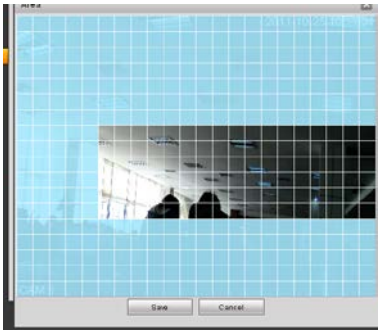

Figure 4-36

Please refer to the following sheet for detailed information.

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 4-36. 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 zone setup.
Working Period	• Motion detection function becomes activated in the specified periods. See Figure 4-35. • 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.
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.

Parameter	Function
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.

4.4.1.2 Video Masking

The video masking interface is shown as in Figure 4-37.

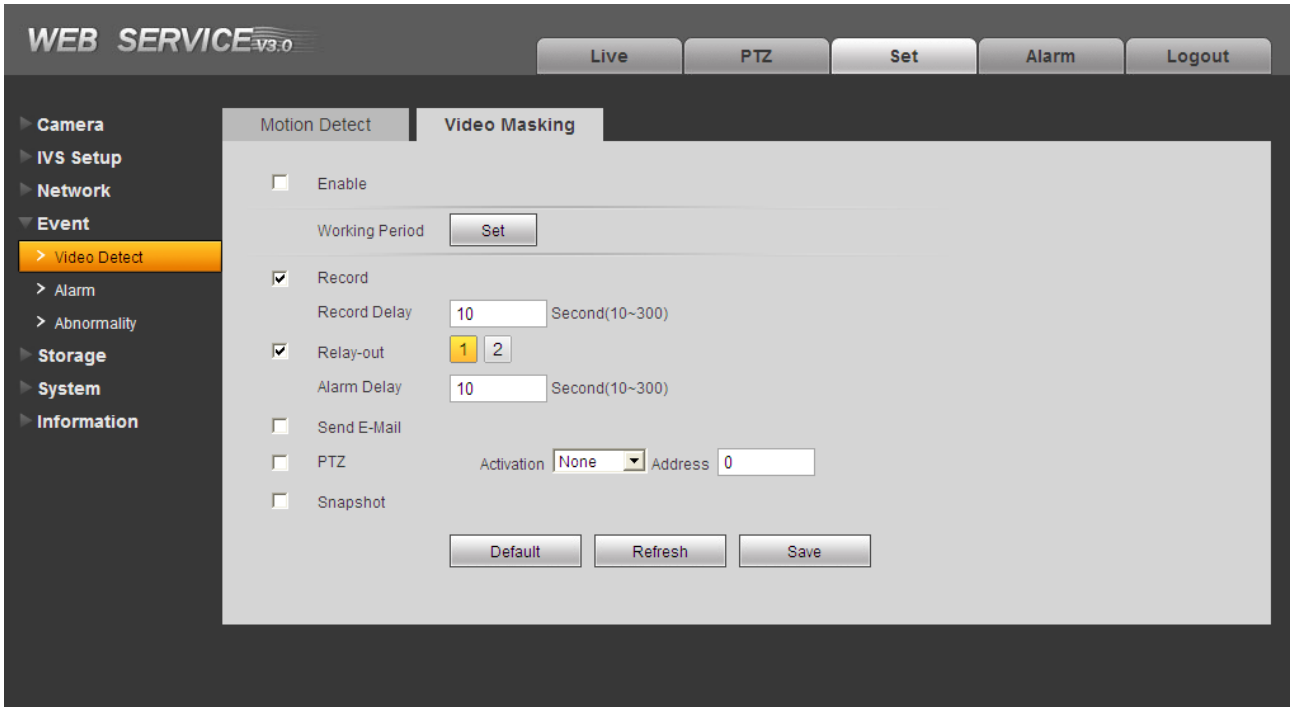

Figure 4-37

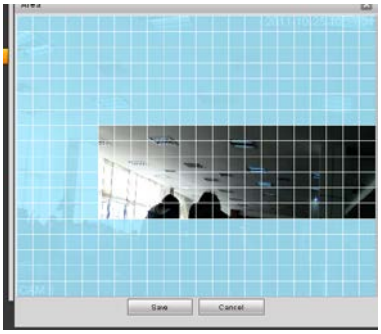

Figure 4-38

Please refer to the following sheet for detailed information.

Parameter	Function
Enable	You 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 4-38. 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.
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.

Parameter	Function
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.

4.4.2 Alarm

4.4.2.1 Alarm activation

The alarm activation interface is shown as in Figure 4-39.

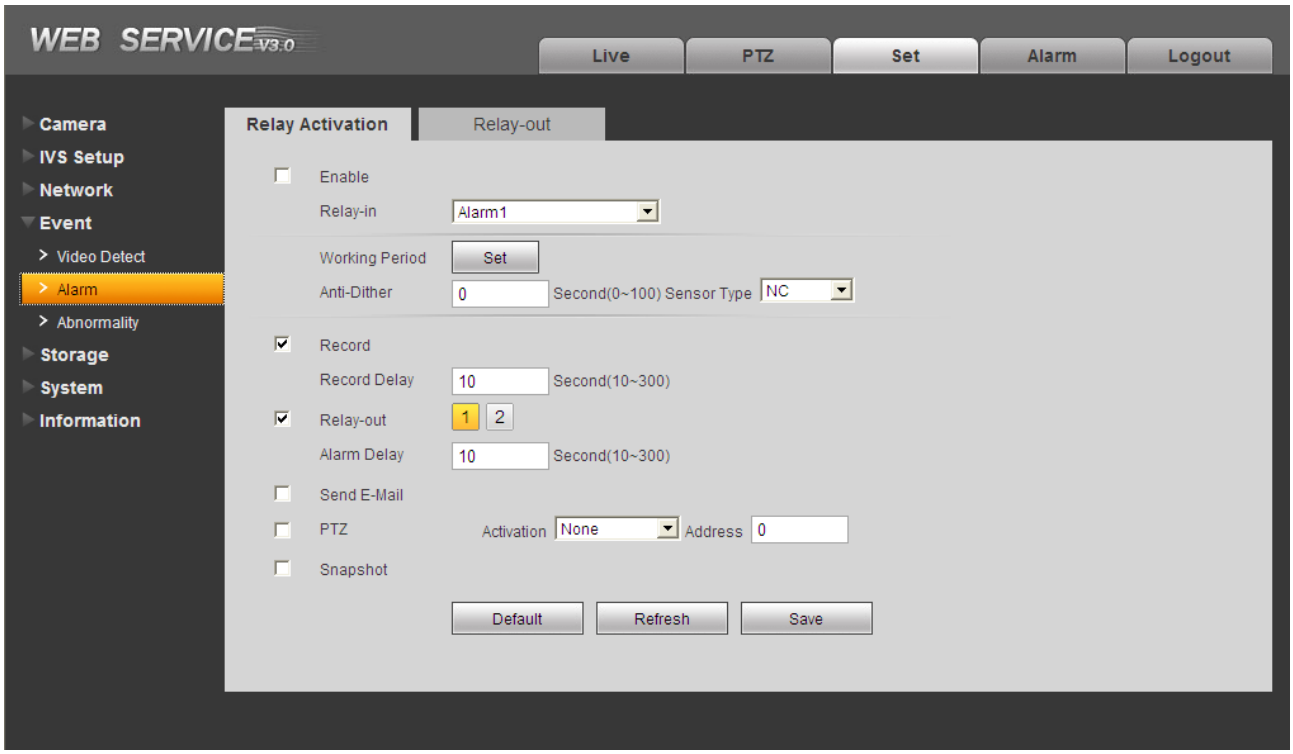

Figure 4-39

Please refer to the following sheet for detailed information.

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	• Enable alarm activation function. You need to select alarm output port so that system can activate corresponding alarm device when alarm occurs. • **Please note the interface here is for reference only. The alarm output number may vary due to different series products.**
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.

4.4.2.2 Relay output

The relay output interface is shown as in Figure 4-40.

Figure 4-40

Please refer to the following sheet for detailed information.

Parameter	Function
Alarm output	There are two output channels. Please click the corresponding button. If you want to enable the alarm activation output function, please press the corresponding button and then trigger. **Please note the interface here is for reference only. The alarm output number may vary due to different series products.**
Trigger	When the alarm output channel is open, the output port can immediately output an alarm once it occurred.
Refresh	Refresh alarm output status.

4.4.3 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 4-41 through Figure 4-45.

