

Step 2

Click “Add” which is located on the upper right corner of the interface, and then it will add tour path.

Step 3

Click “Add” which is located on the lower right corner, and then it will add several presets.

Step 4

Implement relevant operation upon the tour.

- Double click “Tour Name” to modify the name of the tour.
- Double click “Duration” to set duration for each preset.

Step 5

Click “Start” to start tour.

Note

The device will stop tour if PTZ is operated during tour.

Step 6

Click “Stop” to stop tour.

4.3.2.3 Scan

Scan means the speed dome scanning back and forth within the left and right limit with a certain speed.

Step 1

Select “Setup > PTZ Setting > Function > Scan”.

The system will display the interface of “Scan”, which is shown in Figure 4-66.

Step 2

Click San No.

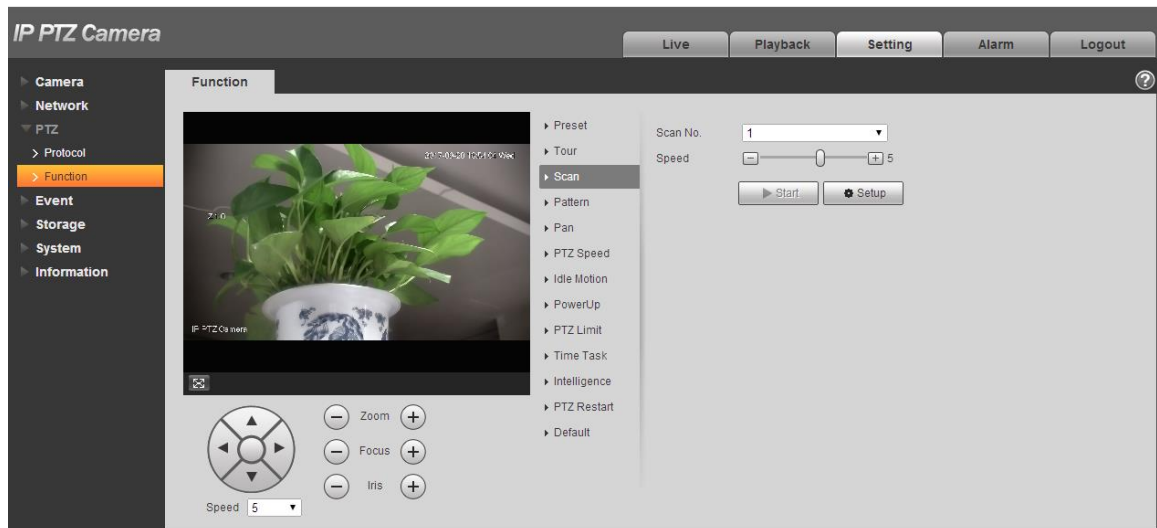


Figure 4-66

Step 3

Drag Speed bar and set scan speed.

Step 4

Click “Setup”, adjust the camera direction to make it reach proper location.

Step 5

Click “Set Left/Right Limit” to set the location as the “Left/Right Limit” of the camera.

Step 6

Click “Start” to start scan.

Step 7

Click “Stop” to stop scan.

4.3.2.4 Pattern

Pattern can continuously record the operations implemented upon the device, such as pan, tilt, zoom, call preset and etc. You can directly call the pattern after it is saved completely.

Step 1

Select “Setup > PTZ Setting > Function > Pattern”.

The system will display the interface of “Pattern”, which is shown in Figure 4-67.

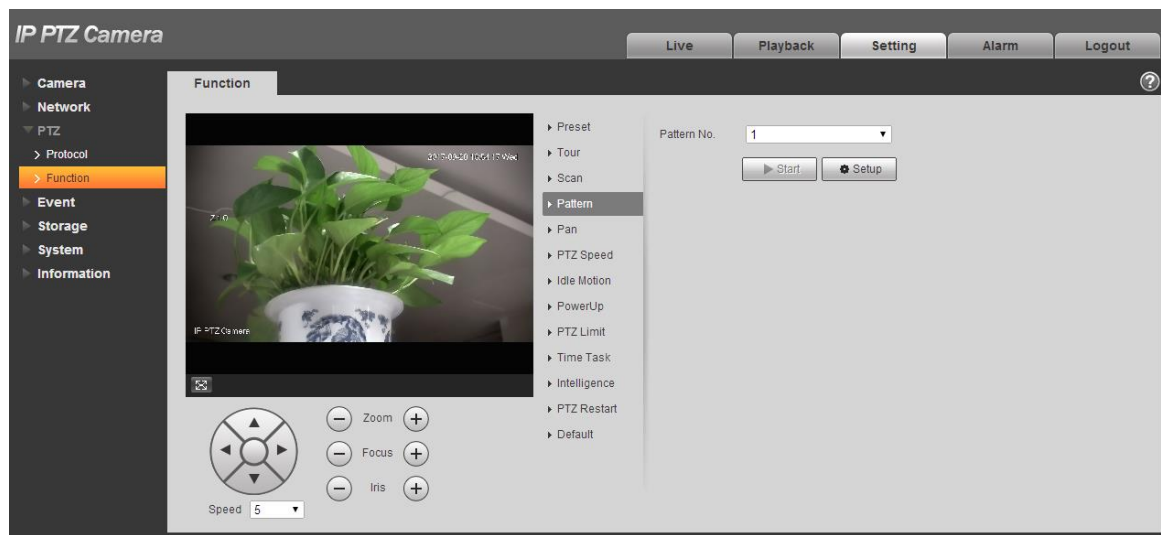


Figure 4-67

Step 2

Select Pattern No.

Step 3

Click “Setup” and click “Start Rec”, operate the PTZ according to the actual needs.

Step 4

Click “Stop Rec” to complete recording.

Step 5

Click “Start” to start pattern.

Step 6

Click “Stop” to stop pattern.

4.3.2.5 Pan

Pan means the speed dome rotating continuously 360° horizontally with a certain speed.

Step 1

Select “Setup > PTZ Setting > Function > Pan”.

The system will display the interface of “Pan”, which is shown in Figure 4-68.

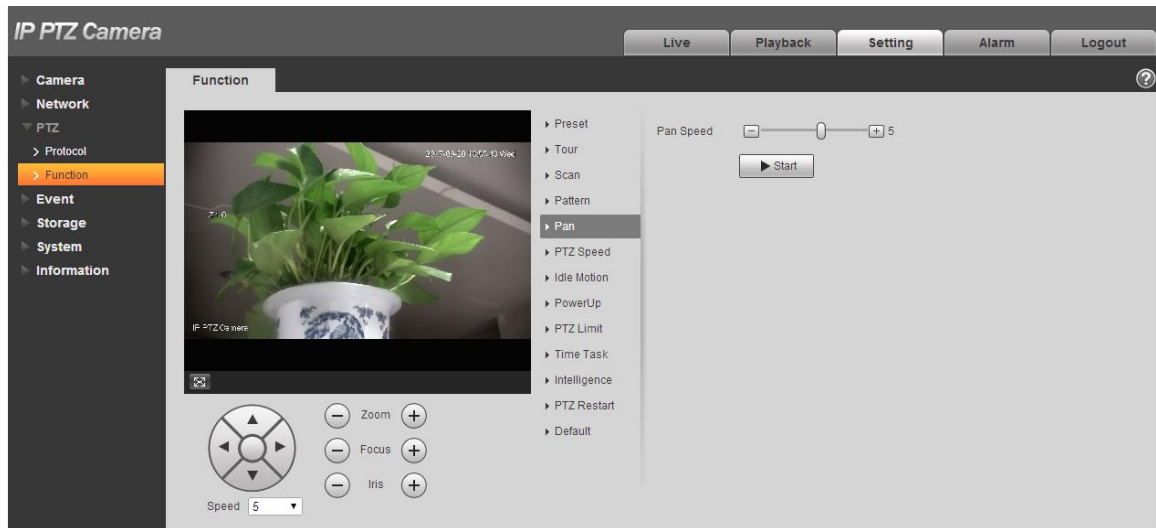


Figure 4-68

Step 2

Drag speed bar and set “Pan Speed”

Step 3

Click “Start” to make the PTZ rotate horizontally with the speed you just set.

Step 4

Click “Stop” to stop pan.

4.3.2.6 PTZ speed

PTZ speed means the rotation speed of the device.

Step 1

Select “Setup > PTZ Setting > Function > PTZ Speed”.

The system will display the interface of “PTZ Speed”, which is shown in Figure 4-69.

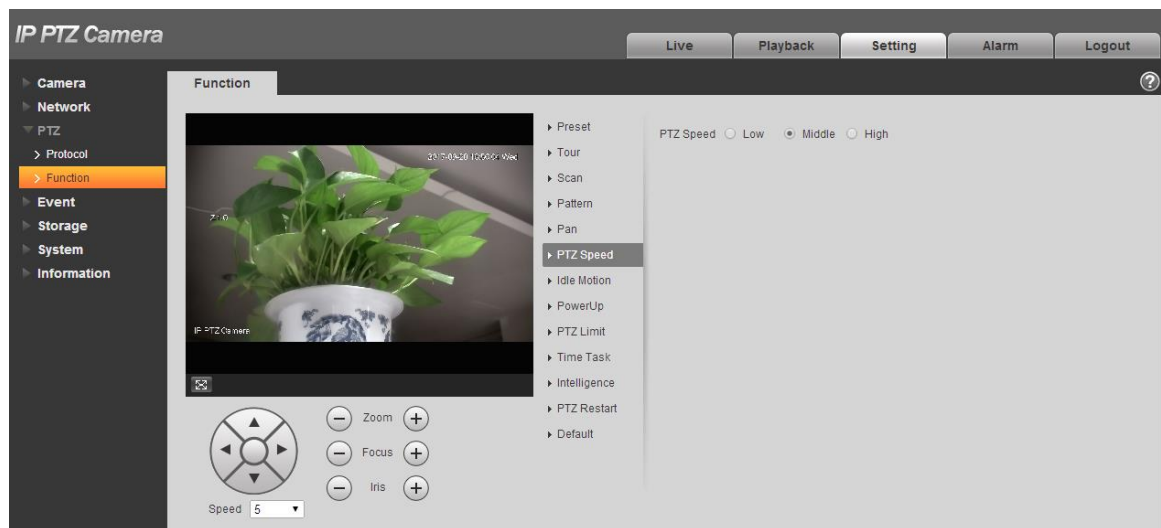


Figure 4-69

Step 2

Select “PTZ speed”, it is “Middle” by default.

The system will make the PTZ rotate with the speed you just set.

4.3.2.7 Idle Motion

Idle motion means the device implementing the behavior which is set in advance when it is not receiving any valid command within the set time.

Note

It needs to set preset, tour, scan and pattern in advance.

Step 1

Select “Setup > PTZ Setting > Function > Idle Motion”.

The system will display the interface of “Idle Motion”, which is shown in Figure 4-70.

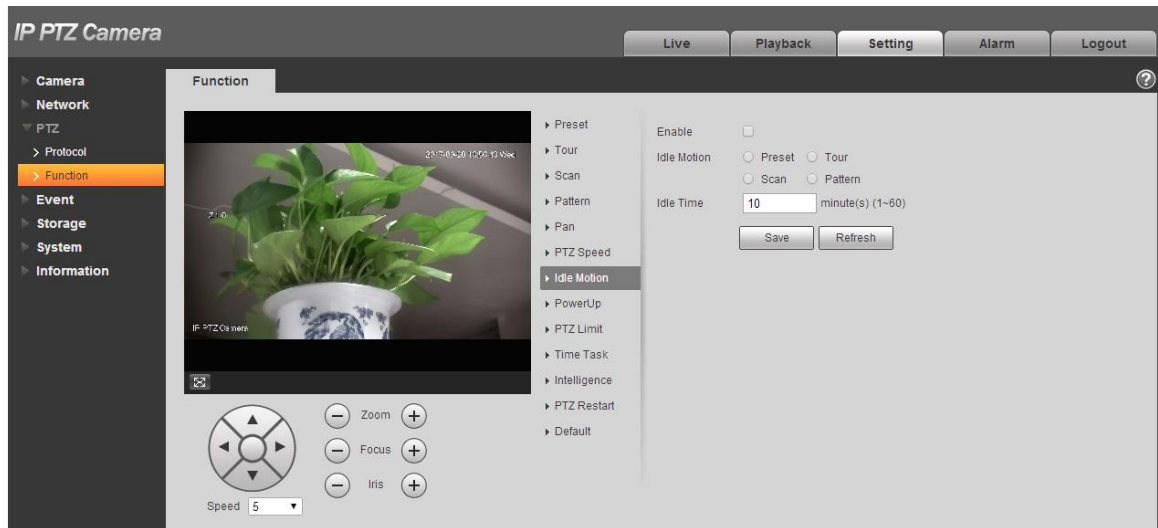


Figure 4-70

Step 2

Select “Enable” to enable idle motion function.

Step 3

Select types of idle motion, which are preset, tour, scan or pattern.

Step 4

Select the number of idle motion.

Step 5

Set the idle time of the selected motion.

Step 6

Click “Save” to complete config.

4.3.2.8 Power Up

It means the motion which is auto operated by the device after it is powered up.

Note

It needs to set preset, tour, scan and pattern in advance.

Step 1

Select “Setup > PTZ Setting > Function > Power up”, which is shown in Figure 4-71.

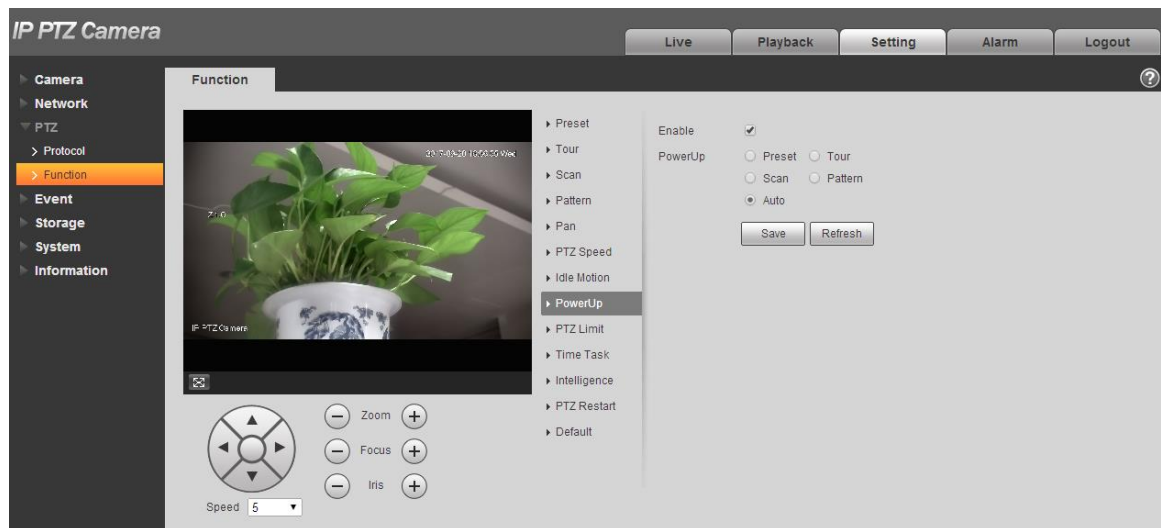


Figure 4-71

Step 2

Select “Enable” to enable PowerUp functions.

Step 3

Select the types of PowerUp; you can select preset, tour, scan, pattern or auto.

Note

The system will implement the last action before the camera’s power is cut off when selecting “Auto”.

Step 4

Select the number of action type.

Step 5

Click “Save” to complete config.

4.3.2.9 PTZ Limit

PTZ limit function is used to set the movement area of the device, which makes the device move within area.

Step 1

Select “Setup > PTZ Setting > Function > PTZ Limit”.

The system will display the interface of “PTZ Limit”, which is shown in Figure 4-72.

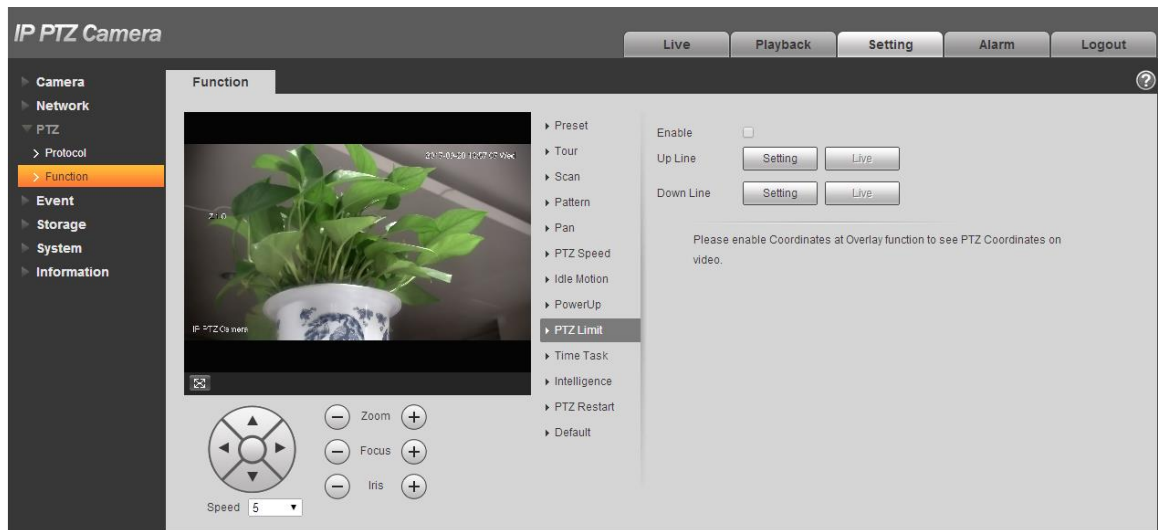


Figure 4-72

Step 2

Select “Enable” to enable PTZ Limit function.

Step 3

Control camera direction; click “Setting” to set up line.

Step 4

Control camera direction; click “Setting” to set down line.

Step 5

Click “Live” to preview the up line and down line which is already set.

4.3.2.10 Time Task

Time task is to implement relevant movements within the set period.

Note

It needs to set preset, tour, scan and pattern in advance.

Step 1

Select “Setup > PTZ Setting > Function > Time Task”.

The system will display the interface of “Time Task”, which is shown in Figure 4-73.

