



Figure 4-102

### 4.11.3 Event

#### 4.11.3.1 Detect

In the main menu, from Setting->Event->Detect, you can see motion detect interface. See Figure 4-103. There are four detection types: motion detection, video loss, tampering, and analysis.

- The video loss has no detection region and sensitivity setup and tampering has no detection region setup.
- You can see motion detect icon if current channel has enabled motion detect alarm.
- You can drag your mouse to set motion detect region. Please click OK button to save current region setup. Right click mouse to exit current interface.

##### 4.11.3.1.1 Motion Detect

After analysis video, system can generate a video loss alarm when the detected moving signal reached the sensitivity you set here.

Detection menu is shown as below. See Figure 4-103.

- Event type: From the dropdown list you can select motion detection type.
- Channel: Select a channel from the dropdown list to set motion detect function.
- Enable: Check the box here to enable motion detect function.
- Region: Click select button, the interface is shown as in Figure 4-104. Here you can set motion detection zone. There are four zones for you to set. Please select a zone first and then left drag the mouse to select a zone. The corresponding color zone displays different detection zone. You can click Fn button to switch between the arm

mode and disarm mode. In arm mode, you can click the direction buttons to move the green rectangle to set the motion detection zone. After you completed the setup, please click ENTER button to exit current setup. Do remember click save button to save current setup. If you click ESC button to exit the region setup interface system will not save your zone setup.

- Sensitivity: System supports 6 levels. The sixth level has the highest sensitivity.
  - Anti-dither: Here you can set anti-dither time. The value ranges from 5 to 600s. The anti-dither time refers to the alarm signal lasts time. It can be seem as the alarm signal activation stays such as the buzzer, tour, PTZ activation, snapshot, channel record. The stay time here does not include the latch time. During the alarm process, the alarm signal can begin an anti-dither time if system detects the local alarm again. The screen prompt, alarm upload, email and etc will not be activated. For example, if you set the anti-dither time as 10 second, you can see the each activation may last 10s if the local alarm is activated. During the process, if system detects another local alarm signal at the fifth second, the buzzer, tour, PTZ activation, snapshot, record channel will begin another 10s while the screen prompt, alarm upload, email will not be activated again. After 10s, if system detects another alarm signal, it can generate an alarm since the anti-dither time is out.
  - Period: Click set button, you can see an interface is shown as in Figure 4-106. Here you can set motion detect period. System only enables motion detect operation in the specified periods. It is not for video loss or the tampering. There are two ways for you to set periods. Please note system only supports 6 periods in one day.
- ✧ In Figure 4-106, Select icon  of several dates, all checked items can be edited together. Now the icon is shown as . Click  to delete a record type from one period.
- ✧ In Figure 4-106. Click button  after one date or a holiday, you can see an interface shown as in Figure 4-107. There are four record types: regular, motion detection (MD), Alarm, MD & alarm.
- Alarm output: when an alarm occurs, system enables peripheral alarm devices.
  - Latch: when motion detection complete, system auto delays detecting for a specified time. The value ranges from 1-300(Unit: second)
  - Show message: System can pop up a message to alarm you in the local host screen if you enabled this function.
  - Alarm upload: System can upload the alarm signal to the network (including alarm centre) if you enabled current function.
  - Send email: System can send out email to alert you when an alarm occurs.
  - Record channel: System auto activates motion detection channel(s) to record once an alarm occurs. Please make sure you have set MD record in Schedule interface(Main Menu->Setting->Schedule) and schedule record in manual record interface(Main Menu->Advanced->Manual Record)

- PTZ activation: Here you can set PTZ movement when an alarm occurs. Such as go to preset, tour & pattern when there is an alarm. Click “select” button, you can see an interface is shown as in Figure 4-105.
- Record Delay: System can delay the record for specified time after alarm ended. The value ranges from 10s to 300s.
- Tour: Here you can enable tour function when an alarm occurs. System one-window tour.
- Snapshot: You can enable this function to snapshot image when a motion detect alarm occurs.
- Video matrix Check the box here to enable this function. When an alarm occurs, SPOT OUT port displays device video output. It displays video (1-window tour) from alarm activation channel you select at the Record channel item.
- Buzzer: Highlight the icon to enable this function. The buzzer beeps when an alarm occurs.
- Voice prompts: Check the box here to trigger audio broadcast function. You can select specified audio file here. System can play the audio file once the corresponding event occurs.
- Log: Check the box here, system can record motion detect log.
- Test: Click it to test current motion detect setup (do not need to save). Click Select button after Region, you can set motion detect area.