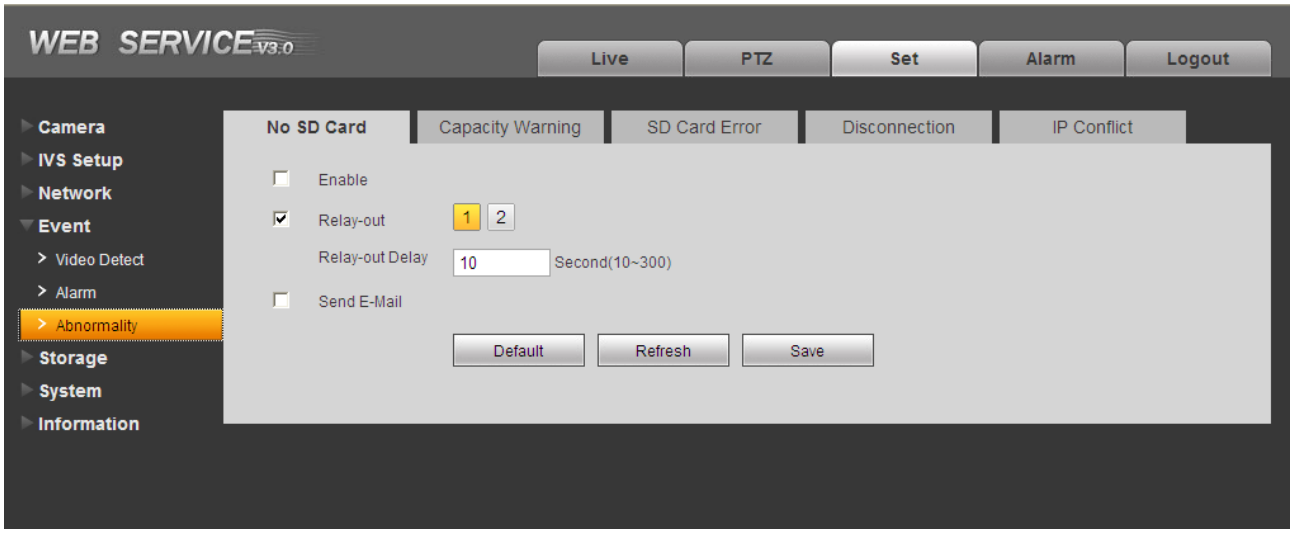

Figure 4-41

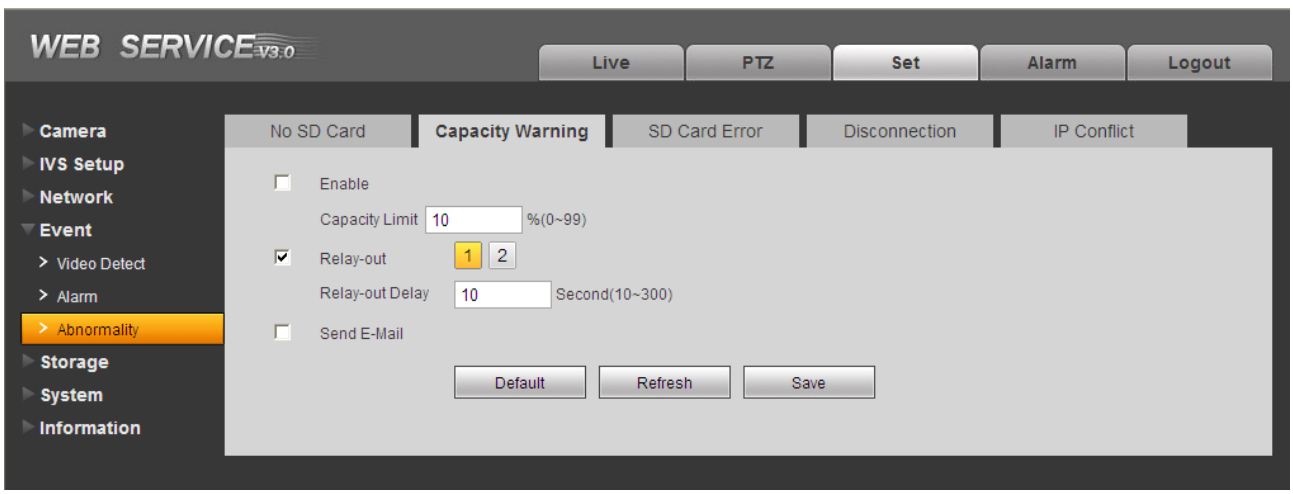

Figure 4-42

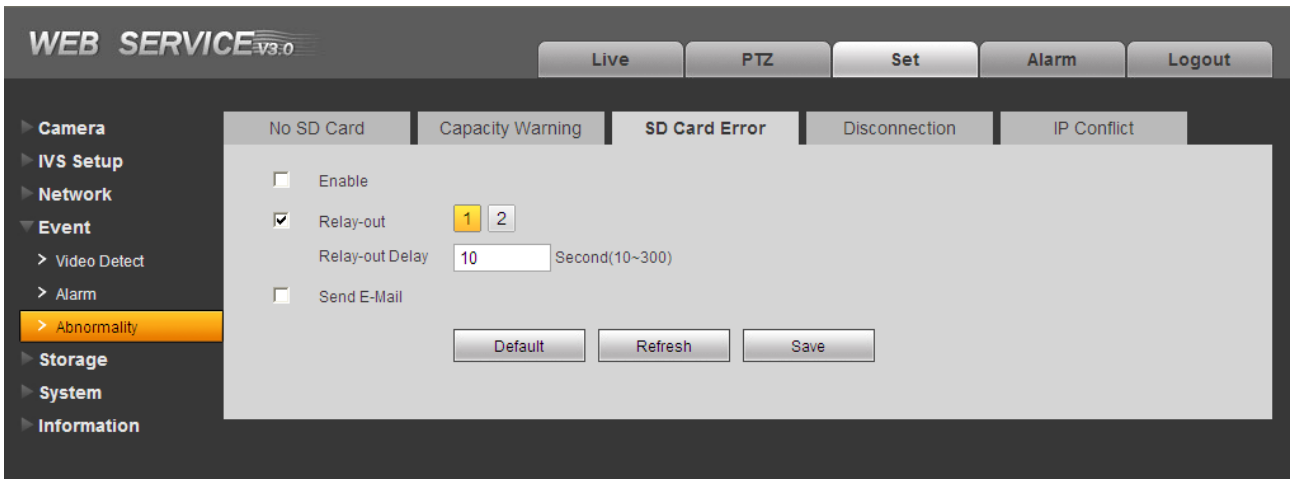

Figure 4-43

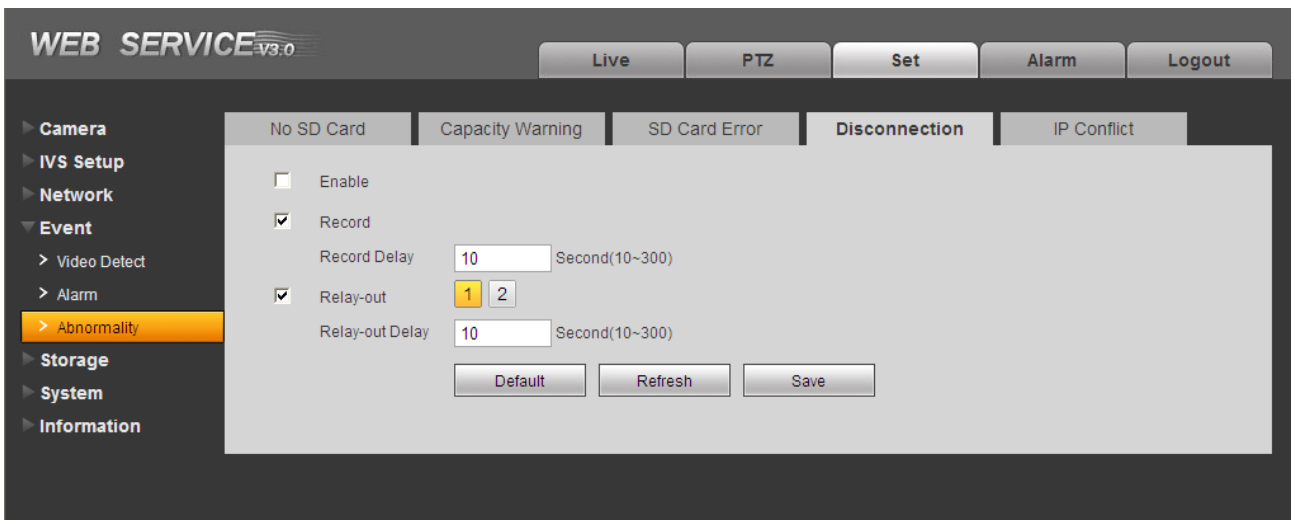

Figure 4-44

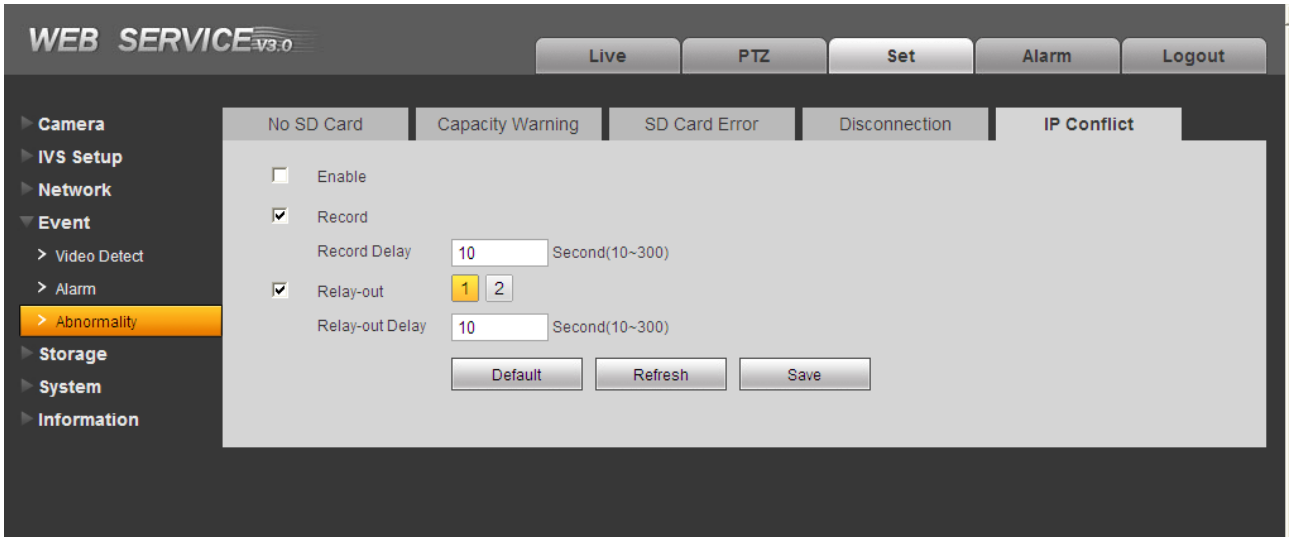

Figure 4-45

Please refer to the following sheet for detailed information.

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 type only. See Figure 4-45.). 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.

4.5 Storage

4.5.1 Record schedule and snapshot schedule

In these two interfaces, you can add or remove the schedule record/snapshot setup. See Figure 4-46. 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.