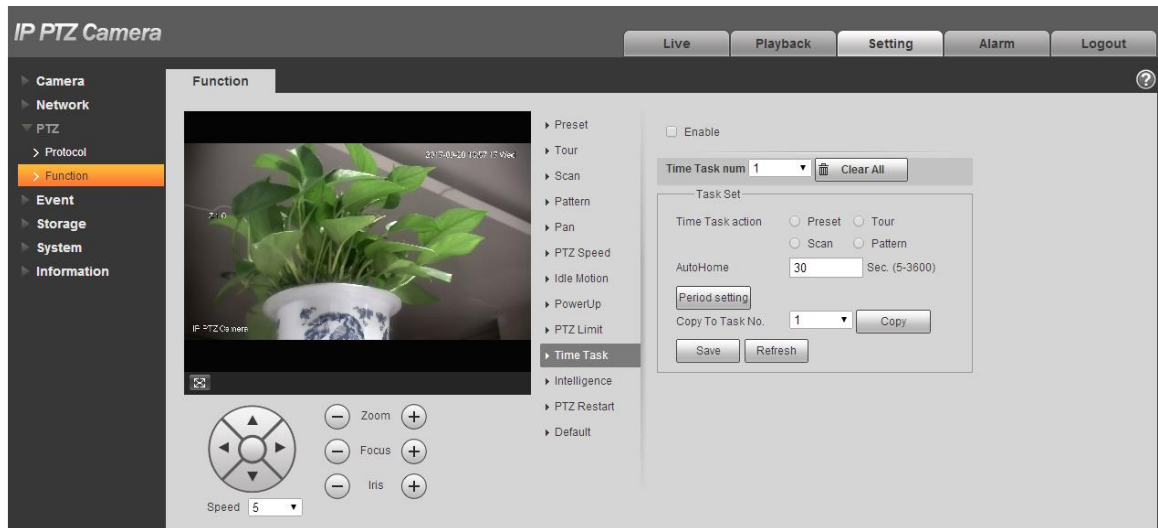


Figure 4-73

Step 2

Select “Enable” to enable the function of time task.

Step 3

It is to set the number of time task.

Note

Click “Clear All” to delete all the time tasks which have been set.

Step 4

Select time take action, you can select preset, tour, scan or pattern.

Step 5

Select action number.

Step 6

Set the time of auto home.

Note

Auto home time means the time it needs to take to auto recover time task when manually calling PTZ and interrupting time task.

Step 7

Click “Period Setting” to set the period of implementing time task.

Step 8

Click “Copy” and select task number, then you can copy it to the task whose number has been selected.

Step 9

Click ‘Save” to complete config.

4.3.2.11 Intelligence

It is to set the tracking duration of the camera. The config steps are shown as follows:

Step 1

Select “Setup > PTZ > Function > Intelligence” and the system will display the interface of “Intelligence”, which is shown in Figure 4-74.

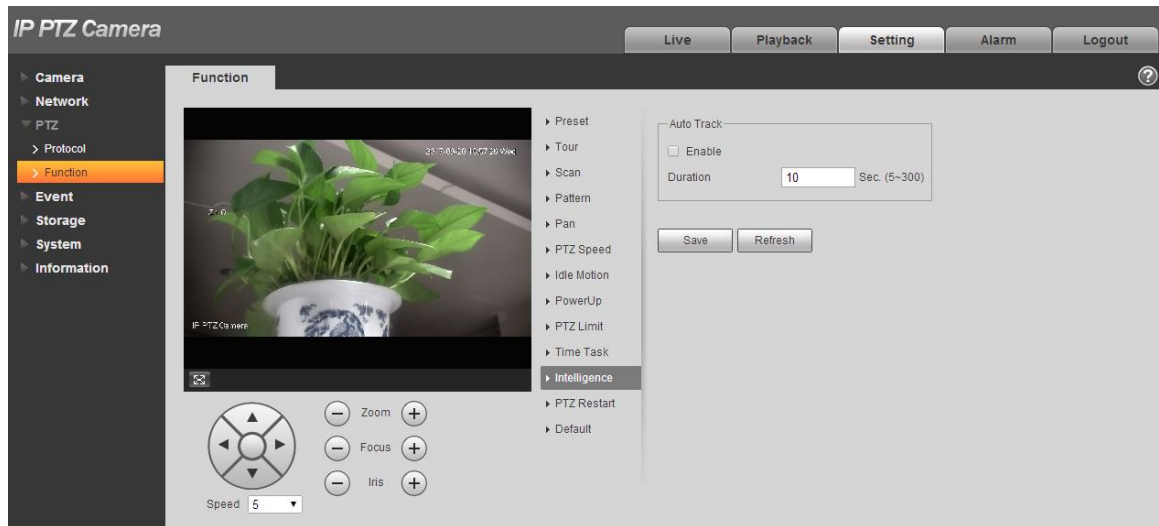


Figure 4-74

Step 2

Select “Enable” to enable auto tracking function.

Step 3

Input the duration of auto tracking.

Step 4

Click “Save” to complete config.

4.3.2.12 PTZ Restart

Step 1

Select “Setup > PTZ Setting > Function > PTZ Restart”.

The system will display the interface of “PTZ Restart”, which is shown in Figure 4-75.

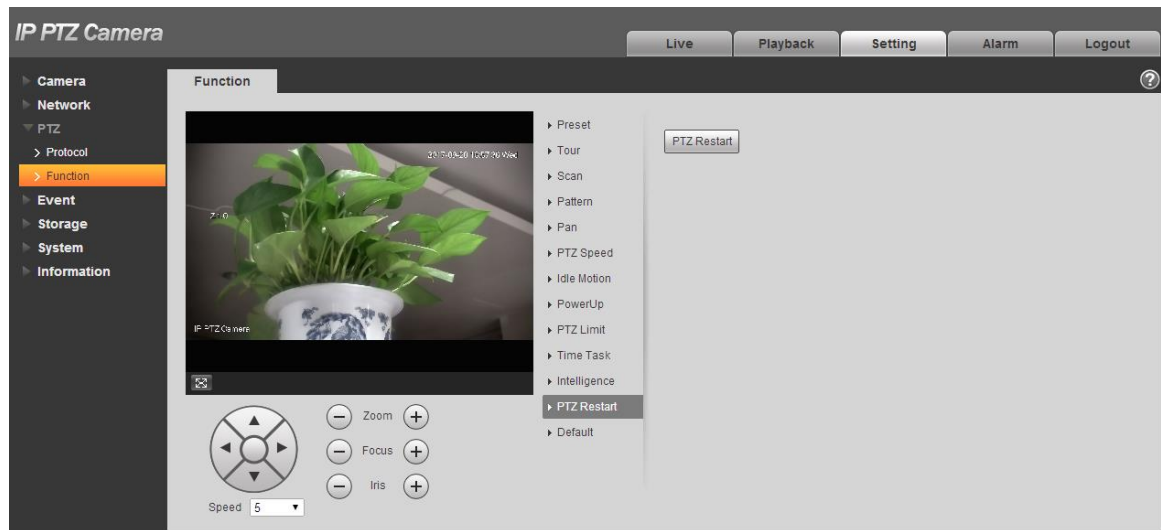


Figure 4-75

Step 2

Click “PTZ Restart” and the system will restart PTZ.

4.3.2.13 Default

The function can recover default settings of the PTZ. The config steps are shown as follows:

Note

The function will delete all the PTZ config made by users, please operate after confirmation.

Step 1

Select “Setup > PTZ Setting > Function > Default”.

The system will display the interface of “Default”, which is shown in Figure 4-76.

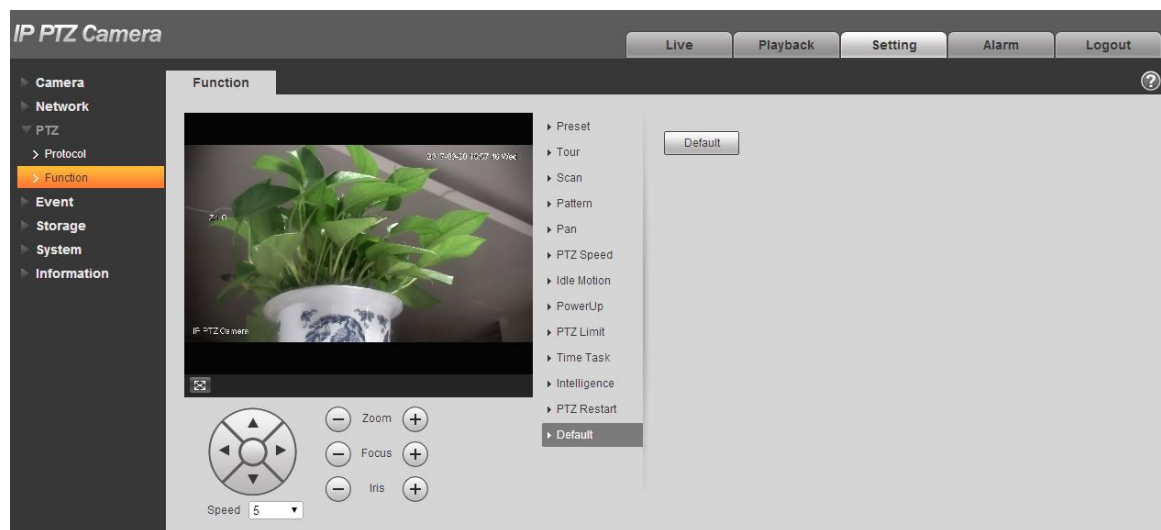


Figure 4-76

Step 2

Click “Default” to recover all the default settings.

4.4 Event

4.4.1 Video Detection

Video detection includes motion detection, video tamper and scene changing. The config steps are shown as follows.

4.4.1.1 Motion Detection

Step 1

Select “Setup > Event > Video Detection > Motion Detection”.

The system will display the interface of “Motion Detect”, which is shown in Figure 4-77.

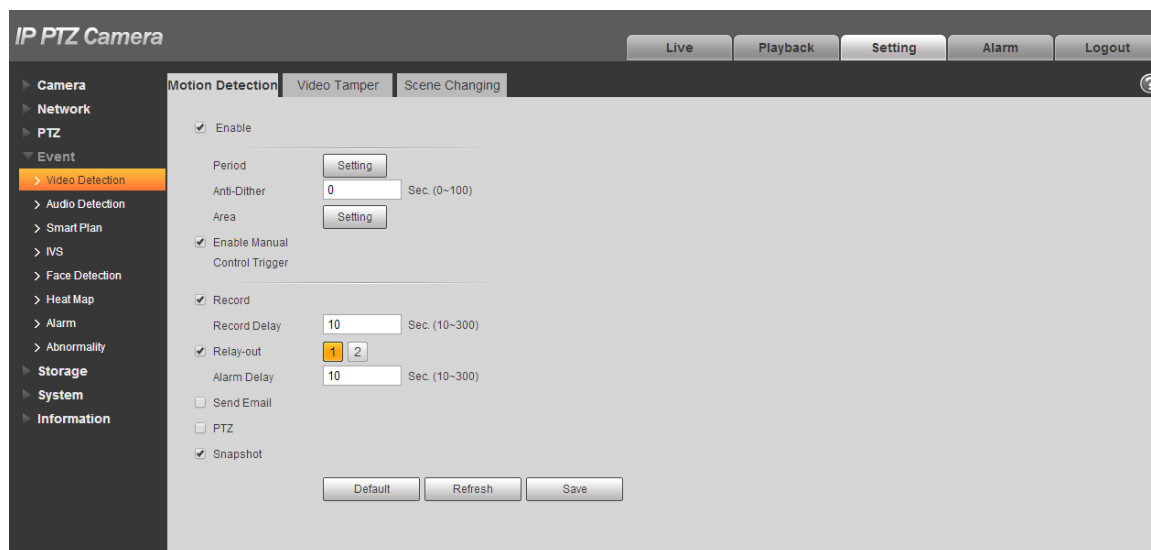


Figure 4-77

Step 2

Click “Enable” and configure info of each parameter according to the actual needs.

- Set working period.

Click “Setup”, and it will display the interface of working period in Figure 4-78.

Figure 4-78

- ◆ Set alarm period, it can enable alarm event within the range of set period.
- ◆ There are totally six periods to set every day, click the check box in front of the period, and then the period can be valid.
- ◆ Select week number (default is Sunday, if users select the whole week, it means setting can be applied to the whole week; users can also select the check box in front of the day to make separate setting for some days).
- ◆ Click “Save” button after setup, return to motion detect page.

Note

You can also set working period via pressing left mouse button and dragging it on the setup interface.

- Set area

Click “Setup” and you can set area in the interface shown in Figure 4-79.

Different colors represent different areas. Each area can set different detection zones. Detection zone can be irregular and discontinuous.

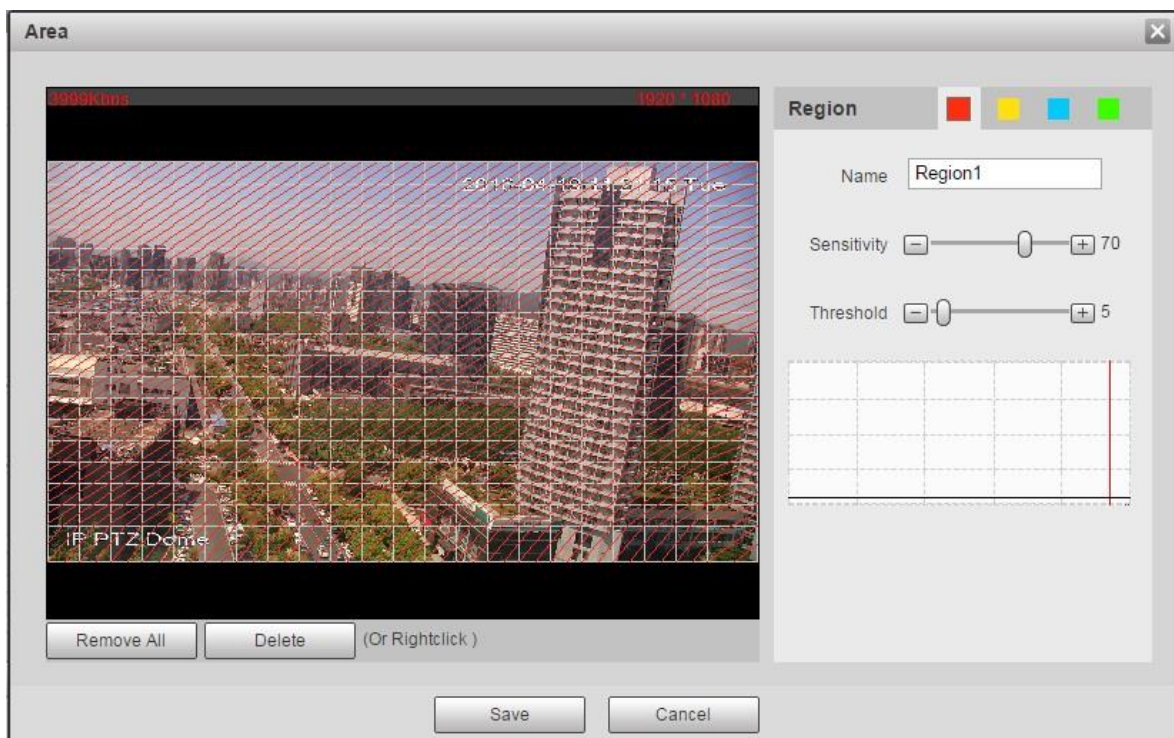


Figure 4-79

Parameter	Function
Name	Default area name includes Region 1, Region 2, Region 3, Region 4 and custom.
Sensitivity	It is sensitivity of brightness as motion detection is more possible to be trigger with high sensitivity. You can set up to four areas. The range is 0~100. The recommended value is 30~70.
Area threshold	It is to check target object area related to detection area. The lower the area threshold, the easier to trigger motion detection. You can set up to four areas. The range is 0~100. The recommended value is 1~10.
Waveform	Red means motion detection is triggered. Green means motion detection is not triggered.
Delete all	Clear all areas.
Delete	Delete selected area.

Table 4-23

- Other parameters

Parameter	Function
Anti-dither	System only memorizes one event during the anti-dither period. The unit is second, the value ranges from 0s to 100s.
Manual Control Excluded	Click it and it will generate motion detection event when excluding manual control, which can reduce the false alarm rate of motion detection event.
Record	Check it and so when alarm occurs, system will auto record. You shall set record period in Storage>Schedule and select auto record in record control interface.
Record Delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Relay out	Check it to enable alarm activation output port, it can activate corresponding alarm output device when alarm occurs.
Alarm delay	It means alarm delays a period of time to stop after alarm ends, the unit is second, and 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. User can set email address in Network>SMTP.
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. You shall set snapshot period in Storage>Schedule.

Table 4-24

Step 3

Click “Save” to complete config.

4.4.1.2 Video Tamper

Step 1

Select “Setup > Event > Video Detect > Video Tamper”.

The system will display the interface of “Video Tamper”, which is shown in Figure 4-80.

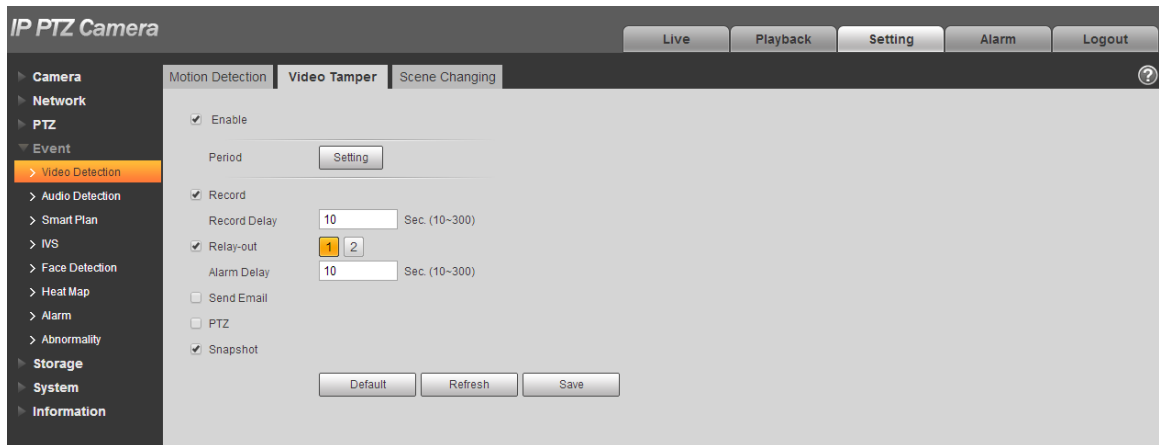


Figure 4-80

Step 2

Click “Enable” and configure info of each parameter according to the actual needs.

Note

Please refer to “4.4.1.1 Motion Detection” for more details about parameter config.

Step 3

Click “Save” to complete config.

4.4.1.3 Scene Changing

Step 1

Select “Setup > Event > Video Detection > Scene Changing”. The system will display the interface of “Scene Changing”, which is shown in Figure 4-81.



Figure 4-81

Step 2

Click “Enable” and then configure parameter info according to the actual requirements.

Note

Please refer to “4.4.1.1 Motion Detection” for more details about parameter config.