Please highlight icon  to select the corresponding function. After all the setups please click save button, system goes back to the previous menu.

**Note:**

In motion detection mode, you can not use copy/paste to set channel setup since the video in each channel may not be the same.

In Figure 4-104, you can left click mouse and then drag it to set a region for motion detection. Click Fn to switch between arm/withdraw motion detection. After setting, click enter button to exit.



Figure 4-103

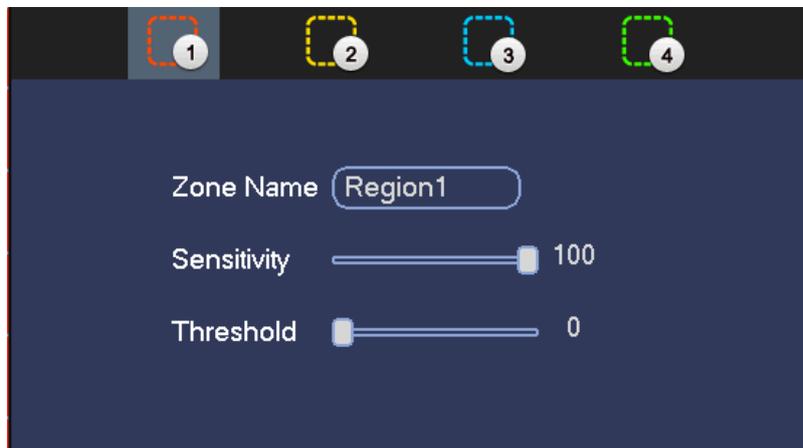


Figure 4-104

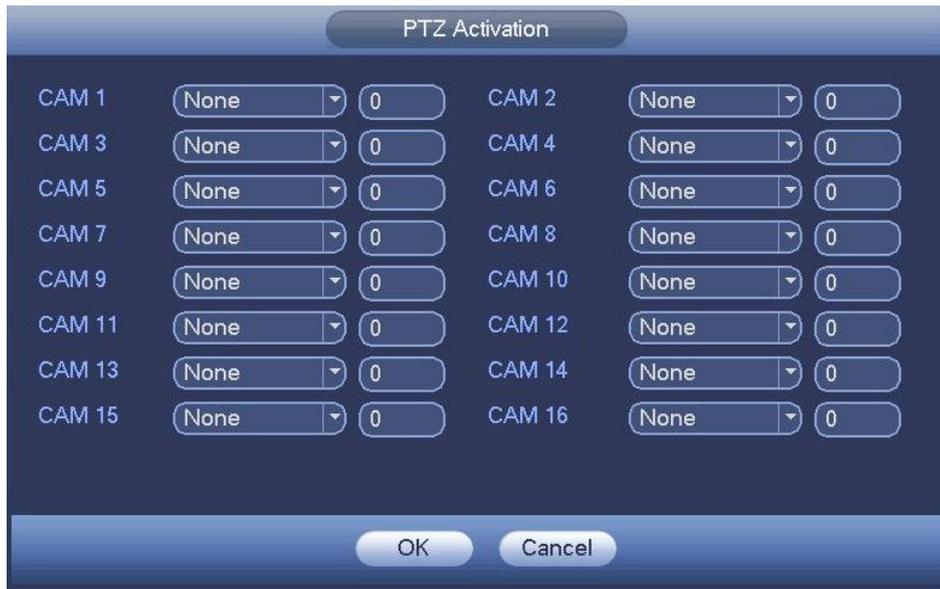


Figure 4-105



Figure 4-106



Figure 4-107

Motion detect here only has relationship with the sensitivity and region setup. It has no relationship with other setups.

#### 4.11.3.1.2 Video Loss

In Figure 4-103, select video loss from the type list. You can see the interface is shown as in Figure 4-108. This function allows you to be informed when video loss phenomenon occurred. You can enable alarm output channel and then enable show message function.

**Tips:**

You can enable preset/tour/pattern activation operation when video loss occurs. Please refer to chapter 4.11.3.1.1 motion detection for detailed information.