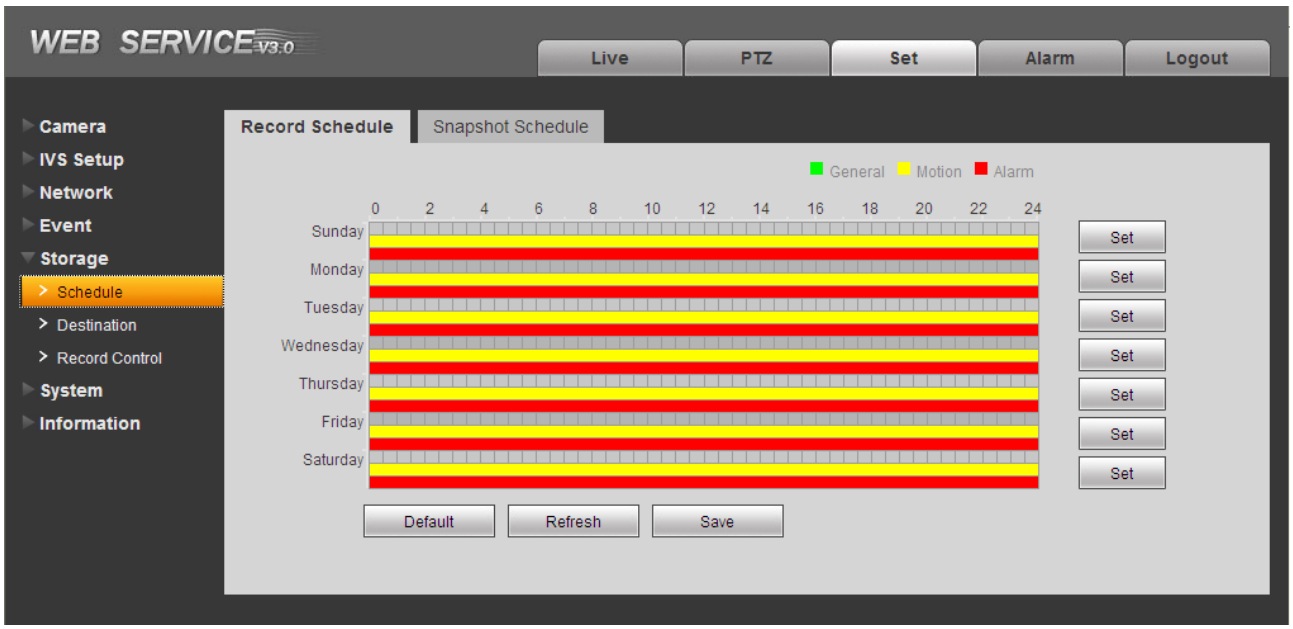

Figure 4-46

4.5.2 Destination

The destination interface is shown as in Figure 4-47.

It is to set the storage mode of the speed dome 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.

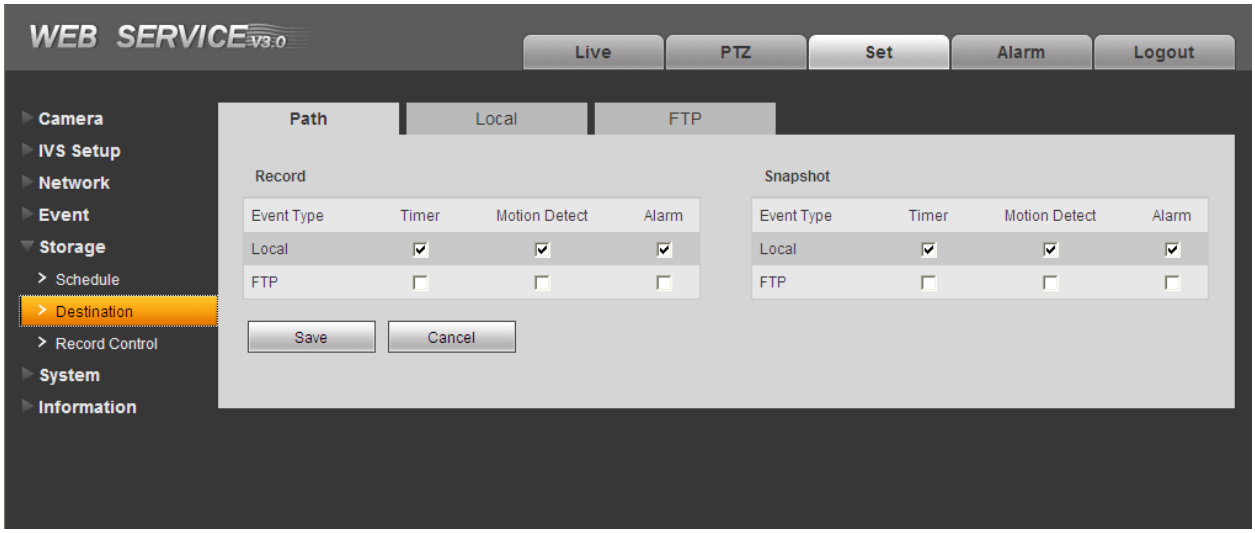

Figure 4-47

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 4-48. Here you can view local SD card or disk information. You can also operate the read-only, write-only, hot swap and format operation.

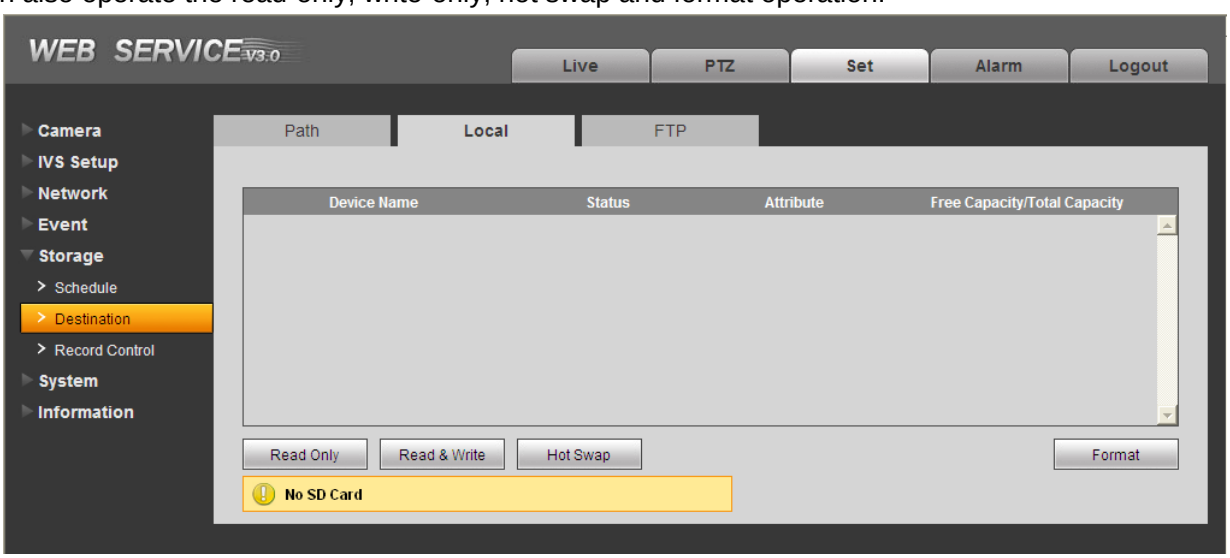

Figure 4-48

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

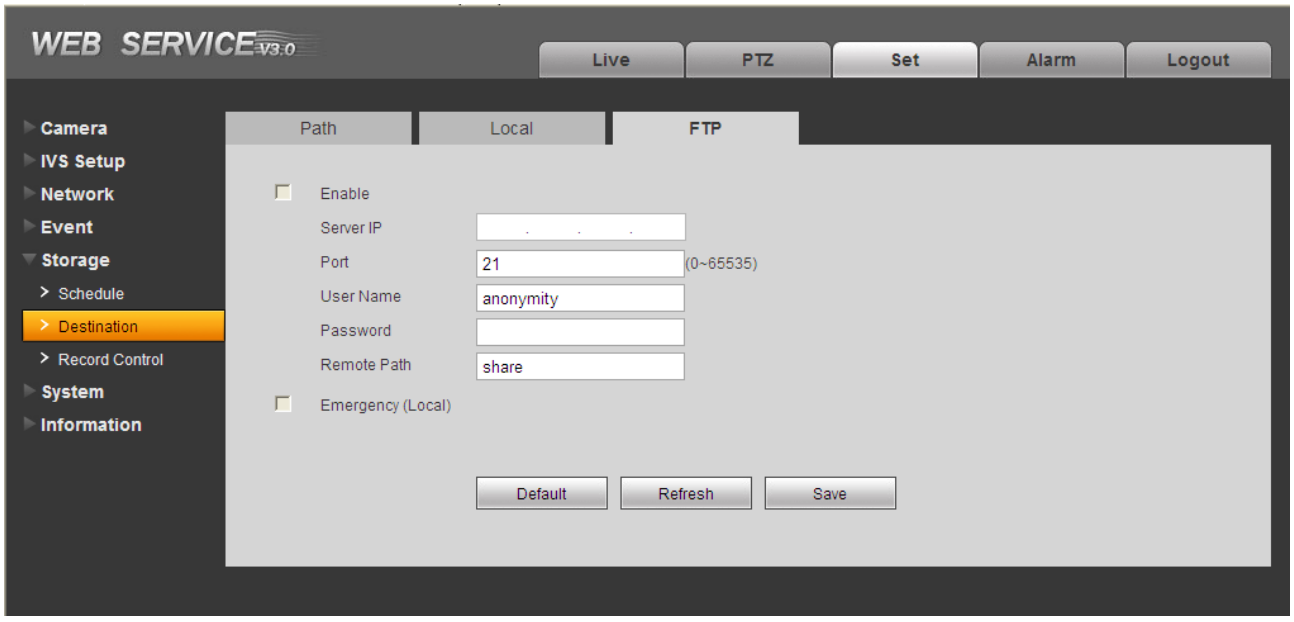

Figure 4-49

4.5.3 Record control

The record control interface is shown as in Figure 4-50.