Step 3

Click “Save” to complete configuration.

4.4.2 Audio Detection

Step 1

Select “Setup > Event > Audio Detection”.

The system will display the interface of “Audio Detection”, which is shown in Figure 4-82.

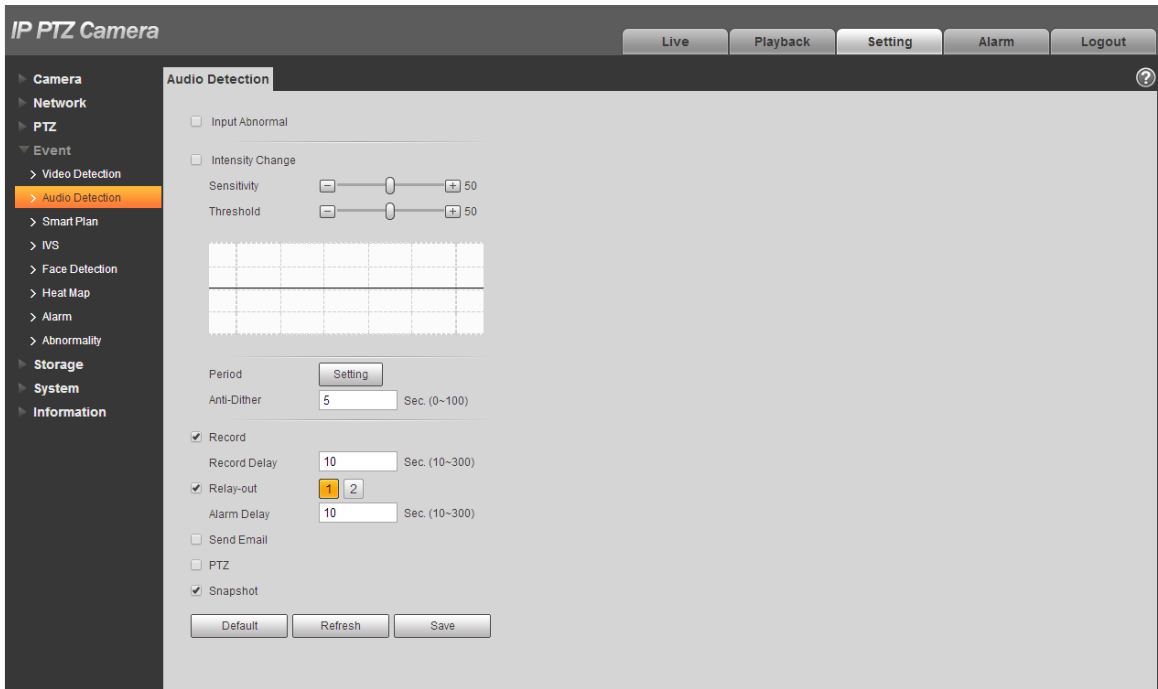


Figure 4-82

Step 2

Configure info of each parameter according to the actual needs; please refer to the following sheet for more details.

Parameter	Function
Enable Input Abnormal	Check “Enable Input Abnormal” and it will activate alarm when detecting audio input abnormal.
Enable Intensity Change	Check “Enable Intensity Change” and it will activate alarm when detecting audio intensity change surpass threshold.

Parameter	Function
Sensitivity	Levels range from 1 to 100 and adjustable, the smaller the value, it means the input sound volume change surpassing continuous environment volume and it can be judged as audio abnormal, users can adjust according to the actual environment testing.
Threshold	Levels range from 1 to 100 and adjustable, which is used to set filtered environment sound intensity. If the environment noise is bigger, users need to set the value higher. Besides, users can adjust it according to the actual environment testing.

Table 4-25

Note

Please refer to “4.4.1.1 Motion Detection” for description of other parameters.

Step 3

Click “Save” to complete config.

4.4.3 Smart Plan

Statistics intelligent functions such as heat map, people counting can't coexist with the intelligent functions related to preset, it needs users to select first. Each preset can set different intelligent function, the corresponding setting can be valid only when it selects exact intelligent function.

Note

- It needs to set preset in advance, please refer to “4.3.2.1 Preset” for setting method.
- Heat map and preset are added plans, which can't be enabled at the same time.

Step 1

Select “Setup > Event > Smart Plan”. The system will display the interface of “Smart Plan”, which is shown in Figure 4-83.

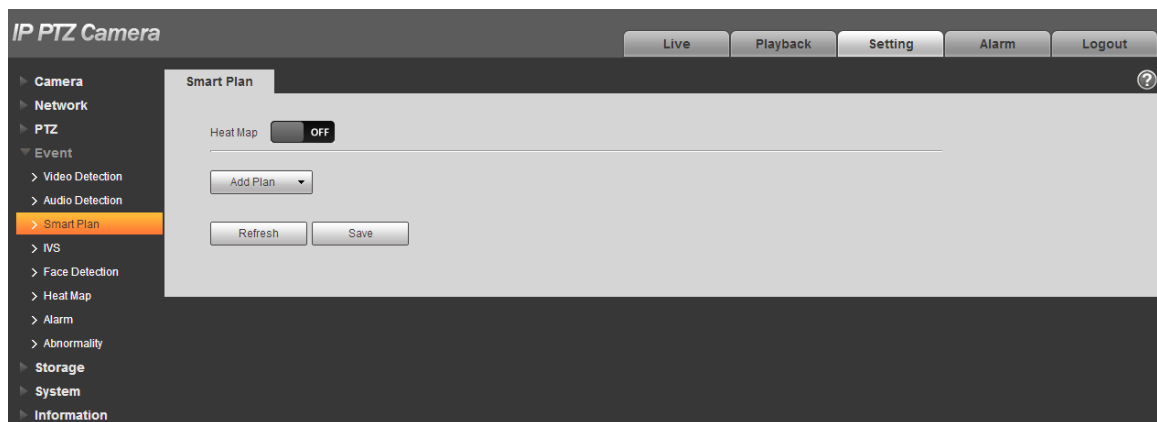


Figure 4-83

Step 2

Enable corresponding intelligent functions according to the requirements.

- Enable heat map or face detection function.
 1. Click the sliding block in  to enable the function switch.
 2. Click heat map or face detection function to enable corresponding intelligent functions. The selected intelligent function appears to be bright, click it to cancel the selected intelligent function.
- Enable IVS, face detection function.
 1. Select preset in the “Add Plan”. The system will display corresponding plan of the preset.
 2. Click IVS, face detection to enable corresponding functions.

Step 3

The selected intelligent function appears to be bright, you can click it to cancel the function.

4.4.4 IVS

Basic requirements for scene selection:

- The total proportion of the target shall not exceed 10% of the image.
- The target size in the image shall not be less than 10 pixel × 10 pixel, the size of abandoned target shall be less than 15 pixel × 15 pixel (CIF image); the width of target shall be less than one third of the image; it is recommended that the target height shall be around 10% of the image.
- The brightness value of target and background shall be no less than 10 gray levels.
- It has to guarantee that the target has to appear at least more than 2 seconds in the view, the movement distance exceeds the width of the target itself and it is no less than 15 pixels (CIF image).
- Try to lower the complexity of the monitoring analysis scene if possible; It is not recommended to use intelligent analysis functions in the scene where the target is very crowded and light changes frequently.
- Try to keep away from glass, ground reflect light, water surface and other areas; try to keep away from branches, shadow and mosquito interference area; try to keep away from backlight scene, avoid direct light.

Note

- It needs to set preset in advance, please refer to “4.3.2.1 Preset” for more details about preset setting.
- Heat map and intelligent function added by preset can't be enabled at the same time.

4.4.4.1 IVS

Step 1

Select “Setup > Event > Intelligent Behavior > Config”.

The system will display the interface of “Rule Config”, which is shown in Figure 4-84

Step 2

Select the preset which needs to be configured with intelligent rules.

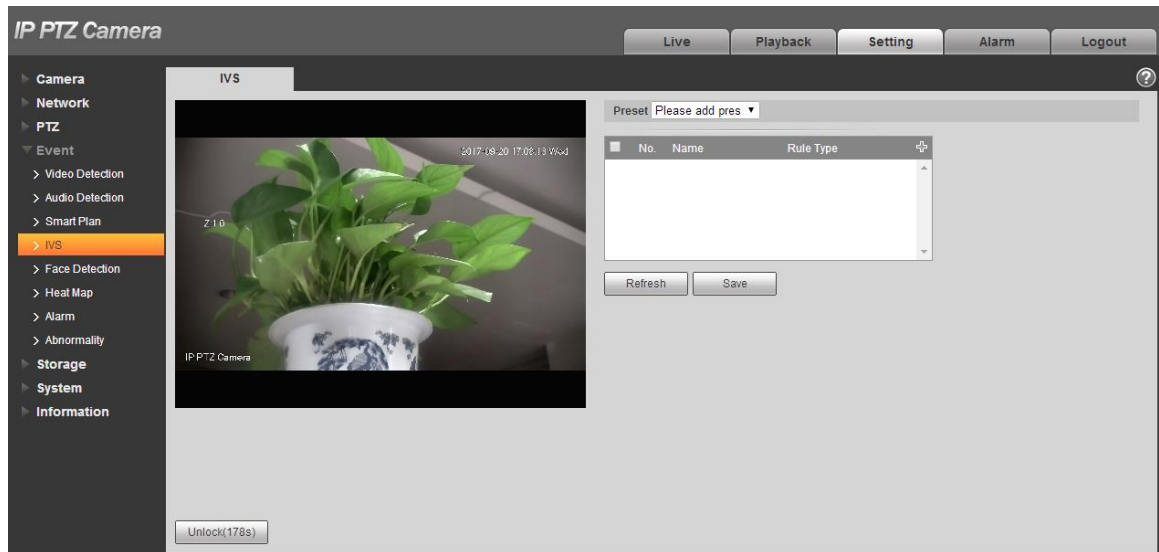


Figure 4-84

Step 3

Click  to add intelligent rules.

Note

- Double click “Rule Type” to modify the type of rules.
- Enter rule config interface, the lock function is enabled automatically, the locking time is 180s, during this period, other control modes are invalid except manual control over the speed dome. You can click “Unlock” to unlock it.

Step 4

Click “Save” to complete config.

4.4.4.1.1 Tripwire

It will trigger alarm when the target crosses the warning line according to the set movement direction. It needs some time and space to confirm the target after it appears, so it needs to leave some space on both sides of the warning line when setting warning line, please don't set it near the obstacle. Application scene: it can only be applied to the scene where the target is sparse and it is basically blocked between targets, such as the perimeter protection area without security guard.

The config steps are shown as follows:

Step 1

Select rule type as “Tripwire” and the config interface is shown in Figure 4-85.

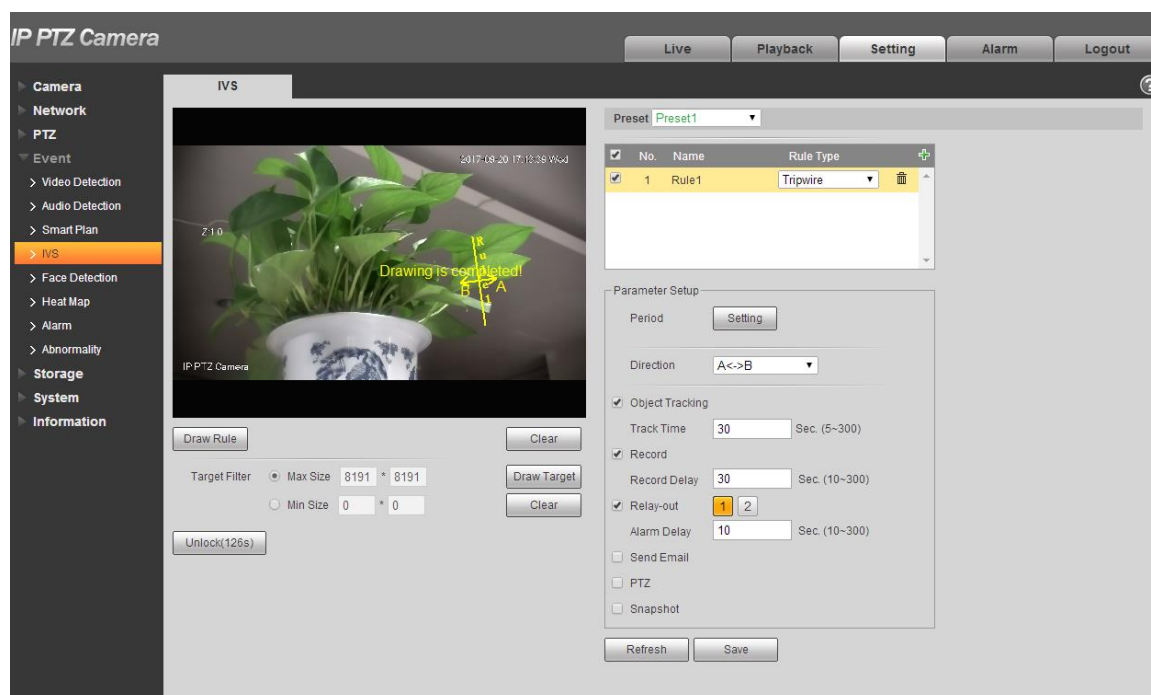


Figure 4-85

Step 2

Click “Draw Rule” and draw rules in the monitoring image.

Note

Click “Clear” on the right of “Draw Rule” to clear all the rules which have been drawn.

Step 3

Configure parameter info according to the actual needs. Please refer to Table 4-26 for more details.

Parameter	Note
Working period	Note Set alarm period, it can enable alarm event within the range of set period. Click “Setup” to pop out setting interface of “Working Period”. - You can input time number value or press the left mouse button, and drag on the setting interface directly. - There are totally six periods to set every day, click the check box in front of the period, and then the period can be valid. - Select week number (default is Sunday, if users select the whole week, it means setting can be applied to the whole week; users can also select the check box in front of the day to make separate setting for some days). Click “Save” button after setup is completed, return to rule config setting interface, click “Save” to complete period setting of tripwire.

Parameter	Note
Direction	It is set the direction of tripwire, you can select A→B、B→A、A↔B.
Alarm track	Check it and it will generate alarm track when the target triggers intelligent rules.
Track time	It is to set the time of track time.
Record	Check it and so when alarm occurs, system will auto record. You shall set record period of alarm in “Storage>Schedule” and select auto record in record control interface.
Record delay	System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
Relay out	Check it to enable alarm activation output port, it can activate corresponding alarm output device when alarm occurs.
Alarm delay	It means the alarm delays a period of time to stop after alarm ends, the unit is second, and the value ranges from 10s to 300s.
Send Email	Check it and the system can send out email to inform users when alarm occurs. User can set email address in “Network>SMTP (email)”.
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	Check it and the system can realize alarm snapshot automatically when alarm occurs, meanwhile it needs to set snapshot period of alarm in “Storage>Schedule”.
Target filter	Check some intelligent rule, click “Draw Target”, then you can draw the model of filter target according to the rule in the scene. Click “Clear” to delete all the target filter models which have been drawn.

Table 4-26

Step 4

Click “Save” to complete config.

4.4.4.1.2 Intrusion

Intrusion includes cross area and in area functions.

- Crossing area means that it will trigger alarm when target entering or leaving area.

- In area function means that it will trigger alarm when certain amount of target appear in the designated area within specific time. In area function is only responsible for the statistics of the target quantity in the detection area without considering whether the target is the same or not.
- As for the report interval of the in area function, the system can detect if the same event will occur within the interval after triggering the first alarm, the alarm counter will clear itself if no same event occurs during the period.

As it is similar to the warning line, it also needs to leave some movement space for the target out of the area line if it is to detect enter and leave events

Application scene: It can only be applied to the scene where the target is sparse and it is basically mutually blocked between targets, such as the perimeter protection area without security guard.

The config steps are shown as follows:

Step 1

Select the rule type as “Intrusion” and the config interface is shown in Figure 4-86.

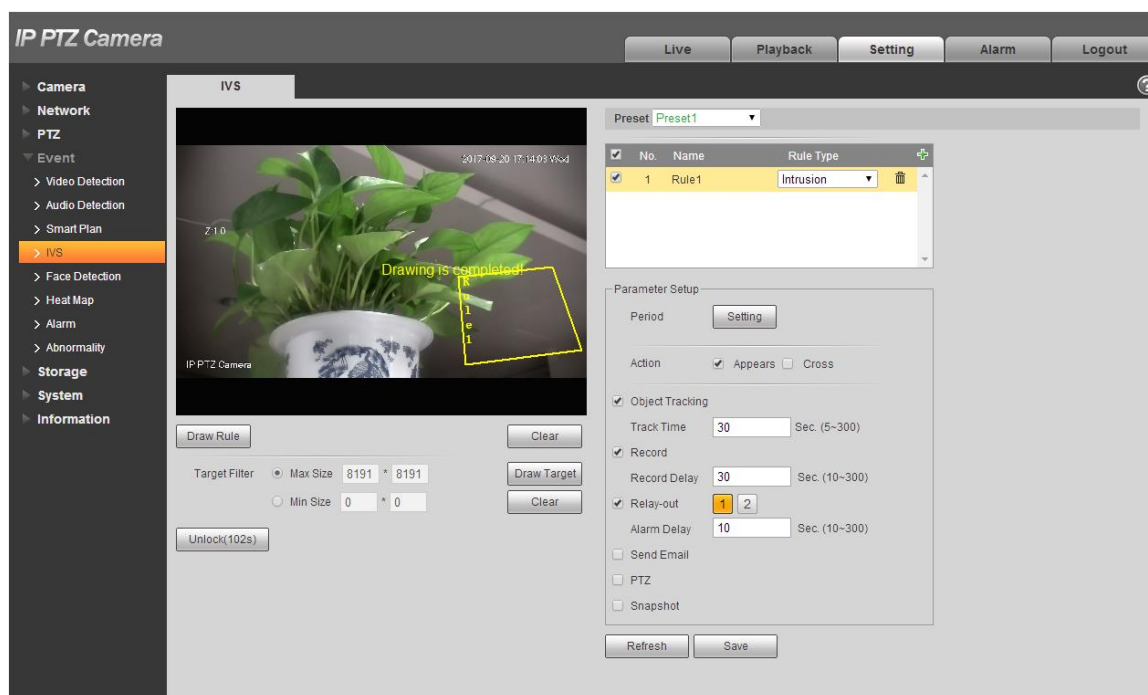


Figure 4-86

Step 2

Click “Draw Rule” to draw rules in the monitoring image.

Note

Click “Clear” on the right of “Draw Rule” to clear all the rules which have been drawn.

Step 3

Configure parameter info according to the actual needs. Please refer to Table 4-27 for more details.