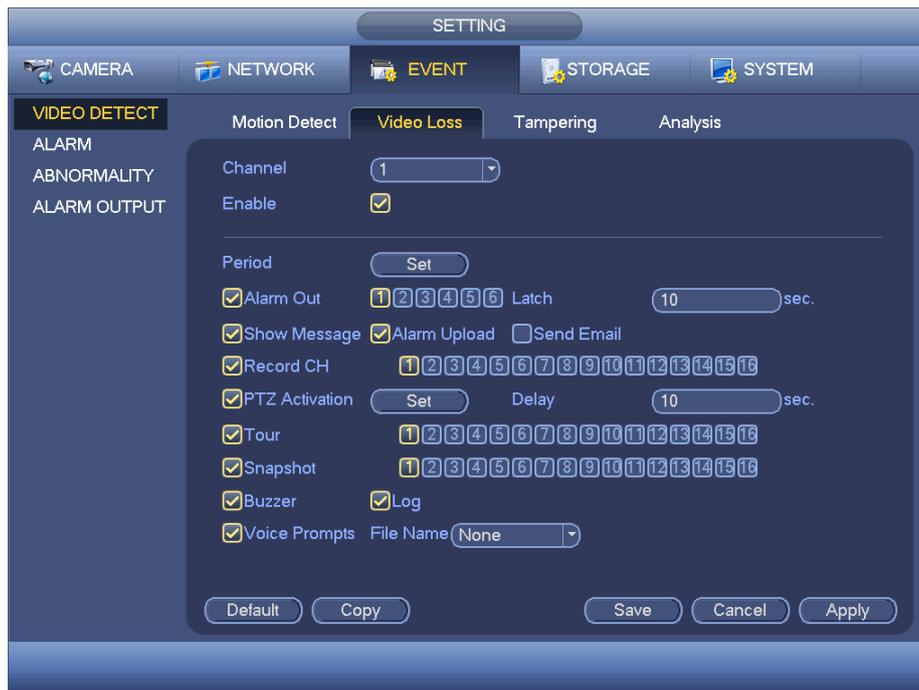


Figure 4-108

#### 4.11.3.1.3 Tampering

When someone viciously masks the lens, or the output video is in one-color due to the environments light change, the system can alert you to guarantee video continuity. Tampering interface is shown as in Figure 4-109. You can enable “Alarm output” or “Show message” function when tampering alarm occurs.

- Sensitivity: The value ranges from 1 to 6. It mainly concerns the brightness. The level 6 has the higher sensitivity than level 1. The default setup is 3.

#### Tips:

You can enable preset/tour/pattern activation operation when video loss occurs. Please refer to chapter 4.11.3.1.1 motion detection for detailed information.

#### Note:

- In Detect interface, copy/paste function is only valid for the same type, which means you can not copy a channel setup in video loss mode to tampering mode.
- About Default function. Since detection channel and detection type may not be the same, system can only restore default setup of current detect type. For example, if you click Default button at the tampering interface, you can only restore default tampering setup. It is null for other detect types.
- System only enables tampering function during the period you set here. It is null for motion detect or video loss type.



Figure 4-109

4.11.3.1.4 Analysis

System can trigger an alarm when the stripe, noise, color cast, out of focus, over exposure event occurred. See Figure 4-110.

Please refer to chapter 4.11.3.1.1 motion detection for detailed information.



Figure 4-110

This function allows you to be informed when video is blurry, over exposure or color cast occurs. You can enable alarm output channel and then enable show message function. Click the Rule Set button, or move the cursor to Set button and then click the

Enter button on the front panel, the interface is shown as below. See Figure 4-111. You can check corresponding type and then input alarm threshold.

- **Stripe:** The strip occurs when the device is old or there is electronic interference. There may be cross strip, vertical strip, slanting strip and etc.
- **Noise:** The video noise refers to the blurry video, poor video quality. It may result from the optical system distortion or the hardware problem during the video transmission when recording.
- **Color cast:** Usually the video is color containing RGB. When these three colors displayed in abnormal rate, we can say color cast occurred.
- **Out of focus:** The clear video presents abundant video details. The video definition decreases when the distortion event occurs. The out of focus event may result from many sources such as video transmission, processing and etc.
- **Over exposure:** The color brightness refers to the image pixel intensity. Black is the darkest and the white is the brightest. Once the brightness threshold of the whole image has exceeded the threshold value, it means the image is over exposure.
- **Threshold:** The value ranges from 1 to 30. System can generate an alarm once the value is higher than the threshold you set here.



Figure 4-111

#### Note

Video analysis alarm can trigger PTZ preset, tour, and pattern.

#### 4.11.3.2 Alarm

Before operation, please make sure you have properly connected alarm devices such as buzzer.

In the main menu, from Setting->Event->Alarm, you can see alarm setup interface.

For analog channel, there are two alarm types. See Figure 4-112 to Figure 4-113.

For HDCVI channel, there are three alarm types. See Figure 4-112 to Figure 4-114.