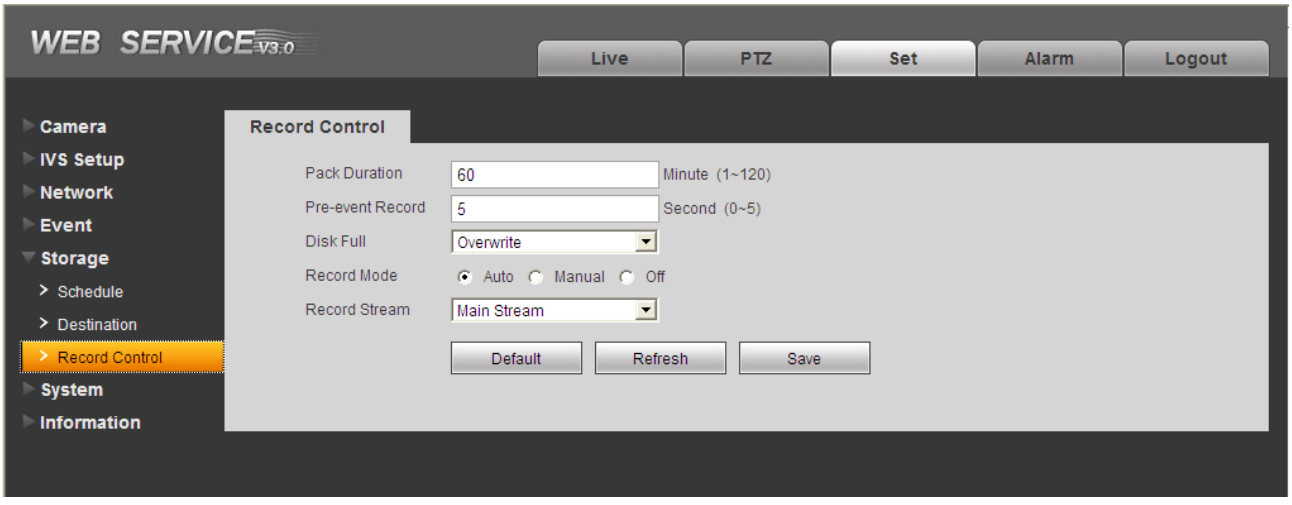

Figure 4-50

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.

4.6 System

4.6.1 General

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

4.6.1.1 Local host

The local host interface is shown as in Figure 4-51.

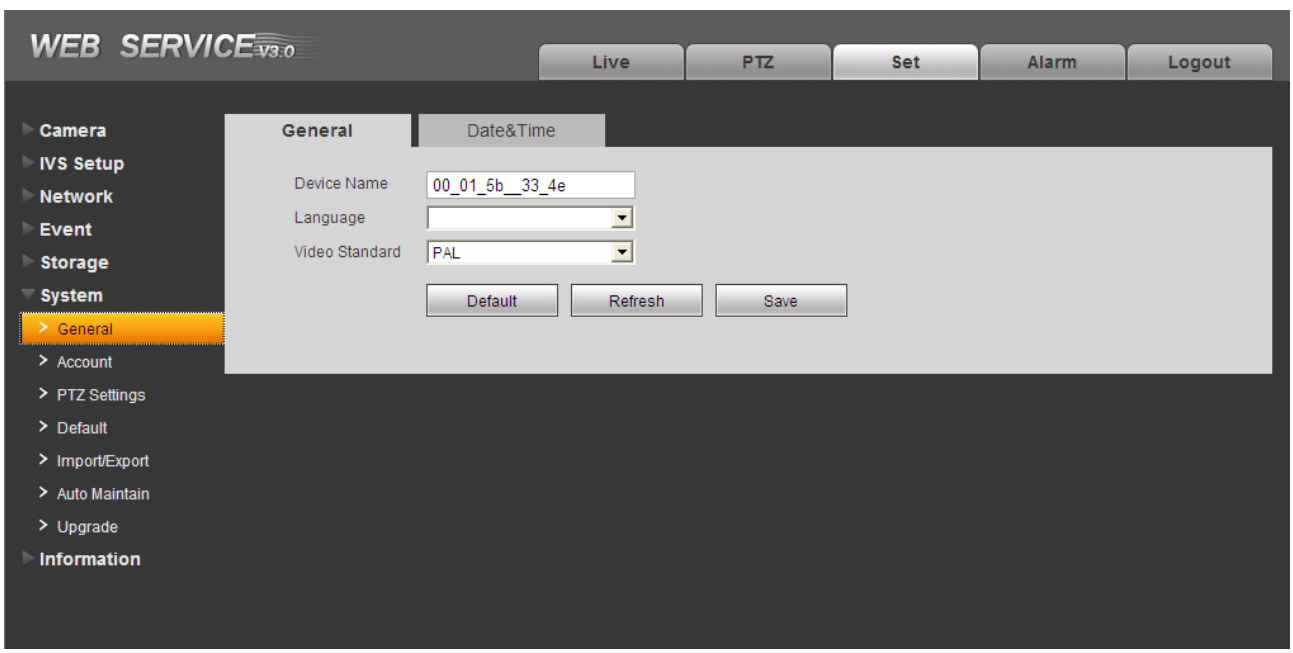

Figure 4-51

Please refer to the following sheet for detailed information.

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.**

4.6.1.2 Date and time

The date and time interface is shown as in Figure 4-52

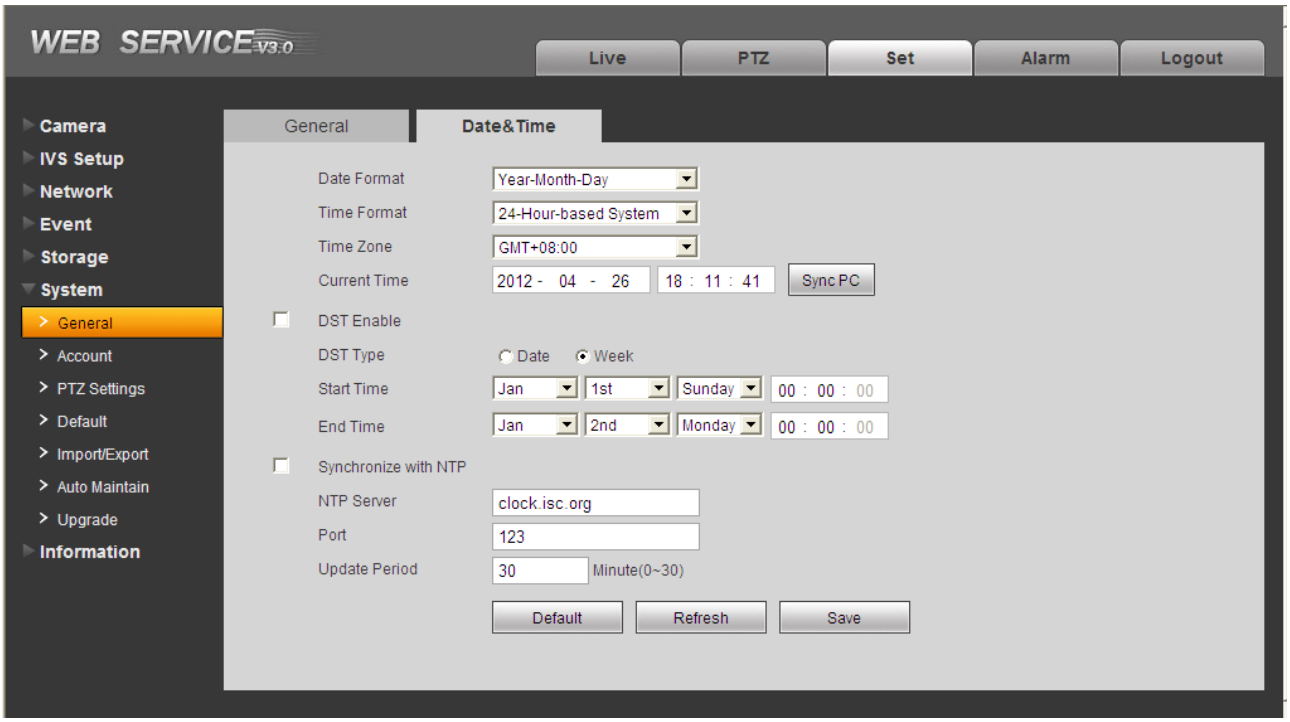

Figure 4-52

Please refer to the following sheet for detailed information.

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.

4.6.2 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.

4.6.2.1 User name

In this interface you can add/remove user and modify user name. See Figure 4-53.