Parameter	Note
Action	It is to set the actions of intrusion, you can select appear and cross.
Direction	It is to set the direction of cross area, you can select enter, leave, enter & leave.

Table 4-27

Please refer to “4.4.4.1.1 Tripwire” for more details about other parameters.

Step 4

Click “Save” to complete config.

4.4.4.1.3 Abandoned Object

It means triggering alarm when the abandoned object exceeds the time set by users in the monitoring scene.

Abandoned and missing object detection can be confusing in a situation where foreground and background is both very complex.

It will trigger alarm when pedestrians or vehicles stay still for a long time, which is considered as abandoned object. In order to filter this kind of alarm, generally the abandoned object is smaller than person and vehicle; therefore it can filter person and vehicle via setting filter size. Besides, it can avoid false alarm of short stay for people via extending alarm time.

Application scene: It can be applied to the scene where the target sparse and there is no obvious and frequent light change. As for the scene with high target density and frequent blocking, alarm leakage will increase; as for the scene with more people to stay, false alarm will increase. As for the detection area, it is required to be simple; it can't be applied to complicated areas.

The config steps are shown as follows:

Step 1

Select rule type as “Abandoned Object” and the config interface will be shown in Figure 4-87.

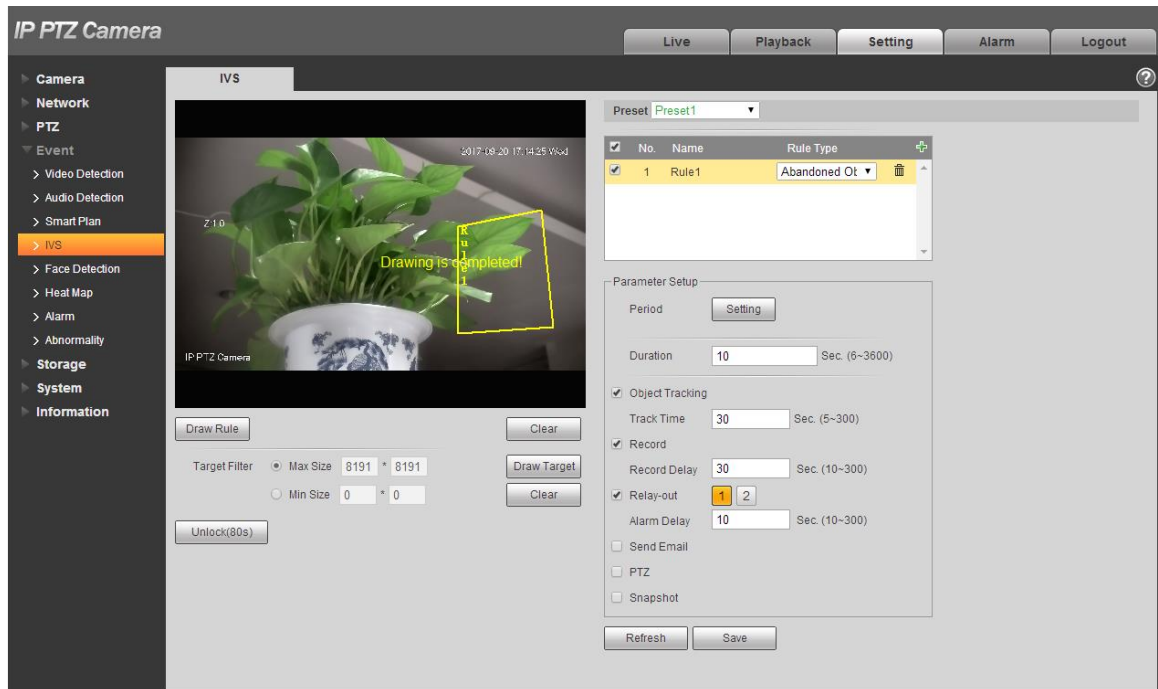


Figure 4-87

Step 2

Click “Draw Rule” to draw rules in the monitoring image.

Note

Click “Clear” on the right of “Draw Rule” to clear all the rules which have been drawn.

Step 3

Configure parameter info according to the actual needs. Please refer to Table 4-28 for more details.

Parameter	Note
Duration	It is to set the shortest time from object abandoned to trigger alarm.

Table 4-28

Please refer to “4.4.4.1.1 Tripwire” for more details about other parameters.

Step 4

Click “Save” to complete config.

4.4.4.1.4 Missing Object

It means it will trigger alarm after the target in the scene is taken and exceeds a certain period of time. The system will make statistics for the still areas in the foreground area, and distinguish whether it is missing object or abandoned object according to the similarity between foreground and background, it will trigger alarm when it exceeds the time set by users.

It may cause mistake when distinguishing abandoned object from missing object when both foreground and background are very complex.

Application scene: It can be applied to the scene where the target sparse and there is no obvious and frequent light change. As for the scene with high target density and frequent blocking, alarm leakage will increase; as for the scene with more people to stay, false alarm will increase. As for the detection area, it is required to be simple; it can't be applied to complicated areas.

The config steps are shown as follows:

Step 1

Select rule type as “Missing Object” and the config interface is shown in Figure 4-88.

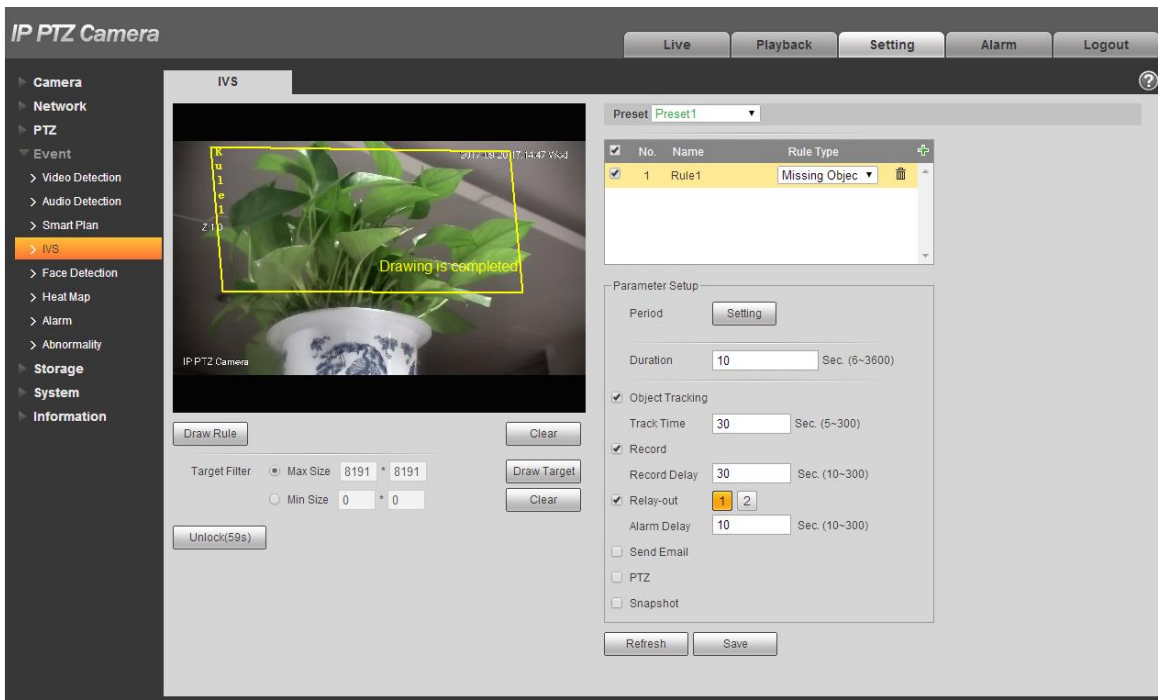


Figure 4-88

Step 2

Click “Draw Rule” to draw rules in the monitoring image.

Note

Click “Clear” on the right of “Draw Rule” to clear all the rules which have been drawn.

Step 3

Configure parameter info according to the actual needs. Please refer to Table 4-29 for more details.

Parameter	Note
Duration	It is to set the shortest time from object disappears to trigger alarm.

Table 4-29

Please refer to “4.4.4.1.1 Tripwire” for more details about other parameters.

Step 4

Click “Save” to complete config.

4.4.5 Face Detection

Note

It needs to add preset and enable the smart function before enabling the function.

You can detect face and make snapshot in complex environment via face detection function.

Step 1

Select “Setup > Event > Face Detect”.

The system will display the interface of “Face Detection”, which will be shown in Figure 4-89.

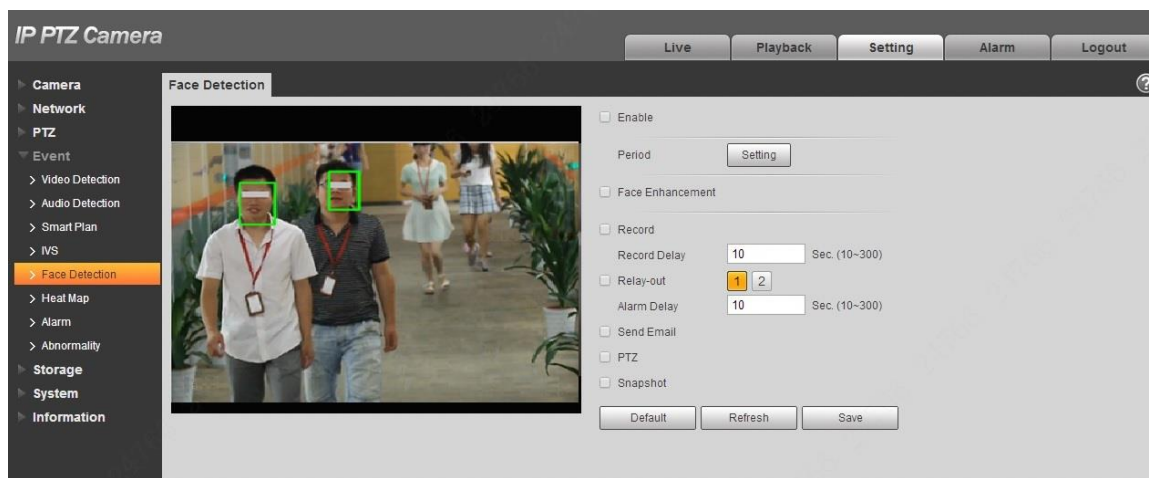


Figure 4-89

Step 2

Select “Enable” to enable face detection.

Step 3

Configure parameter info according to the actual needs. Please refer to “4.4.4.1.1 Tripwire” for more details about other parameters.

Step 4

Click “Save” to complete config.

4.4.6 Heat Map

Note

It needs to add preset and enable the intelligent function before enabling the function.

4.4.6.1 Heat Map

It is used to detect the activity level of moving object in the scene within a certain period of time.

Step 1

Select “Setup > Event > Heat Map > Heat Map”.

The system will display the interface of “Heat Map”, which is shown in Figure 4-90.

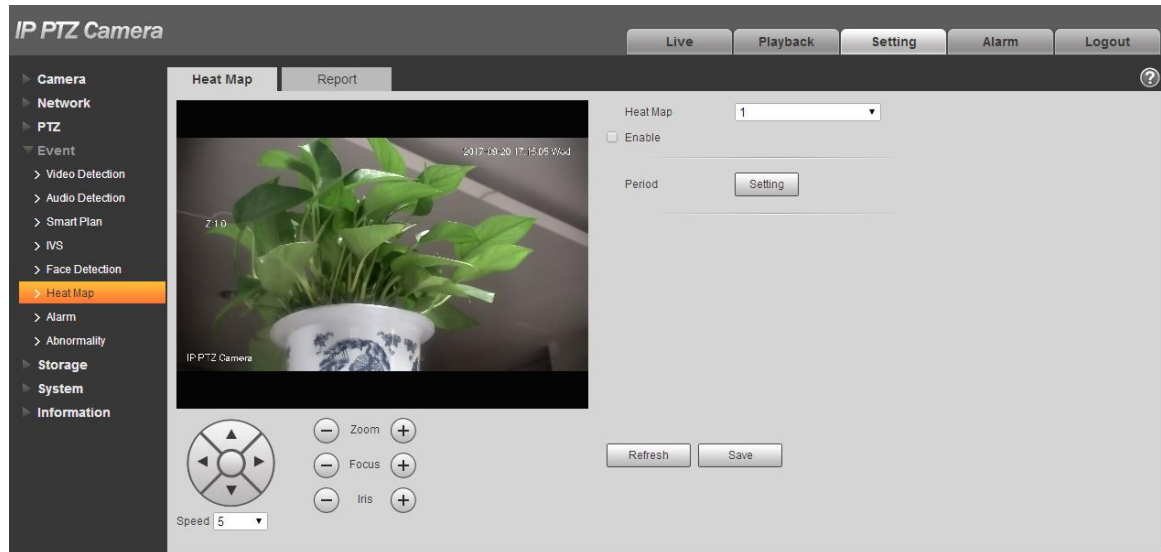


Figure 4-90

Step 2

Select the number of heat map.

Step 3

Select “Enable” to enable the function of heat map.

Step 4

Click “Setting” to set working period, please refer to “4.4.1.1 Motion Detection” for more details.

Step 5

Adjust the camera angle via the direction, zoom, focus and iris buttons which are located below the image. Turn the camera to the heat map scene which needs to be checked.

Step 6

Click “Save” to complete setting.

4.4.6.2 Report

It is to check the heat map statistics result of the scene within the selected period.

The config steps are shown as follows:

Step 1

Select “Setup > Event > Heat Map > Report” and the system will display the interface of “Report”.

Step 2

Select the start time and end time of heat map which needs to be searched.

Step 3

Select the number of heat map.

Step 4

It will display the search result on the interface after clicking “Search”, which is shown in Figure 4-91.

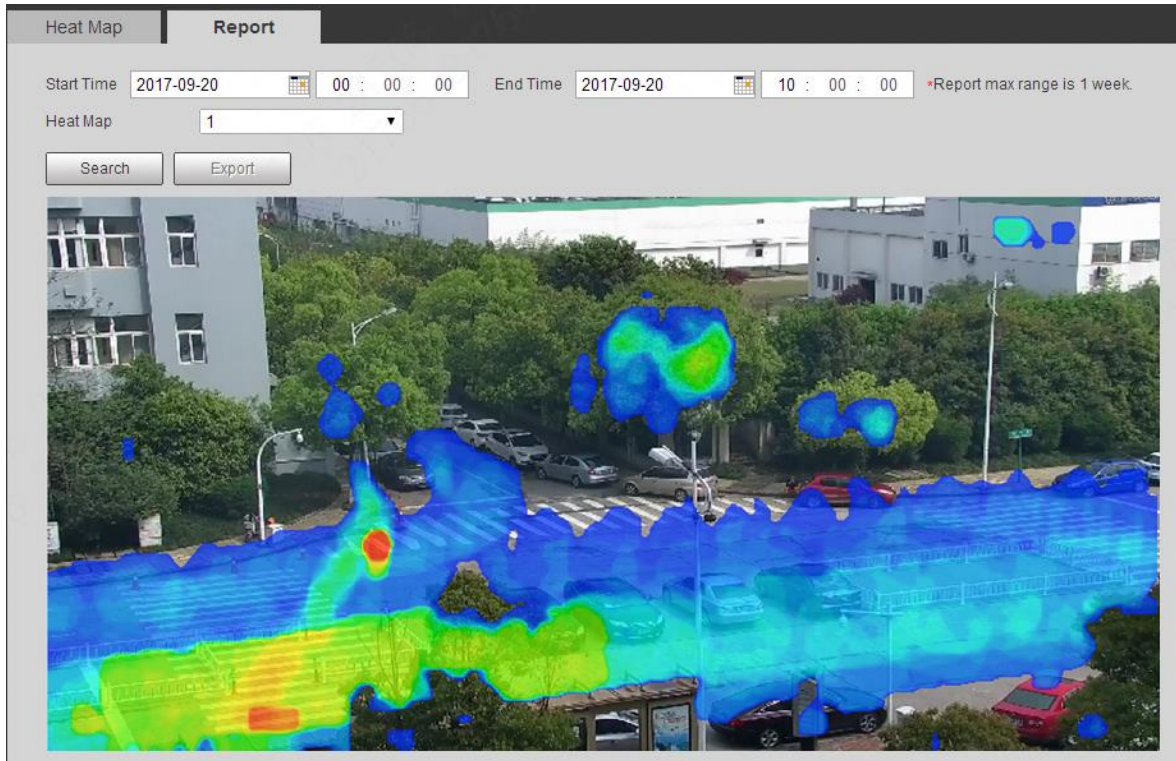


Figure 4-91

4.4.7 Alarm

Step 1

Select “Setup > Event > Alarm”.

The system will display the interface of “Alarm”, which is shown in Figure 4-92.

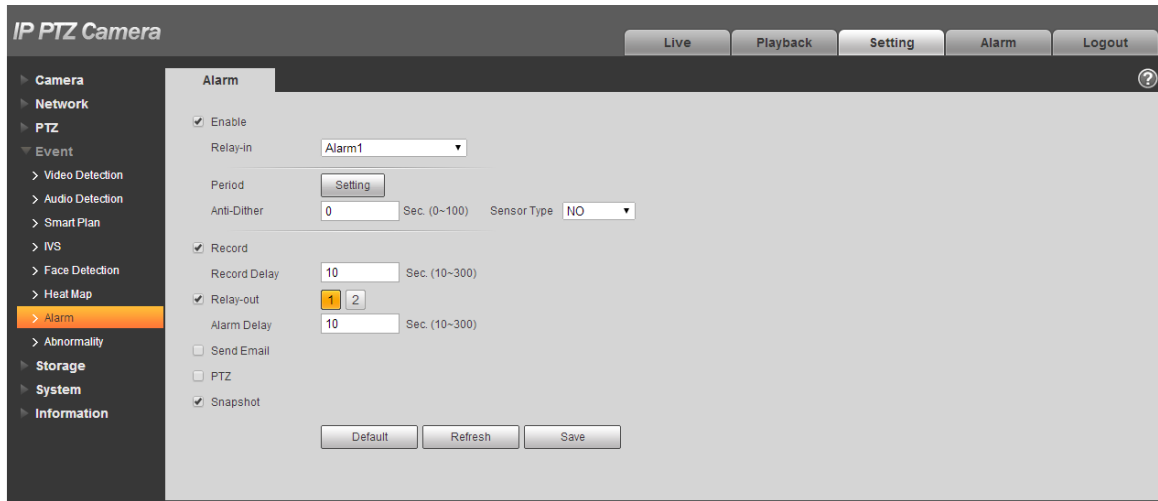


Figure 4-92

Step 2

Configure info of each parameter according to the actual needs; refer to Table 4-30 for more details.

Parameter	Function
Enable	After enabled, relay activation will work.
Relay-in	Select relay-in, it can select 7-channel relay in.
Sensor type	There are two options: NO/NC. Switch from NO to NC means enabling alarm; Switch from NC to NO means disabling alarm.

Table 4-30

Note

Please refer to “4.4.1.1 Motion Detection” for description of other parameters.

Step 3

Click “Save” to complete config.

4.4.8 Abnormity

Abnormality includes six alarm events which are no SD card, capacity warning, SD card error, disconnection, IP conflict and illegal access.

4.4.8.1 SD Card

Step 1

Select “Setup > Event > Abnormity > SD Card”.

The system will display the interface of “SD Card”, which is shown from Figure 4-93 to Figure 4-95.

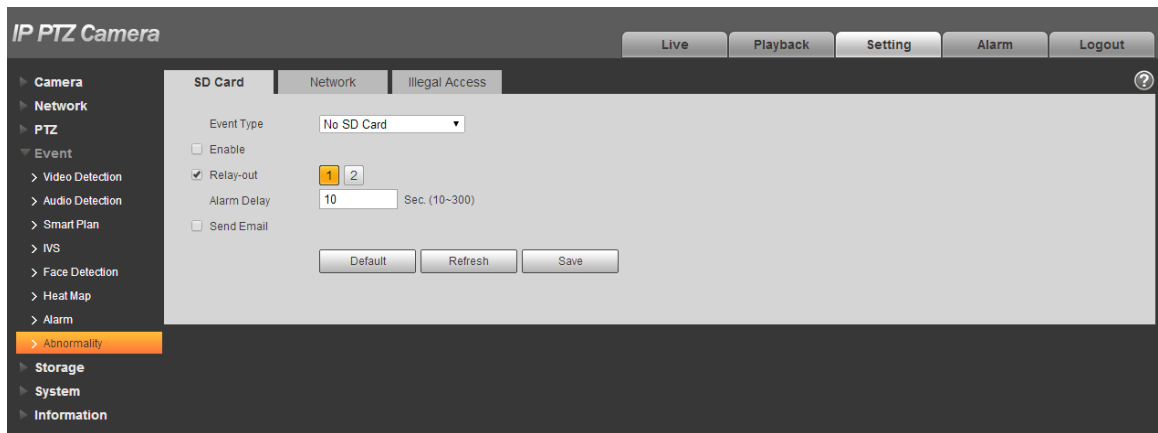


Figure 4-93

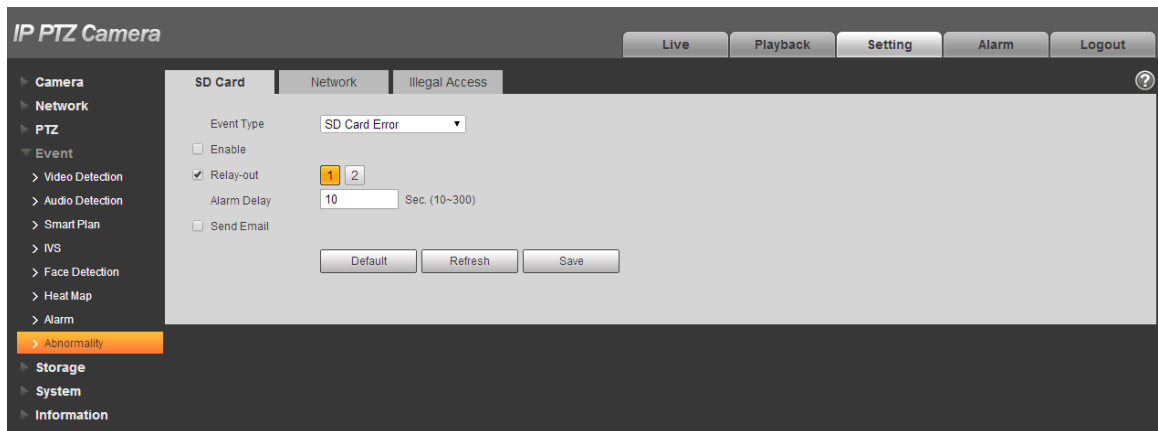


Figure 4-94



Figure 4-95

Step 2

Configure info of each parameter according to the actual needs; refer to Table 4-31 for more details.

Parameter	Function
Enable	Check to alarm when SD card is abnormal.
SD Card Capacity Lower Limit	User can set SD card capacity percentage which is left. When SD card space left is smaller than this, alarm occurs.

Table 4-31

Note

Please refer to “4.4.1.1 Motion Detection” for description of other parameters.

Step 3

Click “Save” to complete config.

4.4.8.2 Network

Step 1

Select “Setup > Event > Abnormity > Network”.

The system will display the interface of “Network”, which is shown in Figure 4-96 and Figure 4-97.

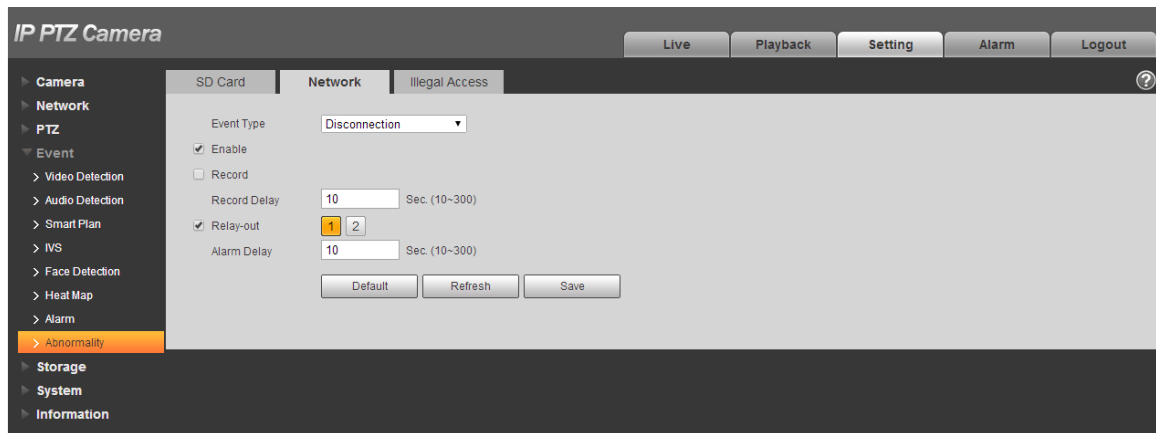


Figure 4-96

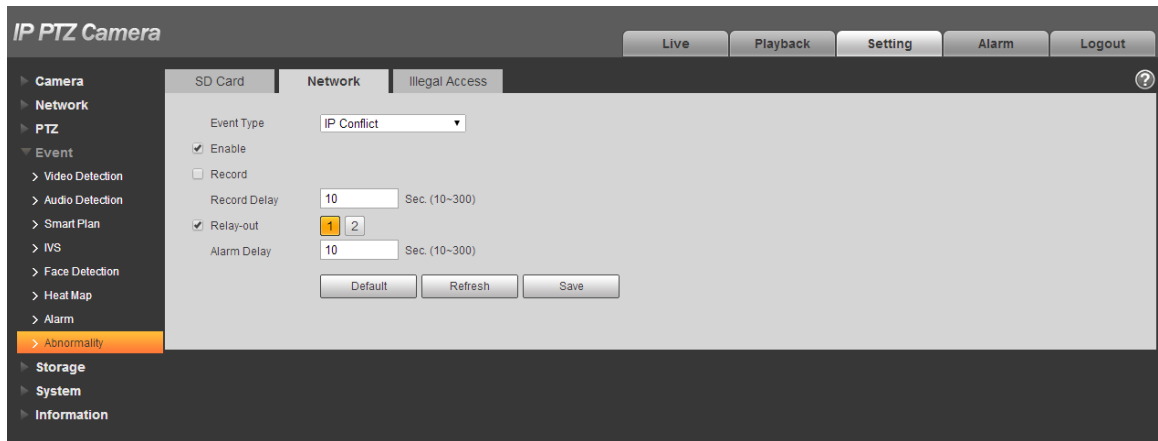


Figure 4-97

Step 2

Configure info of each parameter according to the actual needs; refer to Table 4-32 for more details.

Parameter	Note
Enable	Click it to enable network abnormality alarm.

Table 4-32

Note

Please refer to “4.4.1.1 Motion Detection” for description of other parameters.

Step 3

Click “Save” to complete config.

4.4.8.3 Illegal Access

When the login password error reaches a certain number of times, it will generate illegal access alarm.

Step 1

Select “Setup > Event > Abnormality > Illegal Access”.

The system will display the interface of “Illegal Access”, which is shown in Figure 4-98.



Figure 4-98

Step 2

Configure info of each parameter according to the actual needs; refer to Table 4-33 for more details.

Parameter	Note
Enable	Click it to enable illegal access alarm.
Login error	It will trigger alarm of illegal access after entering wrong password for some certain times, and the account will be locked.

Table 4-33

Note

Please refer to “4.4.1.1 Motion Detection” for description of other parameters.

Step 3

Click “Save” to complete config.

4.5 Storage Management

Here you can set schedule, storage mode and record control.

4.5.1 Schedule

Before schedule setup, user must set record mode in record control as auto status.

Note

If record mode in record control is off, then device will not record or snapshot according to the schedule.

4.5.1.1 Record

Step 1

Select “Setup > Storage > Schedule > Record Schedule”.

The system will display the interface of “Record Schedule”, which is shown in Figure 4-99.

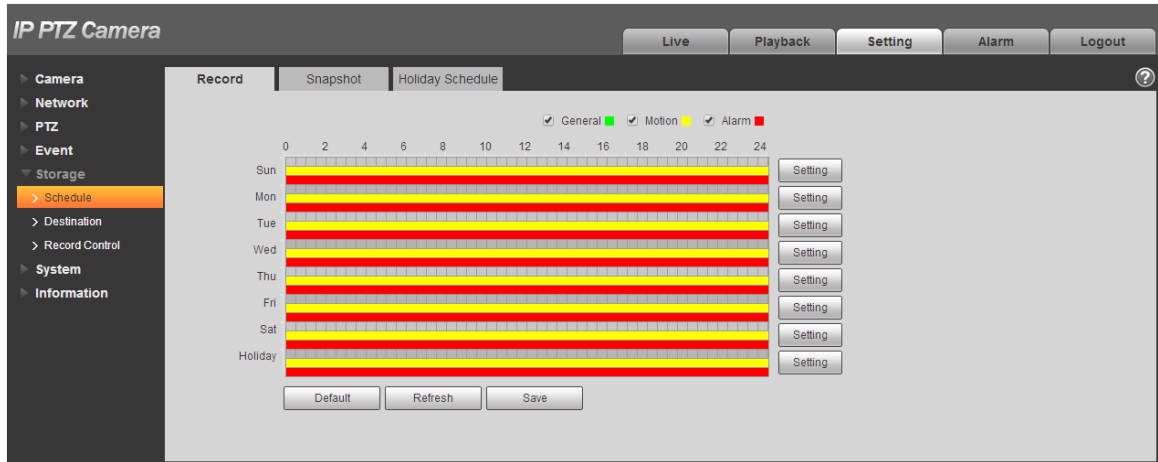


Figure 4-99

Step 2

From Monday to Sunday select record time, click “Setup” on the right. See Figure 4-100 for more details.

- Set period according to actual needs. There are six periods available each day.
- By checking or cancel, you can add or delete three types of record schedule: General, Motion, and Alarm.

Note

Period setup can be done by dragging in record schedule interface while not releasing left mouse.

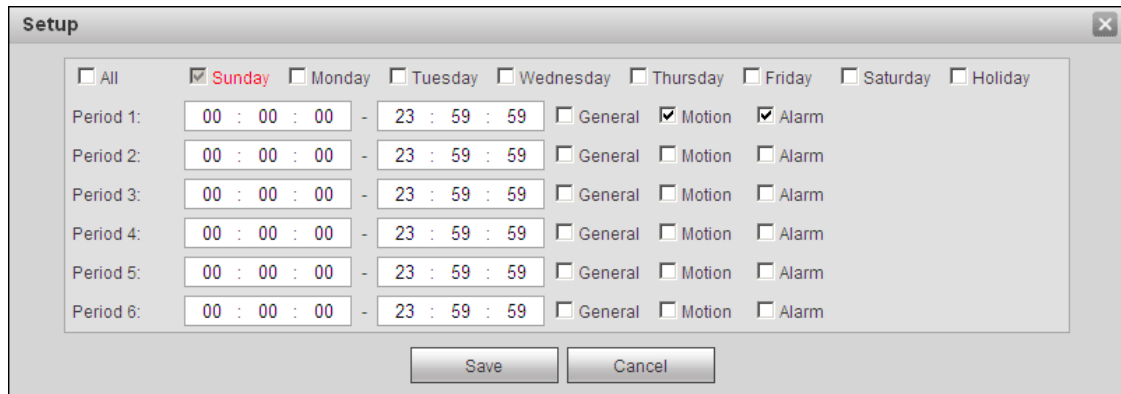


Figure 4-100

Step 3

Click “Save”, return to record schedule interface. See Figure 4-101.

- Green color stands for the general record.
- Yellow color stands for the motion detect record.
- Red color stands for the alarm record.

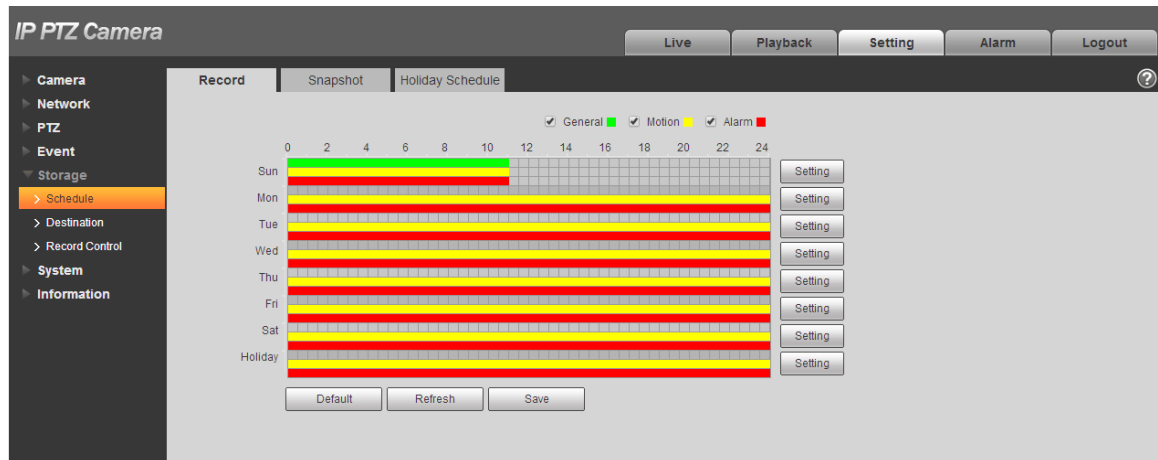


Figure 4-101

Step 4

Click “Save” on the “Record Schedule” interface, the system prompts “Successfully Saved”, and the record schedule is completed.

4.5.1.2 Snapshot

Step 1

Select “Setup > Storage > Schedule > Snapshot Schedule”.

The system will display the interface of “Snapshot Schedule”, which is shown in Figure 4-102.

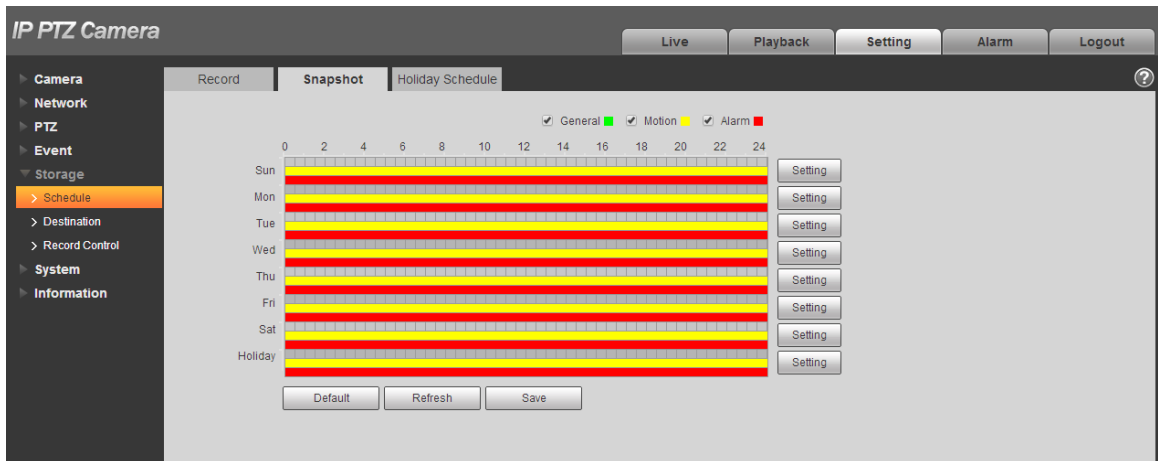


Figure 4-102

Step 2

Set the snapshot period according to step 2 and 3 of “4.5.1.1 Record”.

Step 3

Click “Save” and the system will prompt “Successfully Saved”, then snapshot schedule is completed.

4.5.1.3 Holiday Schedule

Holiday schedule can set specific date as holiday.

Step 1

Select “Setup > Storage > Schedule > Holiday Schedule”.

The system will display the interface of “Holiday Schedule”, which is shown in Figure 4-103.

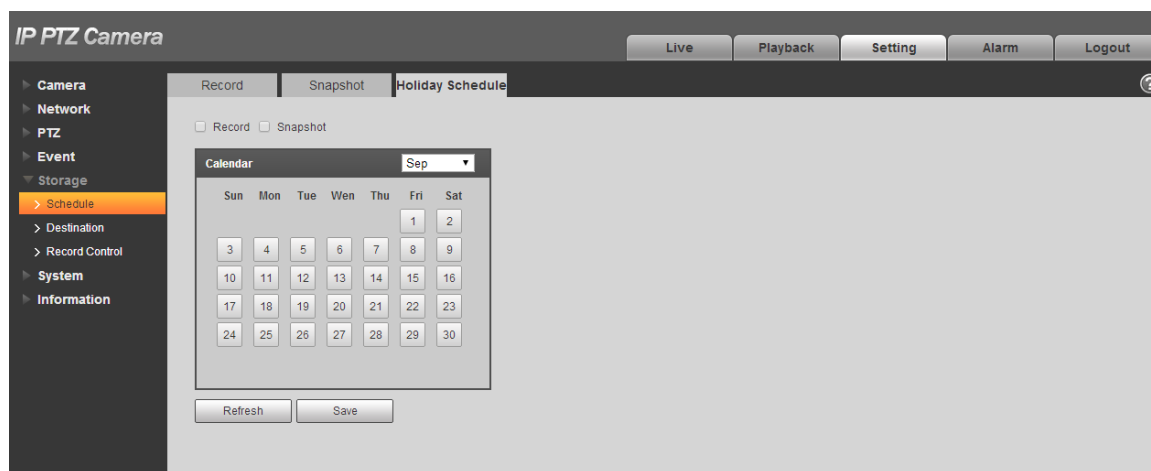


Figure 4-103

Step 2

Select date to set as holiday. The selected date will be highlighted in yellow.