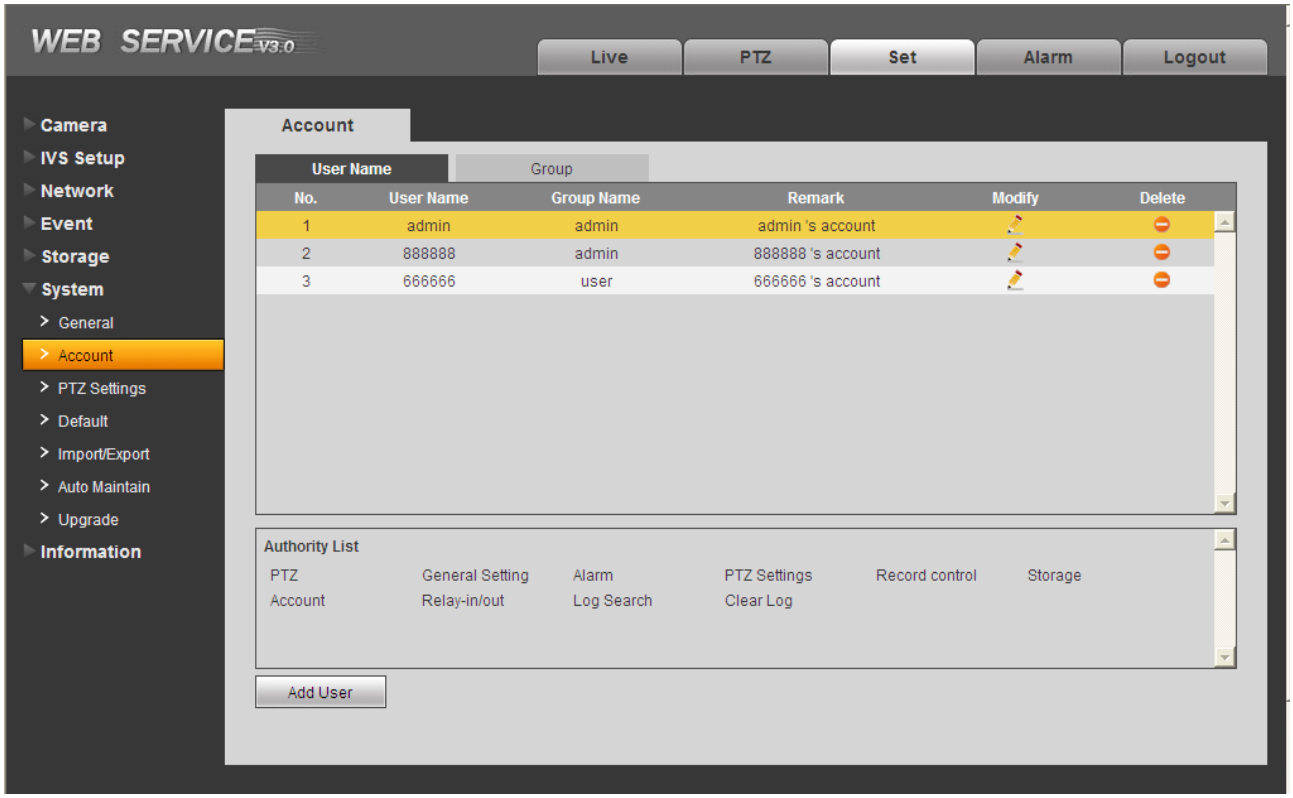

Figure 4-53

Add user: It is to add a name to group and set the user rights. See Figure 4-54.

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.

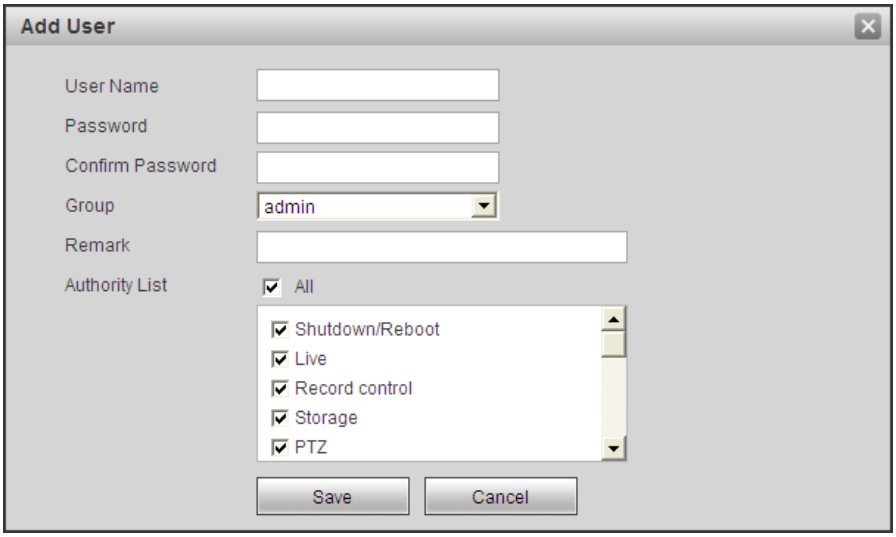

Figure 4-54

Modify user

It is to modify the user property, belonging group, password and rights. See Figure 4-55.

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.

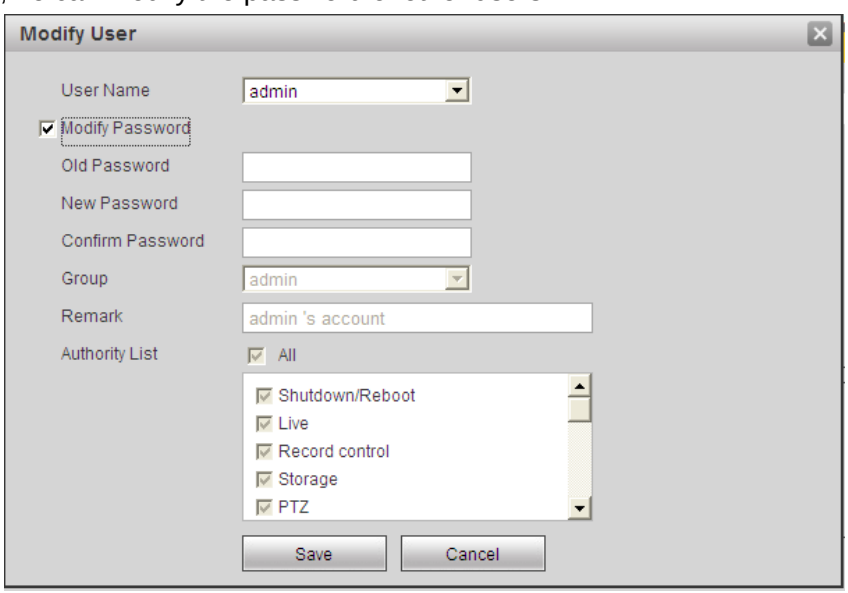

Figure 4-55

4.6.2.2 Group

The group management interface can add/remove group, modify group password and etc. The interface is shown as in Figure 4-56.

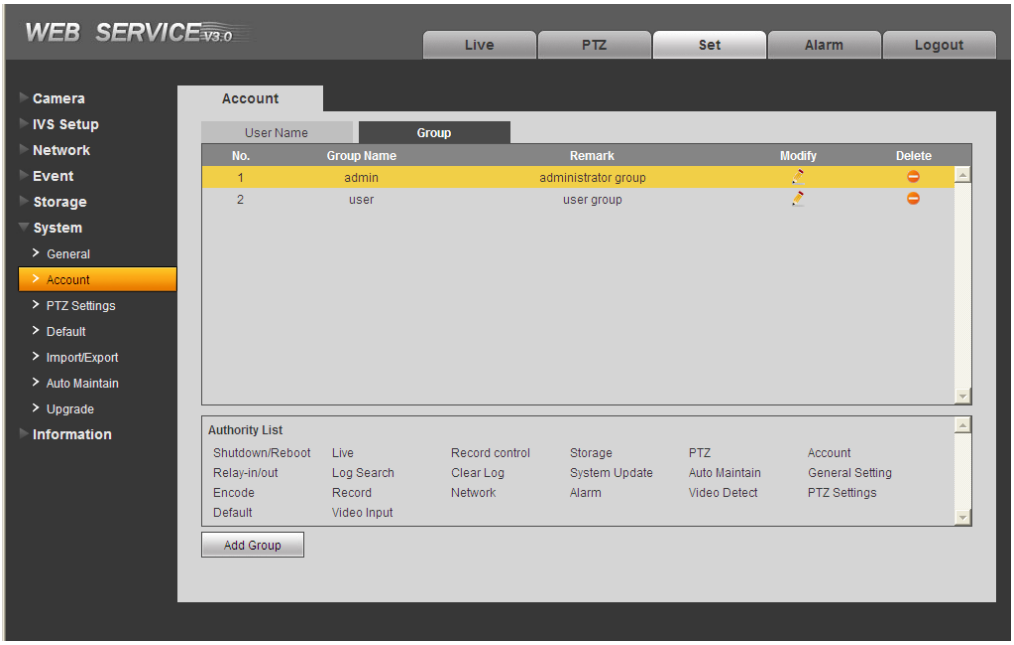

Figure 4-56

Add group: It is to add group and set its corresponding rights. See Figure 4-58.
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.

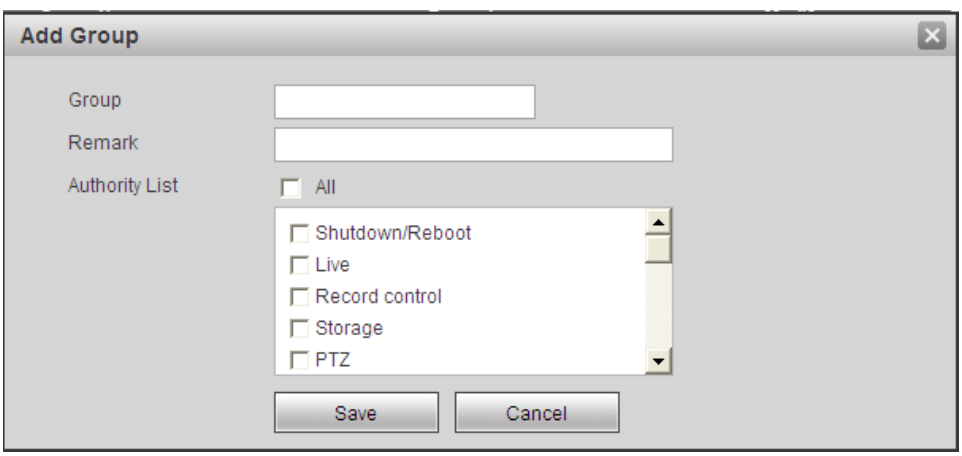

Figure 4-57

Modify group

Click the modify group button, you can see an interface is shown as in Figure 4-58.
Here you can modify group information such as remarks and rights.