Step 3

Check “Record/Snapshot”, click “Save”. System prompts it is successfully saved.

Step 4

Check “Record Schedule/Snapshot Schedule” interface, click setup next to “Holiday”, and refer to setup of “Monday to Sunday”.

Step 5

Complete setup of “Holiday”, then it records/snapshots according to date set in holiday schedule.

4.5.2 Destination

4.5.2.1 Path

Path can configure storage path of device record and snapshot. There are three options: Local, FTP and NAS. 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.

Note: Only some devices support NAS storage, please refer to the actual device.

Step 1

Select “Setup > Storage > Destination > Path”.

The system will display the interface of “Path”, which is shown in Figure 4-104.

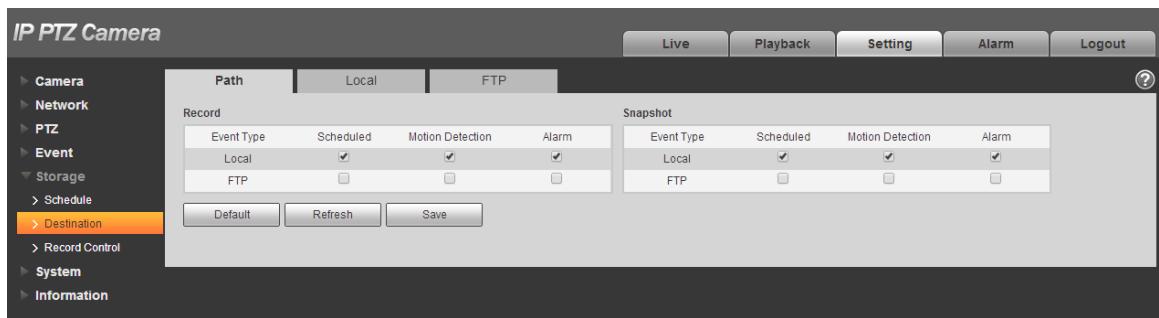


Figure 4-104

Step 2

Configure info of each parameter according to the actual needs; please refer to Table 4-34 for more details.

Parameter	Function
Event Type	It includes: scheduled, motion detect and alarm.
Local	It is saved in the SD card.
FTP	It is saved in the FTP server.
NAS	It is saved in NAS server.

Table 4-34

4.5.2.2 Local

Here it can display kinds of information of local SD card in the local storage list. You can also realize several operations such as read-only, read & write, hot swap and format.

Select “Setup > Storage > Destination > Local”, the system will display the interface of “Local” shown in Figure 4-105.



Figure 4-105

- Click “Read only” to set the SD card as read only.
- Click “Read & Write” to set the SD card as read & write.
- Click “Hot Swap” to realize hot swap upon the SD card.
- Click “Format” to realize formatting upon the SD card.

4.5.2.3 FTP

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 to the local SD card.

Step 1

Select “Setup > Storage > Destination > FTP”, the system will display the interface of “FTP” shown in Figure 4-106.

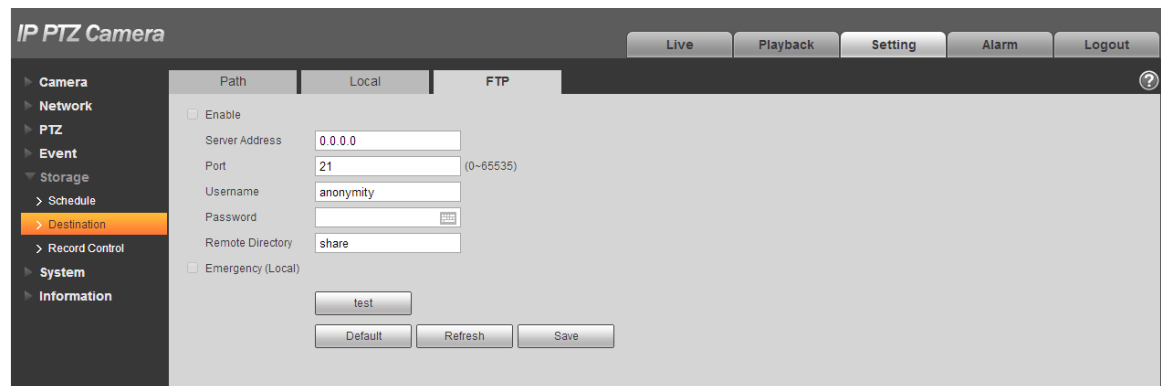


Figure 4-106

Step 2

Configure info of each parameter according to the actual needs; please refer to Table 4-35 for more details.

Parameter	Note
Enable FTP	Click it to enable FTP function
Server Address	FTP server address
Port	FTP server port
User name	User name used to log in FTP server.
Password	Password used to log in FTP server.
Remote Directory	Store it to the directory of FTP server.
Emergency (Local)	Click it and it will store to local SD card when FTP storage abnormality occurs.
Test	Click the button to test if FTP server can be connected.

Table 4-35

Step 3

Click “Save” to complete config.

4.5.2.4 NAS

When it selects NAS storage mode, NAS function can be enabled. You can store file to NAS server when selecting NAS storage.

Step 1

Select “Setup > Storage > Destination > NAS”, the system will display the interface of “NAS” shown in Figure 4-107.

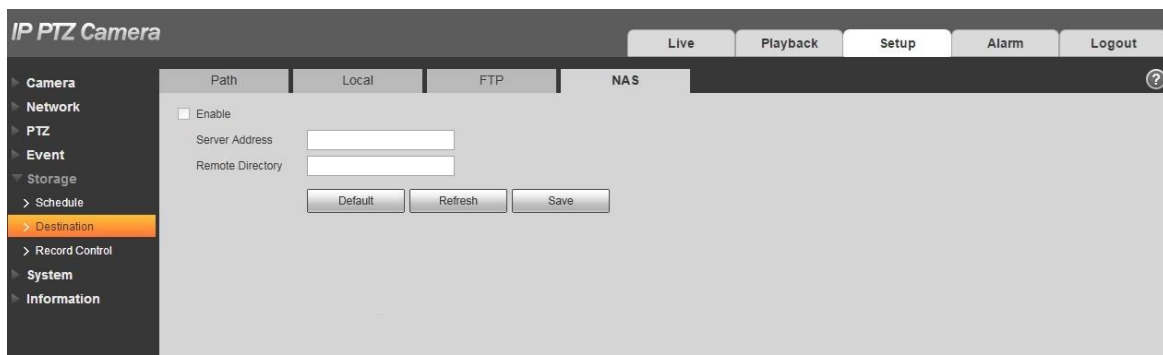


Figure 4-107

Step 2

Configure info of each parameter according to the actual needs; please refer to Table 4-36 for more details.

Parameter	Note
Enable NAS	Click it to enable NAS function.
Server Address	NAS server address.
Remote Directory	Store it to the directory of the NAS server.

Table 4-36

Step 3

Click “Save” to complete config.

4.5.3 Record control

Step 1

Select “Setup > Storage > Record Control”, the system will display the interface of “record Control” shown in Figure 4-108.



Figure 4-108

Step 2

Configure info of each parameter according to the actual needs; please refer to the following sheet for more details.

Parameter	Function
Pack Duration	It is to set the pack duration of each record file; it is 30 mins by default.
Pre-event Record	It is to set pre-event record time. For example, when it inputs 5, then the system will read the record video of first 5 seconds of the internal storage and record it into the file. Note Configure pre-event record time, when alarm record or motion detection record occurs, if there is no record, system will record the preceding n seconds video data into the record file.

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. It starts recording when selecting manual mode, it records within the range of schedule when selecting auto mode.
Record stream	There are two options: main stream and sub stream.

Table 4-37

Step 3

Click “Save” to complete config.

4.6 System

4.6.1 General

4.6.1.1 General

Step 1

Select “Setup > System > General”, the system will display the interface of “General” shown in Figure 4-109.



Figure 4-109

Step 2

Configure info of each parameter according to the actual needs; please refer to Table 4-38 for more details.

Parameter	Function
Device Name	It is to set device name. Note Different devices may have different names.
Language	You can select the language from the dropdown list.
Video Standard	It is to display the video format of device, such as 50Hz.
TV Output	It can select on or off, the device which only supports TV output can have this function. Note It will disable the intelligent functions when it is confirmed to enable TV output. It will disable TV output when it is confirmed to enable intelligent functions. Some models support SDI, HDCVI functions.
Install Mode	It is to set the installation mode of the device, you can select upright or inverted.

Table 4-38

Step 3

Click “Save” to complete config.

4.6.1.2 Date & Time

Step 1

Select “Setup > System > General > Date & Time”, the system will display the interface of “Date & Time” shown in Figure 4-110.

Figure 4-110

Step 2

Configure info of each parameter according to the actual needs; please refer to Table 4-39 for more details.

Parameter	Function
Date format	Here you can select date format from the dropdown list.
Time Format	Here you can select the corresponding time format which needs to be displayed.
Time zone	The time zone of the device.
System time	It is to set system time. It becomes valid after you set.
DST	Here you can set begin time and end time of DST. You can set according to the date format or according to the week format.
NTP	You can check the box to enable network time sync function
NTP server	You can set the address of time serve.
Port	It is to set the port of time server.
Update period	It is to set the sync interval between the device and the time server.

Table 4-39

Step 3

Click “Save” to complete config.

4.6.2 Account

4.6.2.1 Account

Only when users have the right of account management then can it realize account management operation.

- For the character in the following user name or the user group name, system max supports 15-digits. The valid string includes: character, number, and underline.
- Password can be 0~32 characters in number and letter only. User can modify other user's password.
- The user amount is 18 and the group amount is 8 when the device is shipped out of the factory.
- 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.
- Currently logged in user cannot change his/her own right.
- There is one default user admin during initialization. Admin belongs to high right user by default when it is out of factory.

4.6.2.1.1 User Name

You can enable anonymity login, add/remove user and modify user name and etc. in “Setup > System > Account > Account > User name. See Figure 4-111.

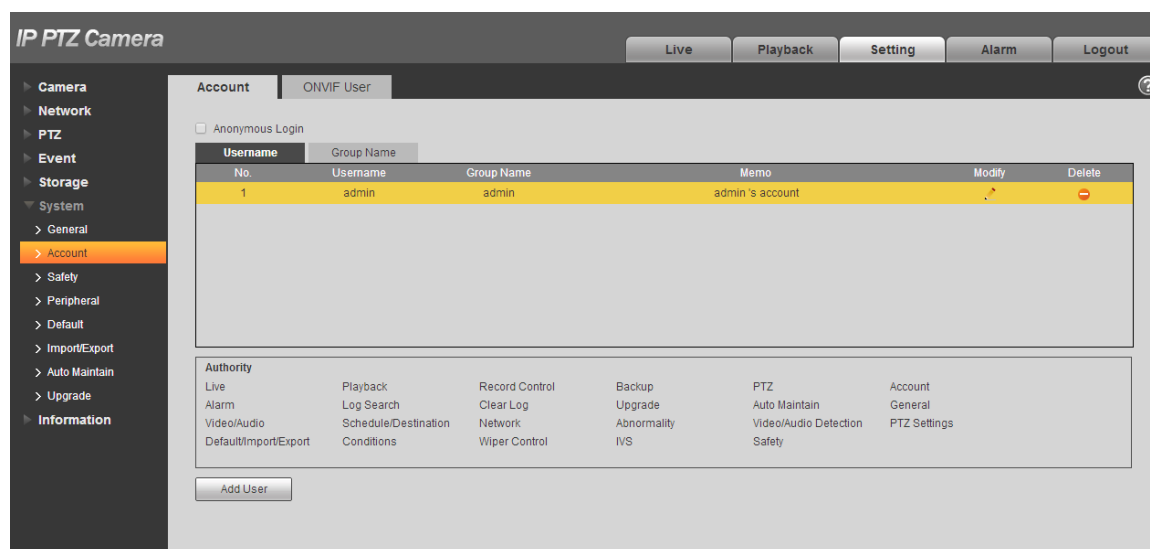


Figure 4-111

Note

The version info and other icons in the live interface except alarm have no right control temporarily.

Anonymous login: Enable “Anonymity Login”, and input IP. No username or password is required, you can log in by anonymity (with limited rights). You can click logout to use other users to log in the device.

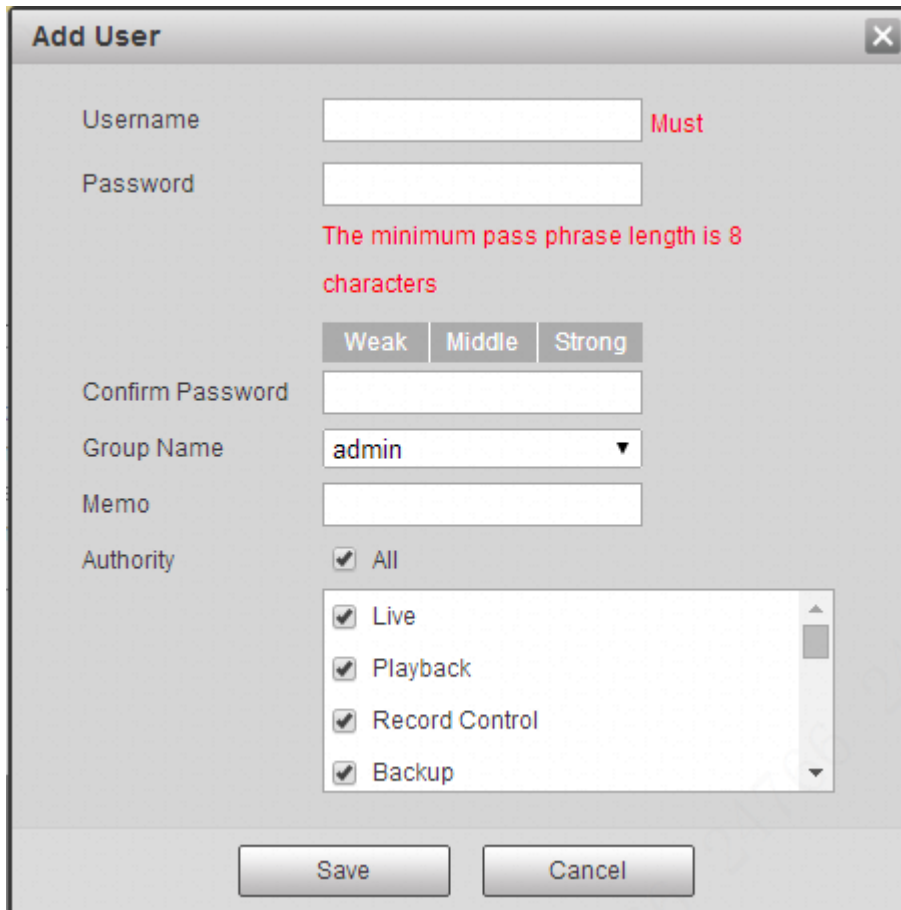
Add user

It is to add user in group and set the right control of the user.

The highest right user admin can't be deleted by default.

Step 1

Click “Add User” and the system will pop out the interface of “Add User”, which is shown in Figure 4-112.



The screenshot shows a "Add User" dialog box with the following elements:

- Title Bar:** "Add User" with a close button (X).
- Username:** A text input field with a red "Must" label to its right.
- Password:** A text input field.
- Confirmation:** A red message "The minimum pass phrase length is 8 characters" and three buttons: "Weak", "Middle", and "Strong".
- Confirm Password:** A text input field.
- Group Name:** A dropdown menu currently showing "admin".
- Memo:** A text input field.
- Authority:** A section with a checked "All" radio button and a list box containing "Live", "Playback", "Record Control", and "Backup", each with a checked checkbox.
- Buttons:** "Save" and "Cancel" buttons at the bottom.

Figure 4-112

Step 2

Enter user name and password, select group and check authority list.

Note

- Once the group is selected, then the user right can only be subset of the group which can't surpass the right of the group.
- Users are recommended to make it lower than senior users when defining general users in order to make user management convenient.

Step 3

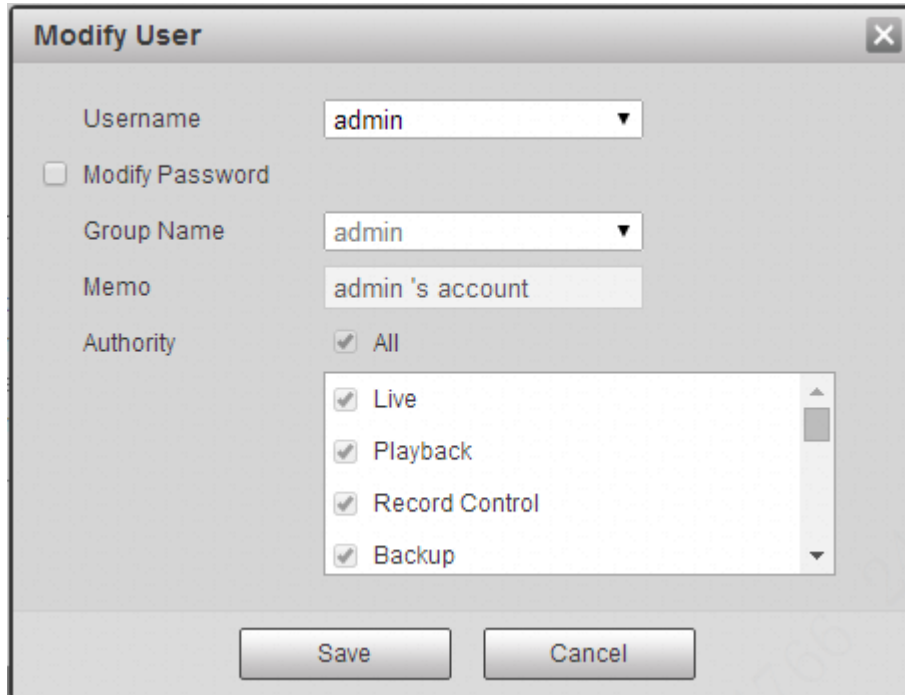
Click “Save”.

Modify user

Step 1

Click the  icon which is corresponding to the users which needs to be modified.

The system will pop out the interface of “Modify User” which is shown in Figure 4-113.



The image shows a "Modify User" dialog box with a title bar and a close button. It contains the following fields and controls:

- Username:** A dropdown menu with "admin" selected.
- Modify Password:** An unchecked checkbox.
- Group Name:** A dropdown menu with "admin" selected.
- Memo:** A text input field containing "admin 's account".
- Authority:** A section with a checked "All" checkbox and a list of permissions: "Live", "Playback", "Record Control", and "Backup", each with a checked checkbox.
- Buttons:** "Save" and "Cancel" buttons at the bottom.

Figure 4-113

Step 2

Modify the user information according to actual needs.

Step 3

Click “Save”.

Modify password

Step 1

Select the check box of “Modify Password”.

Step 2

Input old password, input new password and confirm it.

Step 3

Click “Save”.

Delete User

Click the  icon of corresponding user which needs to be deleted, and then you can delete the user.

4.6.2.1.2 Group

You can realize add group, delete group, modify password and other operations in “Setup > System > Account > Group”. You can refer to Figure 4-114 for more details.

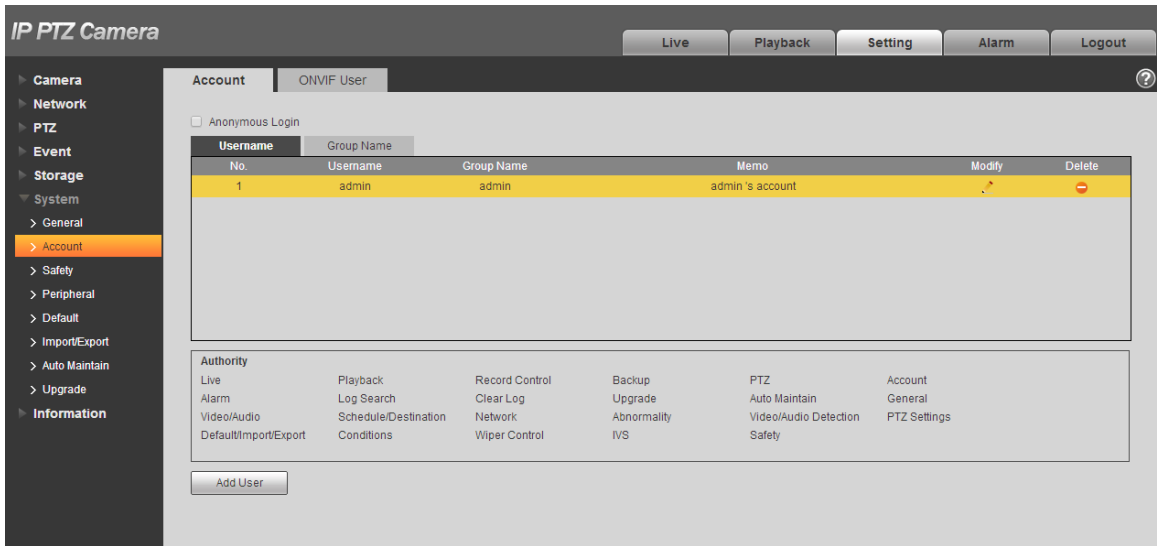


Figure 4-114

Add Group:

Please refer to “4.6.2.1.1 Username” for more details.

Modify Group

Please refer to “4.6.2.1.1 Username” for more details.

Delete Group

Please refer to “4.6.2.1.1 Username” for more details.

4.6.2.2 ONVIF User

Users can add Onvif user on the WEB interface, it can also modify the users which have existed.

Step 1

Select “Setup > System > Account > ONVIF User” and the system will display the interface of “ONVIF User”, which is shown in Figure 4-115.

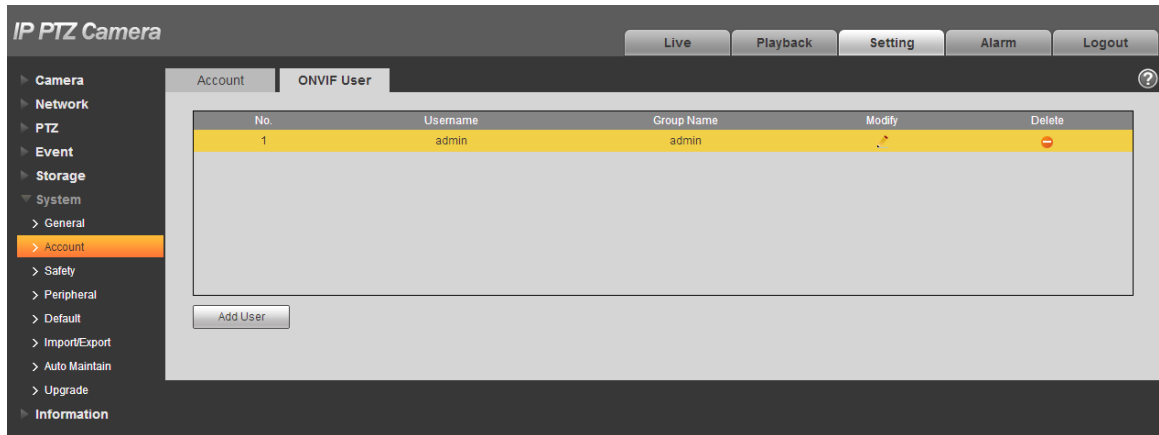


Figure 4-115

Step 2

Click “Add User” and the system will pop out the interface of “Add User”, which is shown in Figure 4-116 .

Figure 4-116

Step 3

Set username, password and select group.

Step 4

Click “Save”.

Click  to modify the user's information.

4.6.3 Safety

4.6.3.1 RSTP Authentication

It can set the authorize mode of media stream.

Step 1

Select “Setup > System > Safety > RSTP Authentication” and the system will display the interface of “RSTP Authentication”, which is shown in Figure 4-117.

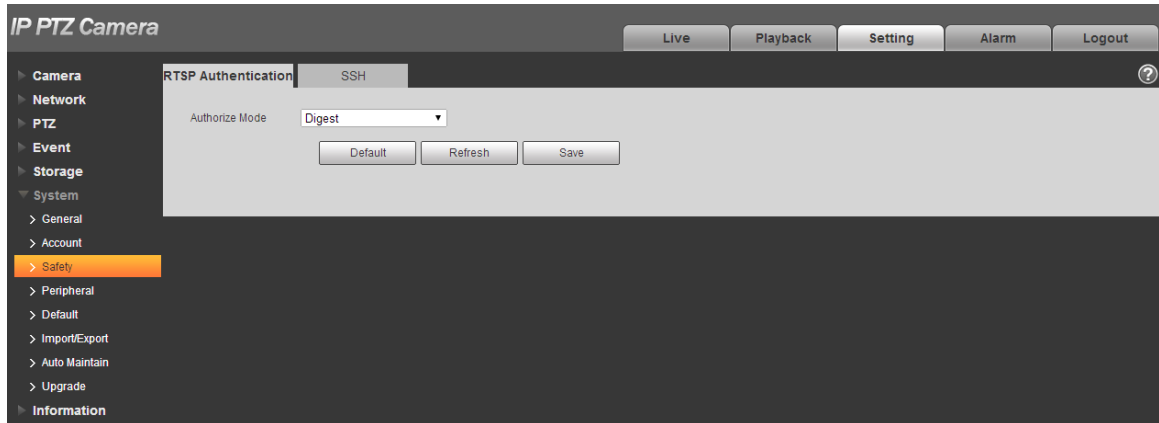


Figure 4-117

Step 2

Select authorize mode. It can select Digest, Basic or None. It is Digest by default.

Note

Click “Default” and the authorize mode will be selected as “Digest” automatically.

4.6.3.2 SSH

It can select to enable SSH service to acquire higher safety.

Step 1

Select “Setup > System > Safety > SSH” and the system will pop out the interface of “SSH”, which is shown in Figure 4-118.

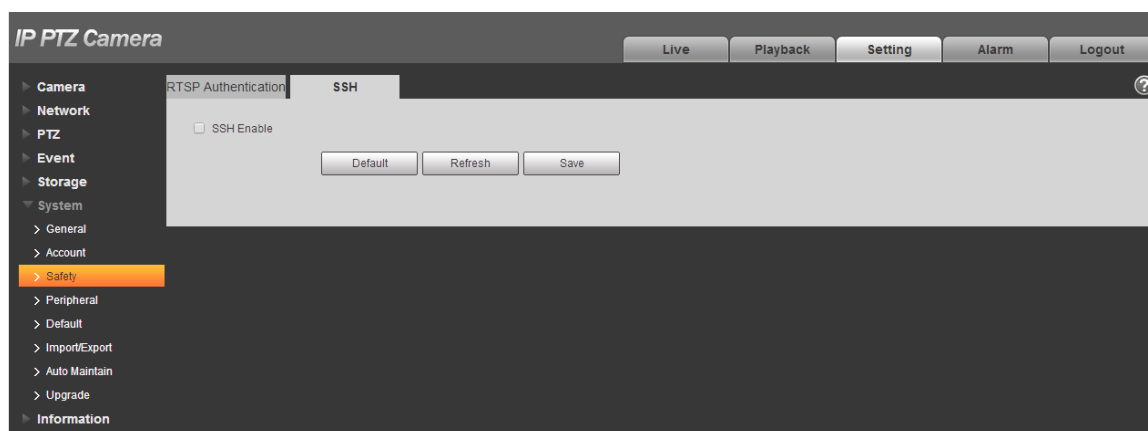


Figure 4-118

Step 2

Select “SSH Enable” to enable SSH service.

Note

Click “Default” to cancel SSH service.

4.6.4 Peripheral

Note

Only some models support peripheral management, please refer to the actual device for more details.

4.6.4.1 Wiper

You can make settings for wiper.

Step 1

Select “Setup > System > Peripheral > Wiper”.

The system will display the interface of “Wiper” which is shown in Figure 4-119 and Figure 4-121.



Figure 4-119

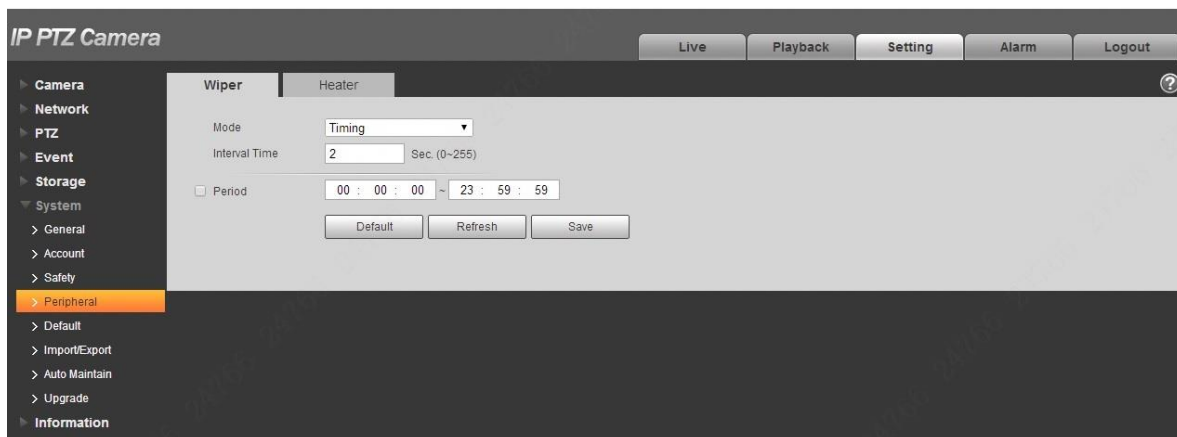


Figure 4-120

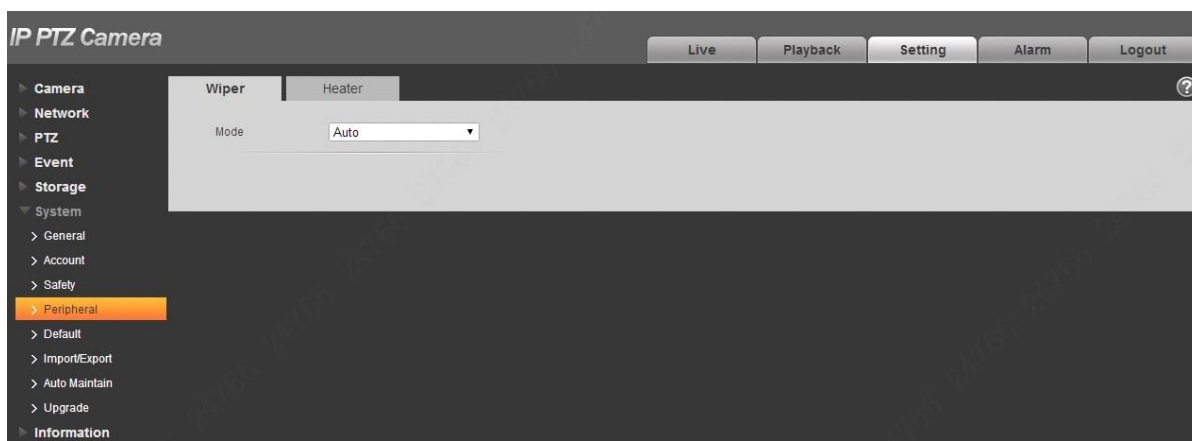


Figure 4-121

Step 2

Configure info of each parameter according to the actual needs. Refer to Table 4-40 for more details.

Parameter	Note
Mode	It is to set wiper mode, you can select timing and manual, it is timing by default. ● In timing mode, it needs to set the period of enabling wiper. ● In manual mode, it needs to enable wiper by manual operation. ● In auto mode, it is to enable wiper automatically.
Interval Time	It is the interval from when the wiper stops to when the wiper is enabled.
Period	Click it to set the period when the wiper is enabled in timing mode.
Start, Stop, Once	In manual mode: ● Click “Start”, and the wiper operates regularly according to the interval

	which has been set. - Click “Stop”, and the wiper stops. - Click “Once” and the wiper operates once.
--	--

Table 4-40

Step 3

Click “Save” to complete config.

4.6.4.2 Heater

Go to “Setup > System > Peripheral >Heater” and the config interface is shown in Figure 4-122.

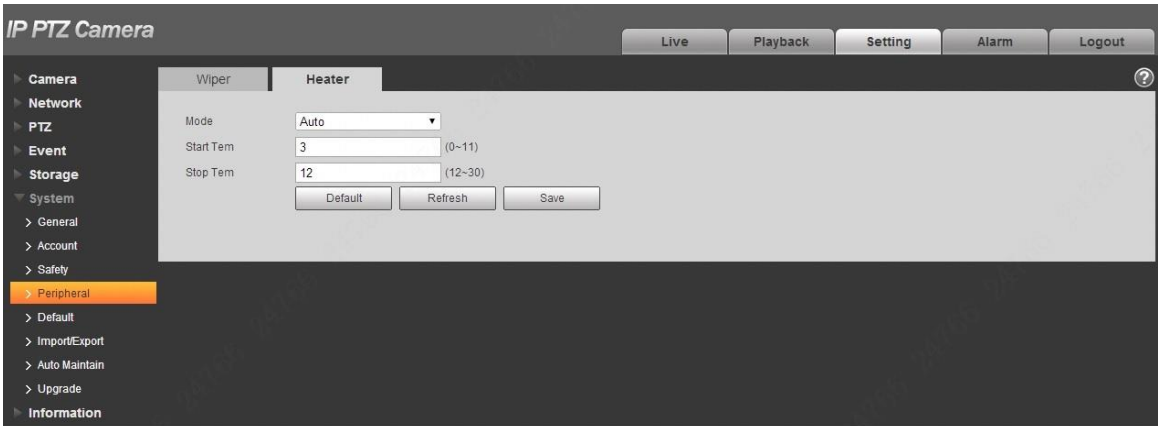


Figure 4-122

4.6.5 Default

Note

Go to “Setup > System > Default” and click “Default” to restore some device settings back to default. The config interface is shown in Figure 4-123.

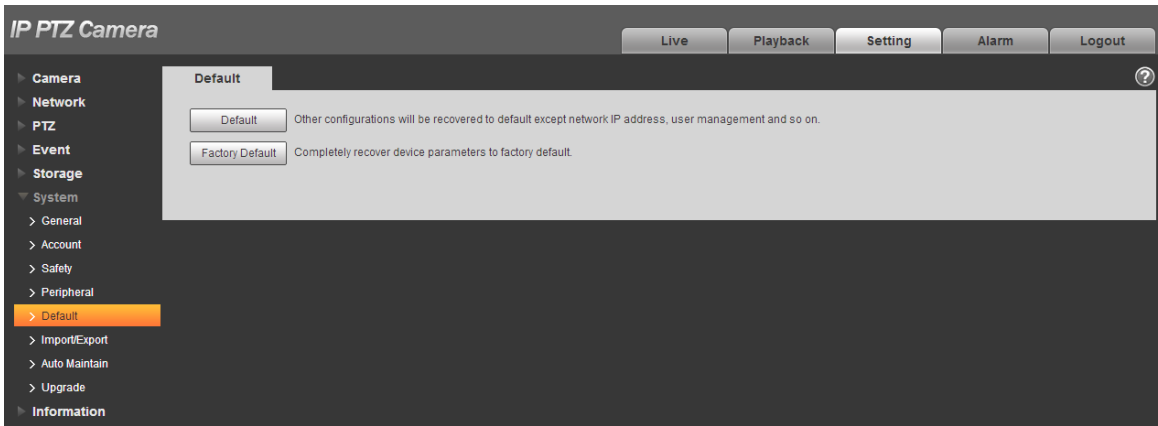


Figure 4-123

You can select default mode according to the actual needs.

- Default: Config (except network IP address, user management info and so on) default.
- Factory default: The function is equivalent to the reset button of the speed dome. It can help to restore all the config info to factory default, the device IP address will be restored to default IP address as well. After clicking “Factory Default”, it needs to input the password of admin user on the interface. It can restore the device after the system judges that the password is correct.

4.6.6 Import/Export

It can realize quick config of several devices via configuring file import and export when the config method of several devices is the same.

Step 1

Select “Setup > System > Import Export” on the WEB end of some device.

The system will display the interface of “Import & Export”, which is shown in Figure 4-124.