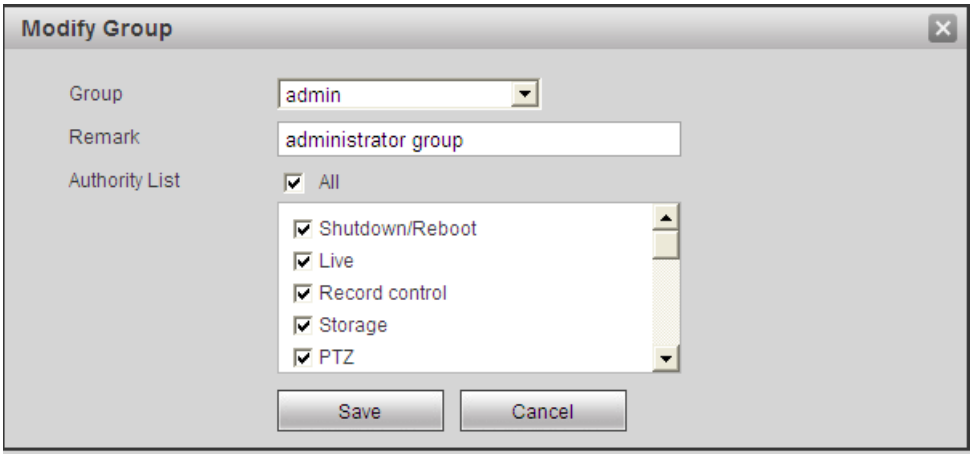

Figure 4-58

4.6.3 PTZ

The PTZ interface includes two interfaces.

4.6.3.1 Network PTZ

The network PTZ interface is shown as in Figure 4-59.

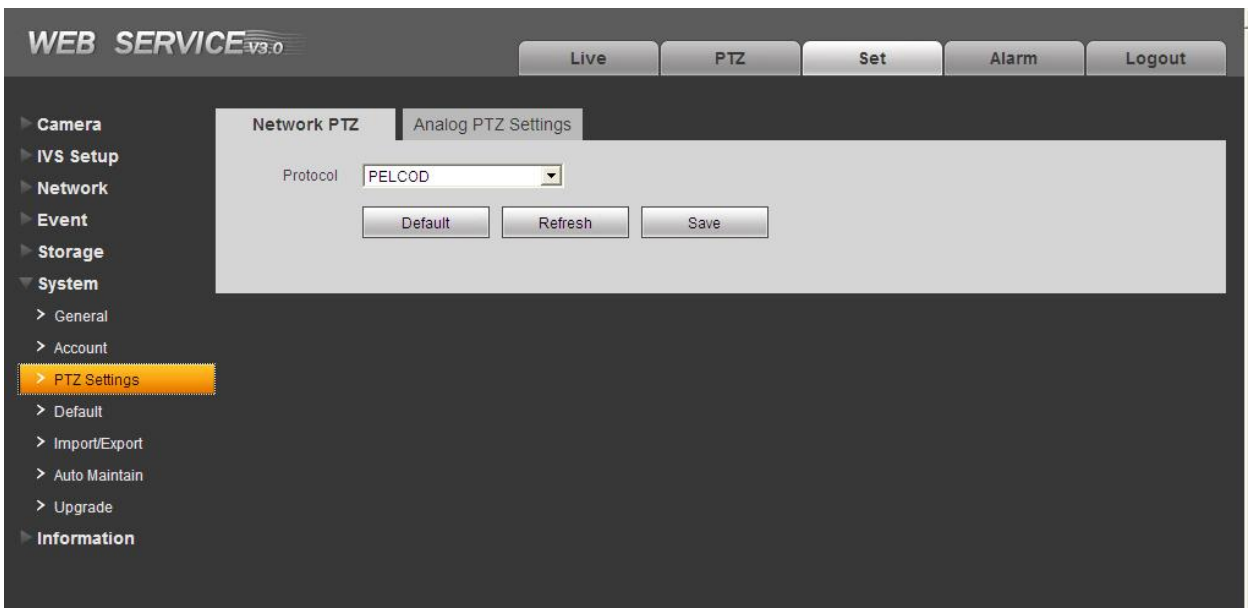

Figure 4-59

Please refer to the following sheet for detailed information.

Parameter	Function
Protocol	Select the corresponding dome protocol.

4.6.3.2 Analog PTZ Setting

The analog PTZ setting interface is shown as in Figure 4-60.

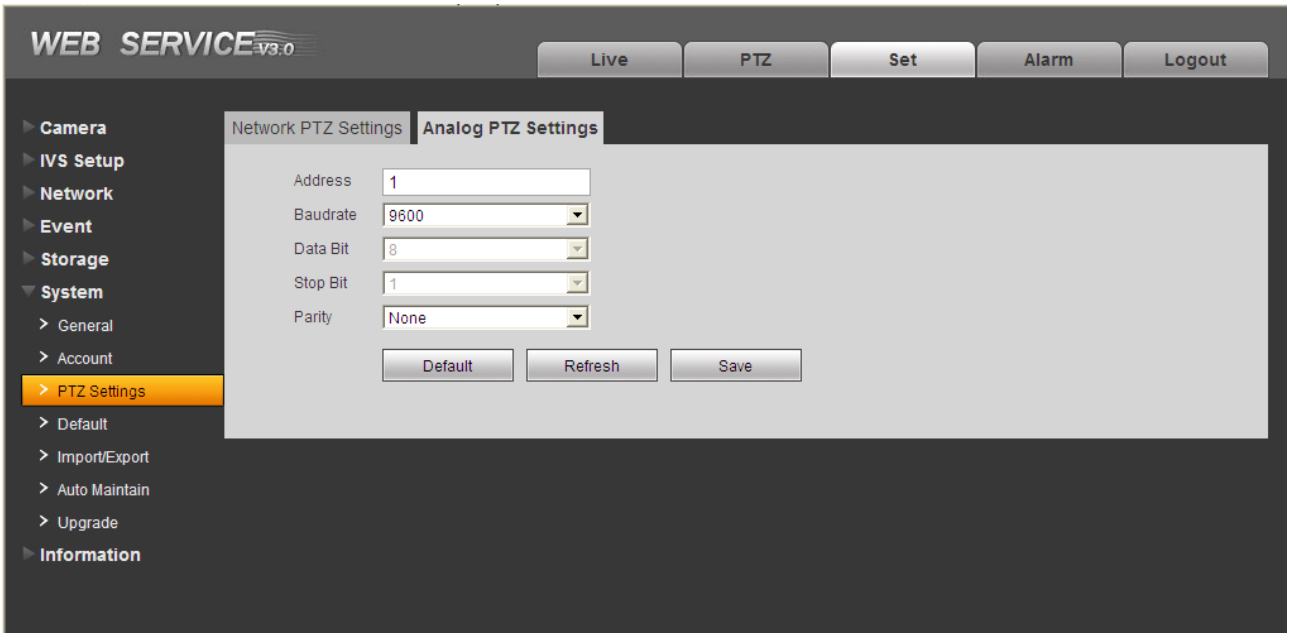

Figure 4-60

Please refer to the following sheet for detailed information.

Parameter	Function
Address	Set the address you can control the speed dome via the RS485. Default value is 1.
Baud Rate	Set the baud rate you can control the speed dome via the RS485. Default setup is 9600.
Data Bit	Default setup is 8.
Stop bit	Default setup is 1.
Parity	Set the parity you can control the speed dome via the RS485. Default setup is none.

4.6.4 Default

The default setup interface is shown as in Figure 4-61.

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

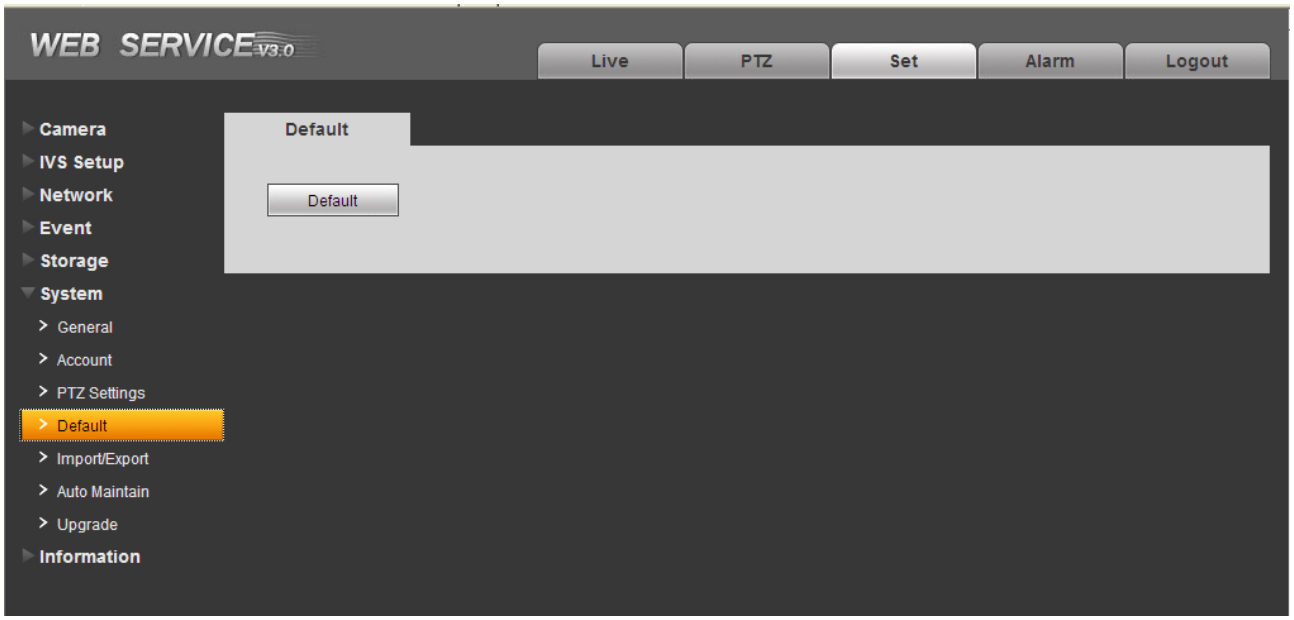

Figure 4-61

4.6.5 Import/Export

The interface is shown as in Figure 4-62.