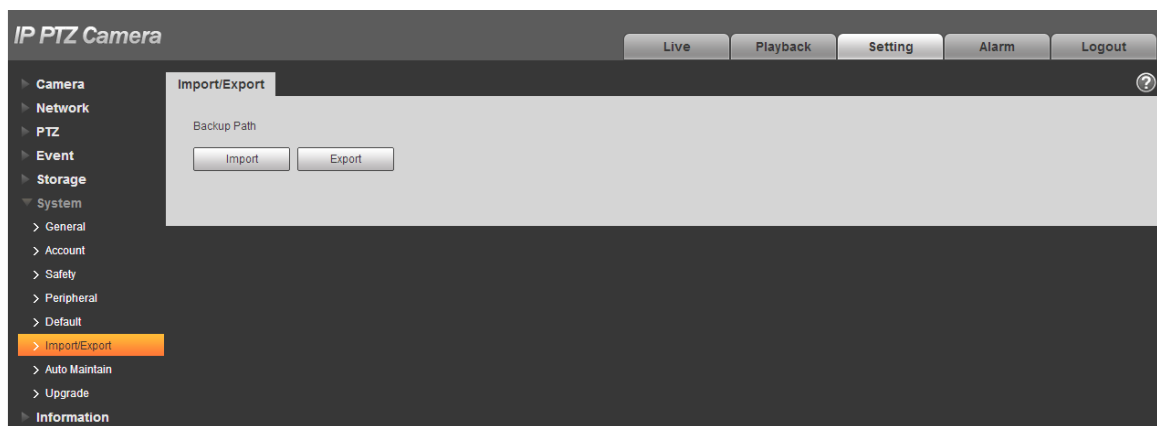


Figure 4-124

Step 2

Click “Export” to export the config file (.backup file) to local.

Step 3

Click “Import” on the “Import & Export” interface of the WEB end of the device to be configured, and import the file into the system. So far the device config is completed.

4.6.7 Auto Maintenance

Users can set auto reboot system or auto delete file, it needs to set period and time for auto reboot system, it is 02:00 every Tuesday by default. It needs to set the period of the file if it needs to auto delete old files, and delete the file within the specific period.

Step 1

Select “Setup > System > Auto Maintenance”.

The system will display the interface of “Auto Maintenance” in Figure 4-125.

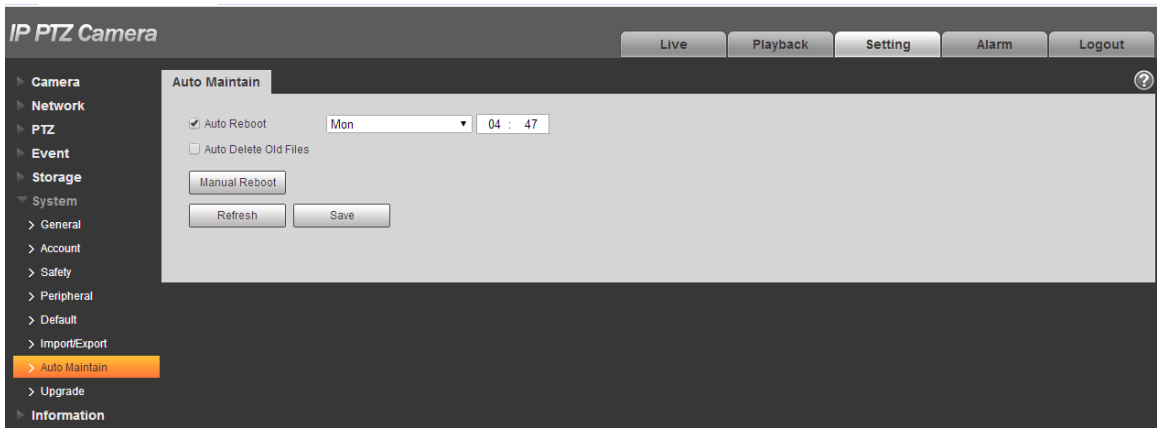


Figure 4-125

Step 2

Configure the info of each parameter according to the actual needs; please refer to Table 4-41 for more details.

Parameter	Function
Auto Reboot	Check it and set auto reboot time.
Auto Delete Old Files	Check it and you can customize period, the range of period is from 1 to 31 days.

Table 4-41

Step 3

Click “Save” to make config valid.

4.6.8 Upgrade

You can realize upgrade operation in “Setup > System > Upgrade”. See Figure 4-126 for more details.

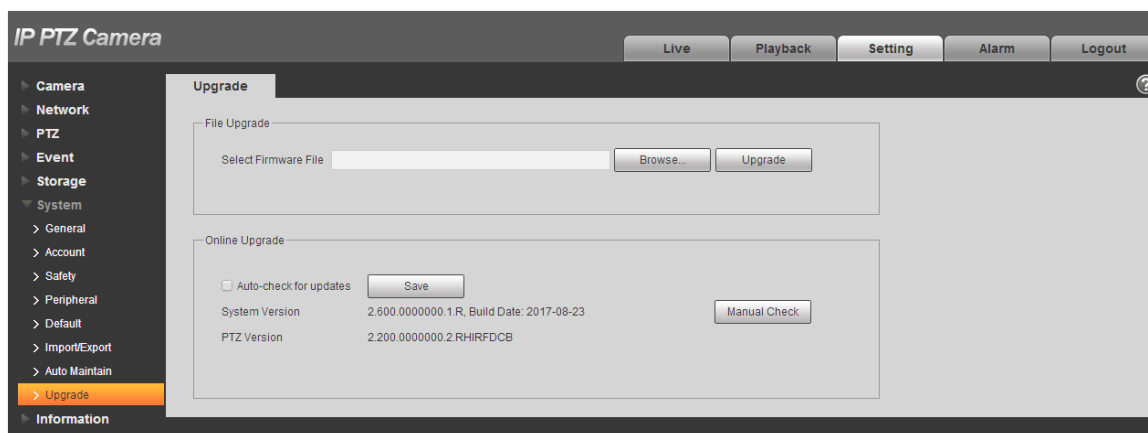


Figure 4-126

Click “Browse” and select upgrade file, click “Upgrade” to realize firmware upgrade. The upgrade file is “*.bin” file.

Note

It needs to reboot the device when upgrading wrong files; otherwise some module functions of the device will be disabled.

4.7 Information

The system supports checking system version, online users, log and etc.

4.7.1 Version

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

Check the version info of the current WEB end in “Setup > System > Version”. See Figure 4-127 for more details.

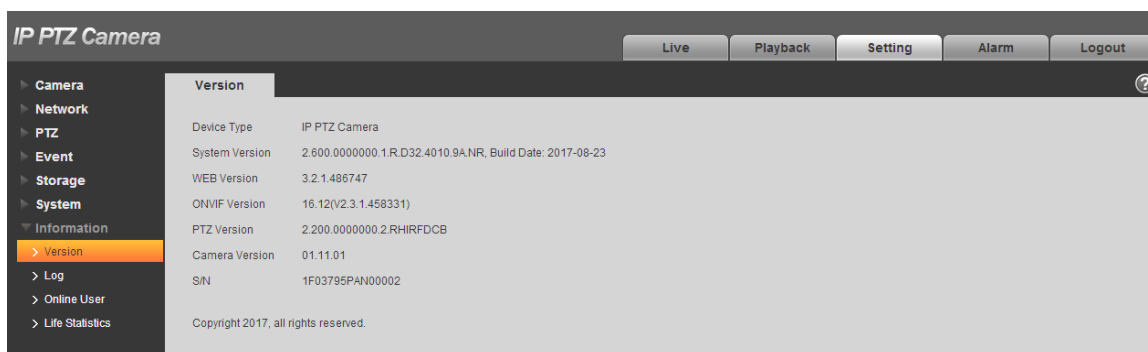


Figure 4-127

4.7.2 Log

In “Setup > System > Log”, you can check the device operation info implemented by users and some system info, see Figure 4-128 for more details.

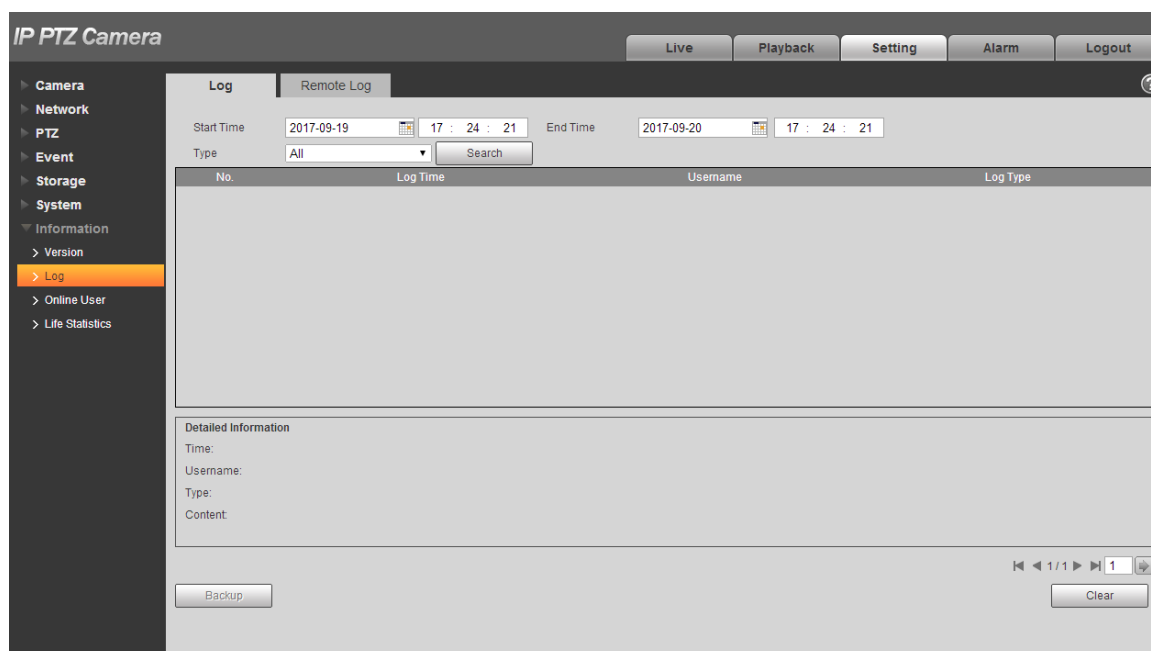


Figure 4-128

Please refer to Table 4-42 for log parameter information.

Parameter	Function
Start time	Set the start time of the requested log. (The earliest time is 2000/1/1)
End time	Set the end time of the requested log. (The latest time is 2037/12/31)
Type	Log type consists of system operation, config operation, data management, alarm event, record operation, user management and log clear.
Search	First it needs to set start time and end time of the log to be searched, and select log type, click “Search”, it will display search bars dynamically; click “Stop” to pause log search, and it will display the searched bars and period area.
Log information	Click log record and it will display the detailed info of the log.
Clear	It is to clear all the log info on the device, but it fails to support classified clearance of log info.
Backup	You can click this button to backup system log files which is searched to current PC.

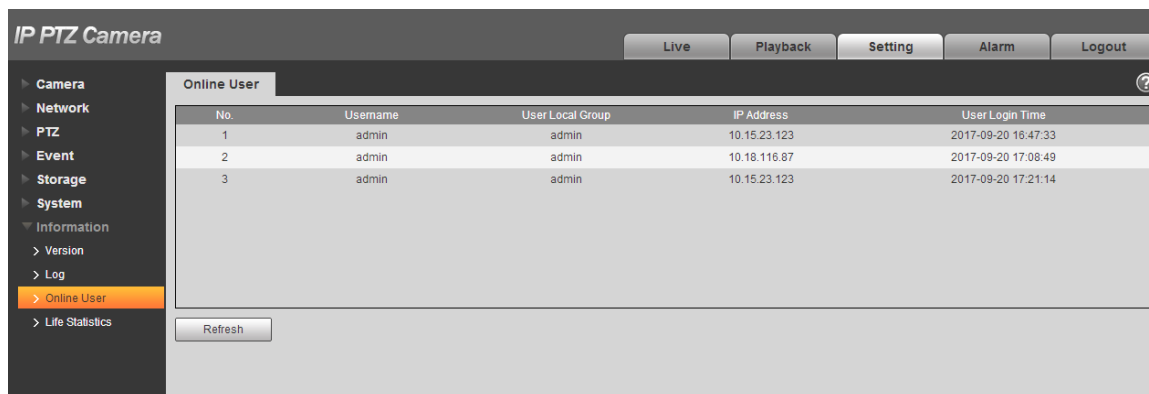
Table 4-42

Specific meaning included by different log types:

- System operation: It includes application program enable, abnormal logout, logout, application program reboot, close/reboot device, system reboot, and system upgrade.
- Config operation: It includes save config, delete config file.
- Data operation; It includes setting hardware type, clearing data, hot swap, FTP status, record mode.
- Event operation (it is to record the events such as video detection, IVS, alarm, abnormality and etc.): It includes event start and event end.
- Record operation: It includes file access, file access error, and file inquiry.
- User management (it is to record the user management modification and user login and logout): It includes login, logout, add user, delete user, modify user, add group, delete group, modify group.
- Clear log: It is to clear log.

4.7.3 Online User

You can check the user info on the current WEB in “Setup > System > Online User”, see Figure 4-129 for more details.



No.	Username	User Local Group	IP Address	User Login Time
1	admin	admin	10.15.23.123	2017-09-20 16:47:33
2	admin	admin	10.18.116.87	2017-09-20 17:08:49
3	admin	admin	10.15.23.123	2017-09-20 17:21:14

Figure 4-129

4.7.4 Life Statistics

Go to “Setup > Information > Life Statistics” and check running status of the device. The interface is shown in Figure 4-130.

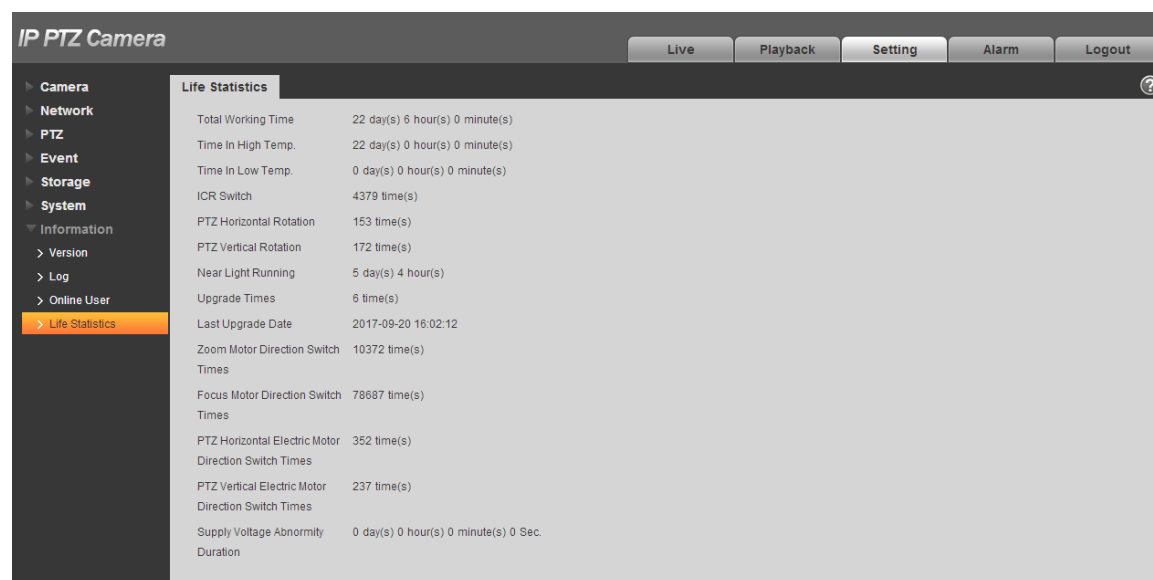


Figure 4-130

5 Alarm

The alarm module mainly provides users with alarm events to subscribe; it will record the alarm info in the right column when it triggers the alarm event which has been subscribed by users.

Step 1

Click “Alarm” and the system will display the interface of “Alarm”, which is shown in Figure 5-1.

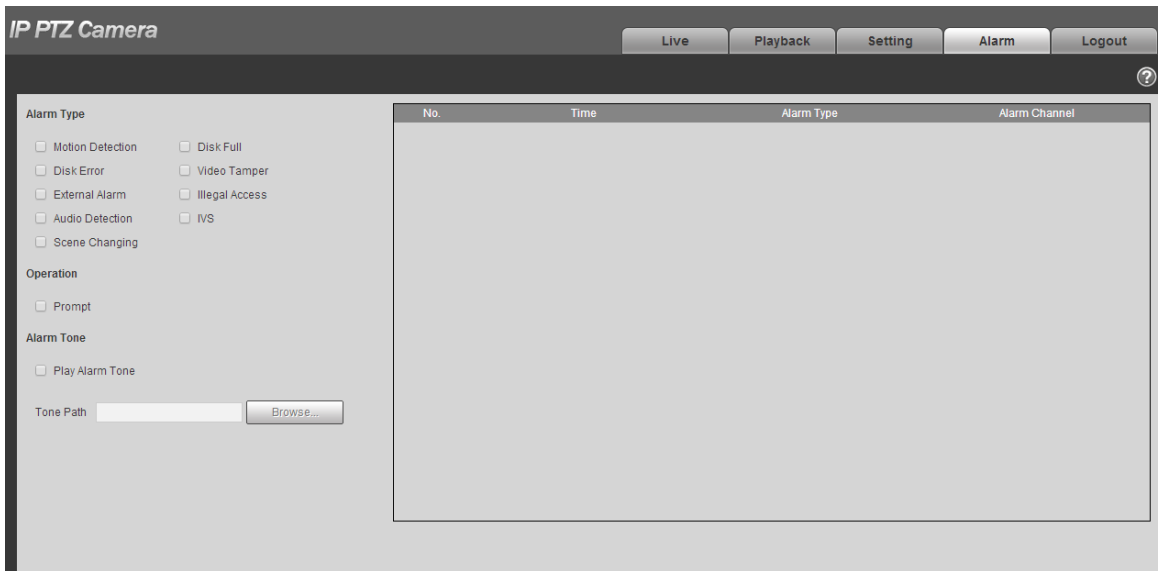


Figure 5-1

Step 2

Configure info of each parameter according to the actual needs; please refer to Table 5-1 for more details.

Type	Parameter	Function
Alarm type	Motion detection	System records alarm when motion detection alarm occurs,
	Disk full	System records alarm when disk is full.
	Disk error	System records an alarm when HDD malfunctions.
	Video tamper	System records alarm when camera is viciously masked.
	External alarm	System records alarm when alarm inputs the device.
	Illegal access	System records alarm when there is unauthorized access.
	Audio detection	System records alarm when audio detection occurs.
	IVS	System records alarm when intelligent config occurs

Type	Parameter	Function
	Scene changing	System records alarm when scene changing is triggered.
Operation	Prompt	When alarm is triggered, there will be an  in main menu of alarm interface and system automatically records alarm info. The icon disappears when user click alarm menu bar. Note: If alarm interface is displayed, when alarm is triggered, there will be no image prompt, but alarm record will be in list on the right.
Alarm Tone	Play Alarm Tone	When alarm occurs, system auto generates alarm audio. The audio supports customized setup.
	Tone Path	Here you can specify alarm sound file.

Table 5-1

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 mentioned 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.

FCC Statement

1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

2. The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

3. (b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

4. RF exposure warning

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.