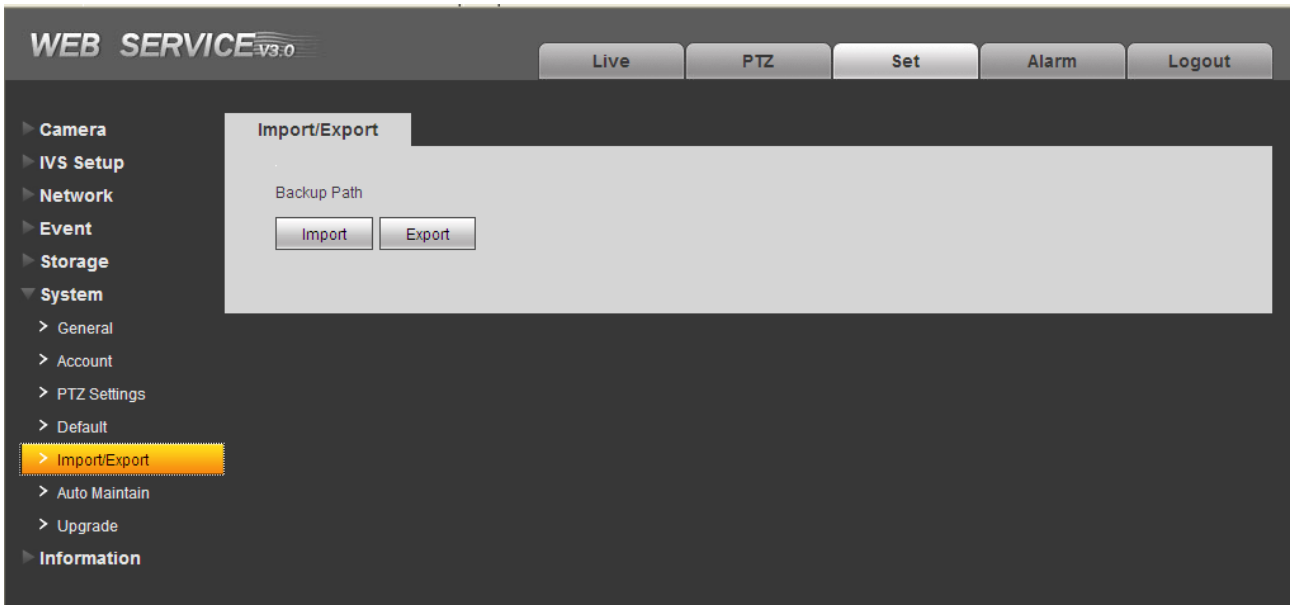

Figure 4-62

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.

4.6.6 Auto maintenance

The auto maintenance interface is shown as in Figure 4-63.

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.

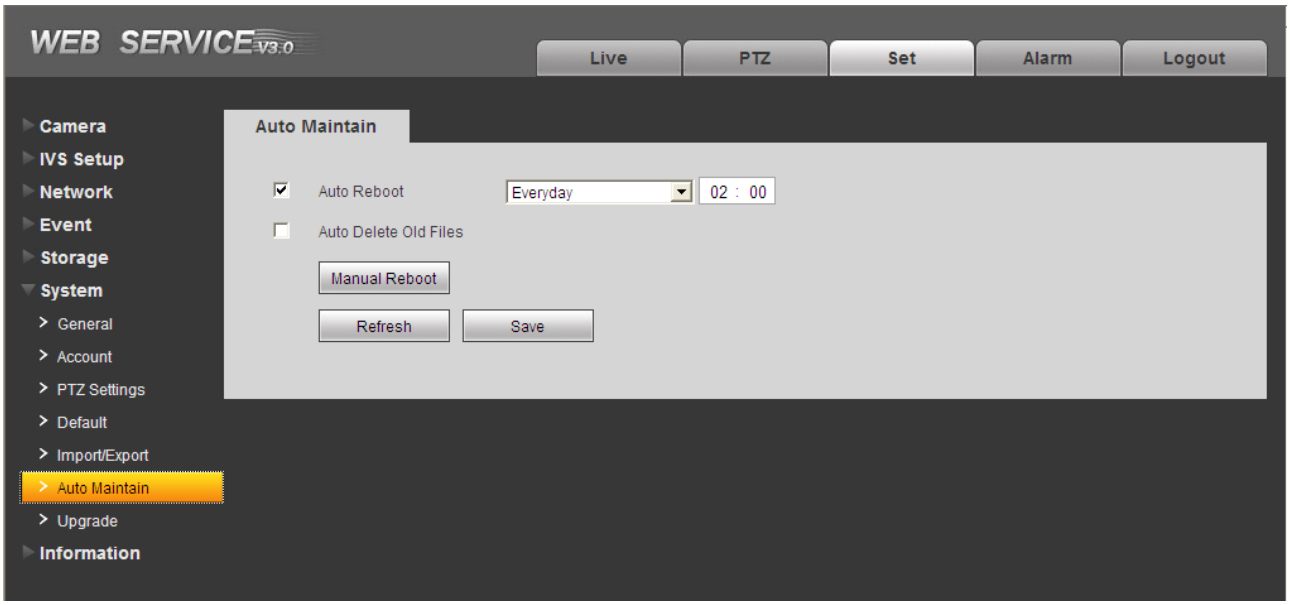

Figure 4-63

4.6.7 Firmware update

The firmware interface is shown as in Figure 4-64.

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

Important

Improper upgrade program may result in device malfunction!

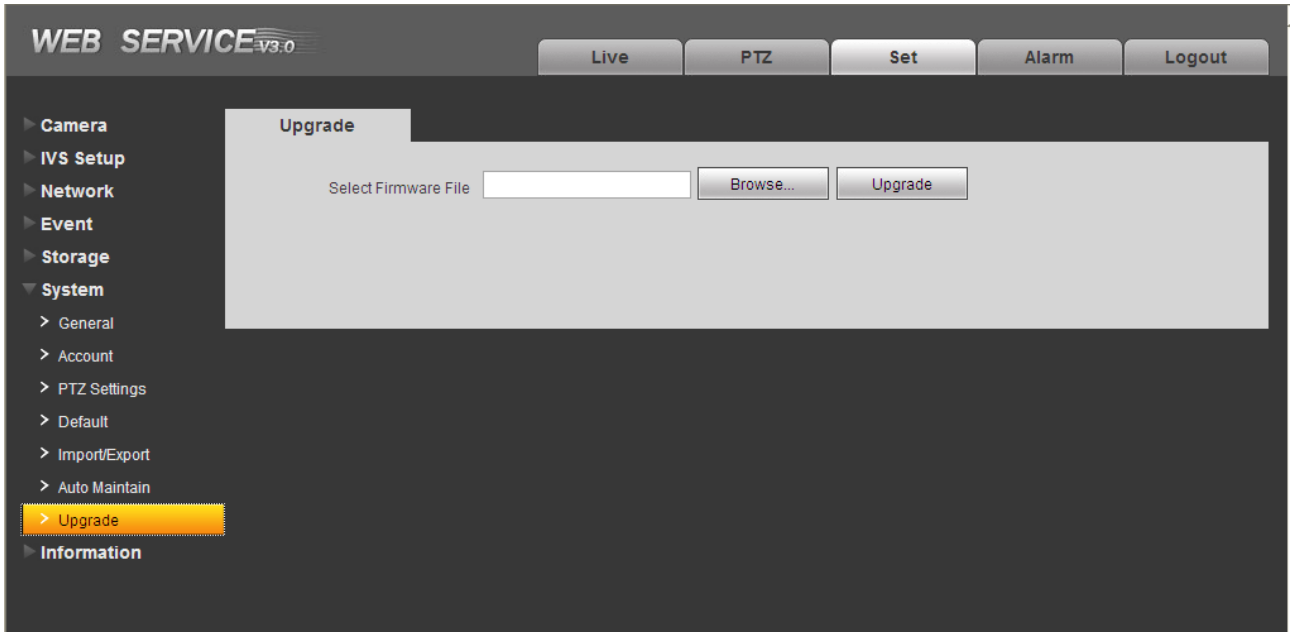

Figure 4-64

4.7 Information

4.7.1 Version

The version interface is shown as in Figure 4-65.

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

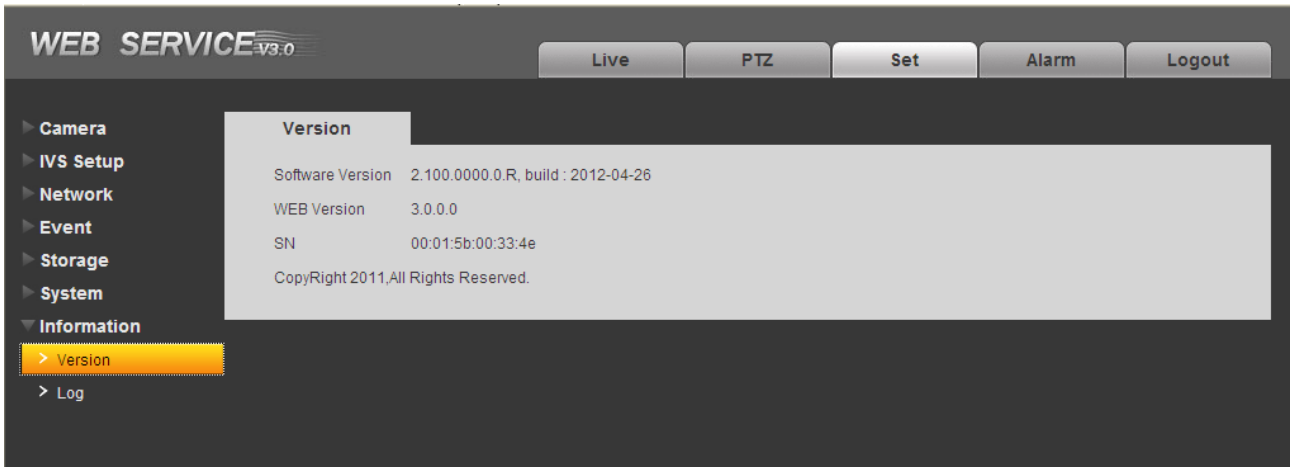

Figure 4-65

4.7.2 Log

Here you can view system log. See Figure 4-66.

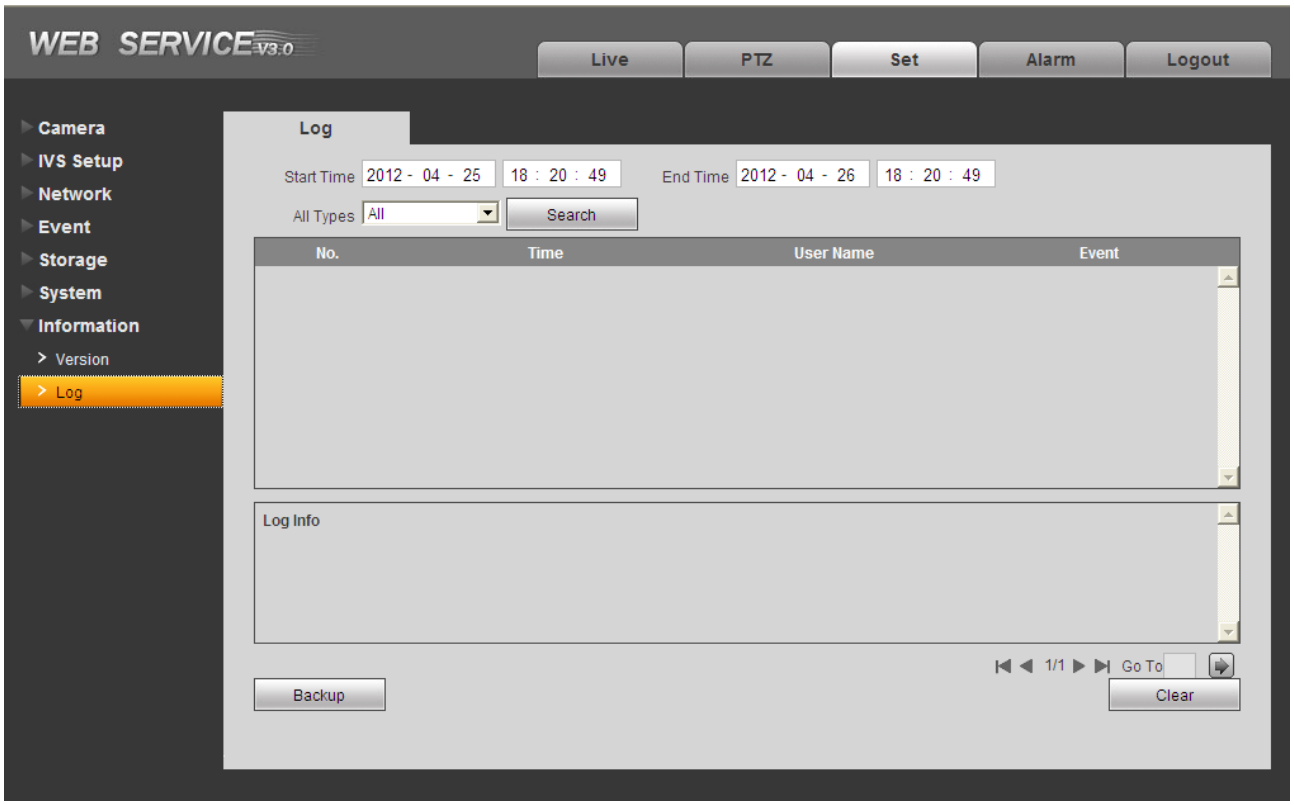

Figure 4-66

Please refer to the following sheet for log parameter information.

Parameter	Function
Type	Log types include: system operation, configuration operation, data operation, event operation, record operation, and 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.

Parameter	Function
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.

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.

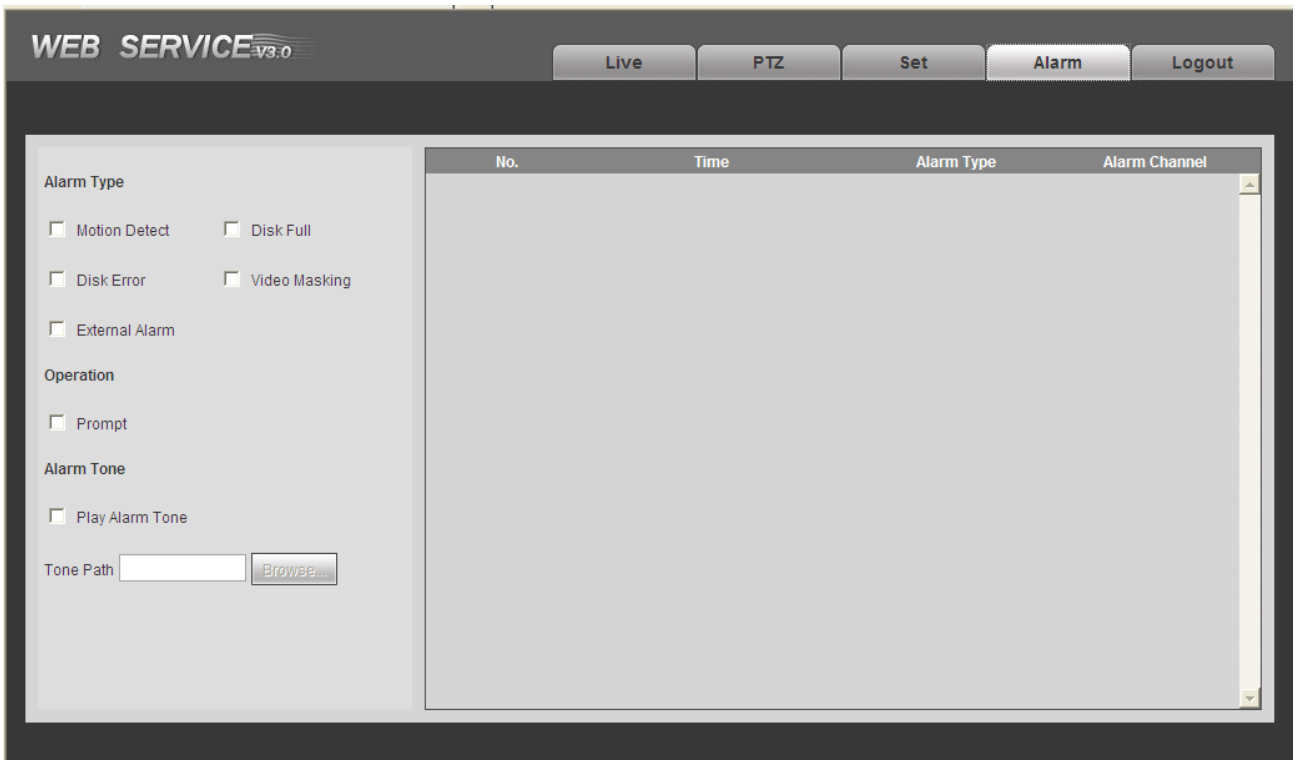

Figure 5-1 Alarm

Please refer to the following sheet for detailed information.

Type	Parameter	Function
Alarm type	Motion detection	System alarms when motion detection alarm 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.

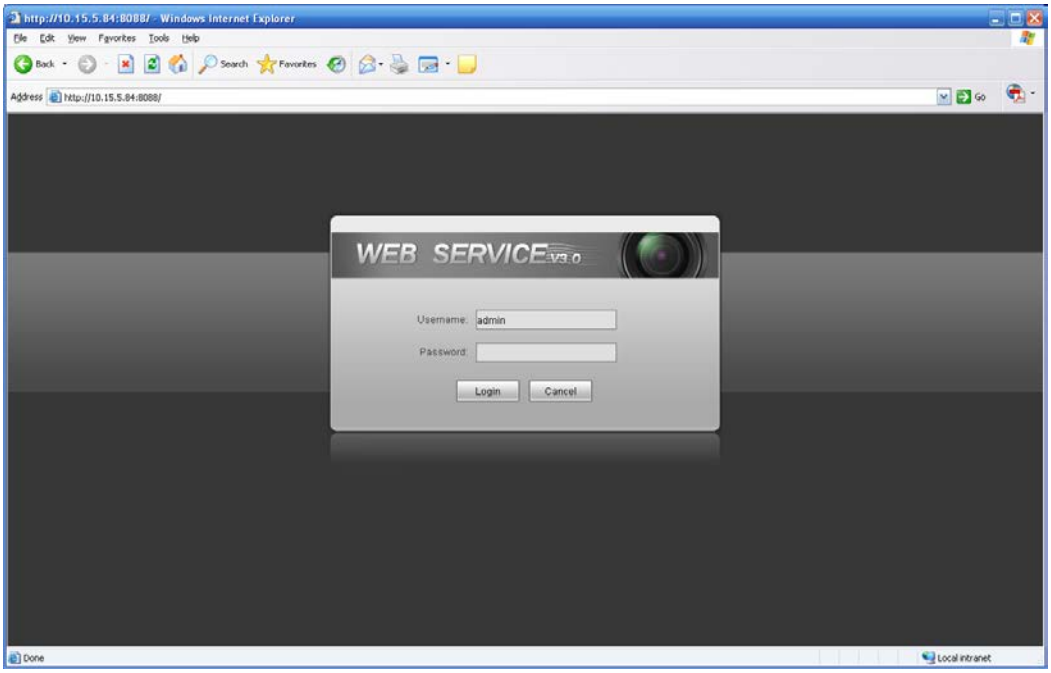

Figure 6-1

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 are the properties of their respective owners.**
- **If there is any uncertainty or controversy, please refer to the final explanation of us.**
- **Please visit our website for more information.**