For digital channel, there are five alarm types. See Figure 4-112 through Figure 4-116.

- **Local alarm:** The alarm signal system detects from the alarm input port.

- Network alarm: It is the alarm signal from the network.
- HDCVI: System can get the camera temperature, smoke, external alarm and set corresponding alarm activation operation.
- IPC external alarm: It is the on-off alarm signal from the front-end device and can activate the local HDVR.
- IPC offline alarm: Once you select this item, system can generate an alarm when the front-end IPC disconnects with the local HDVR. The alarm can activate record, PTZ, snap and etc. The alarm can last until the IPC and the HDVR connection resumes.

**Important**

- **If it is your first time to boot up the device, the disconnection status of the front-end network camera will not be regarded as offline. After one successfully connection, all the disconnection events will be regarded as IPC offline event.**
  - **When IPC offline alarm occurs, the record and snapshot function of digital channel is null.**
  - Alarm in: Here is for you to select channel number.
  - Type: normal open or normal close.
  - PTZ activation: Here you can set PTZ movement when an alarm occurs. Such as go to preset, tour& pattern when there is an alarm. Click “select” button, you can see an interface is shown as in Figure 4-117.
  - Period: Click set button, you can see an interface is shown as in Figure 4-118. There are two ways for you to set periods. There are max 6 periods in one day. There are four record types: regular, motion detection (MD), Alarm, MD & alarm.
- ◇ In Figure 4-118, Select icon  of several dates, all checked items can be edited together. Now the icon is shown as . Click  to delete a record type from one period.
- ◇ In Figure 4-118. Click button  after one date or a holiday, you can see an interface shown as in Figure 4-119. There are four record types: regular, motion detection (MD), Alarm, MD & alarm.
- Anti-dither: Here you can set anti-dither time. Here you can set anti-dither time. The value ranges from 5 to 600s. The anti-dither time refers to the alarm signal lasts time. It can be seem as the alarm signal activation stays such as the buzzer, tour, PTZ activation, snapshot, channel record. The stay time here does not include the latch time. During the alarm process, the alarm signal can begin an anti-dither time if system detects the local alarm again. The screen prompt, alarm upload, email and etc will not be activated. For example, if you set the anti-dither time as 10 second, you can see the each activation may last 10s if the local alarm is activated. During the process, if system detects another local alarm signal at the fifth second, the buzzer, tour, PTZ activation, snapshot, record channel will begin another 10s while the screen prompt, alarm upload, email will not be activated again. After 10s, if system detects another alarm signal, it can generate an alarm since the anti-dither time is out.

- Show message: System can pop up a message to alarm you in the local host screen if you enabled this function.
- Alarm upload: System can upload the alarm signal to the network (including alarm centre) if you enabled current function.
- Send email: System can send out email to alert you when an alarm occurs.
- Record channel: you can select proper channel to record alarm video (Multiple choices). At the same time you need to set alarm record in schedule interface (Main Menu->Setting->Schedule) and select schedule record in manual record interface (Main Menu->Advance->Manual Record).
- Latch: Here is for you to set proper delay duration. Value ranges from 10 to 300 seconds. System automatically delays specified seconds in turning off alarm and activated output after external alarm cancelled.
- Tour: Here you can enable tour function when an alarm occurs. System supports 1/8-window tour. Please note the tour setup here has higher priority than the tour setup you set in the Display interface. Once there two tours are both enabled, system can enable the alarm tour as you set here when an alarm occurs. If there is no alarm, system implements the tour setup in the Display interface.
- Snapshot: System can snapshot corresponding channel when an alarm occurs. Please note the activation snapshot has the higher priority than schedule snapshot. If you have enabled these two types at the same time, system can activate the activation snapshot when an alarm occurs, and otherwise system just operates the schedule snapshot.
- Video matrix: Check the box here to enable this function. When an alarm occurs, SPOT OUT port displays device video output. It displays video (1-window tour) from alarm activation channel you select at the Record channel item.
- Buzzer: Highlight the icon to enable this function. The buzzer beeps when an alarm occurs.
- Log: Check the box here, system can record local alarm log.
- Voice prompts: Check the box here to trigger audio broadcast function. You can select specified audio file here. System can play the audio file once the corresponding event occurs.

**Please note, network alarm means the alarm signal from the TCP/IP. You can use NET SDK to activate network alarm. Comparing with the local alarm, there is no type, anti-dither, alarm upload function.**

Please highlight icon  to select the corresponding function. After setting all the setups please click save button, system goes back to the previous menu.



Figure 4-112



Figure 4-113



Figure 4-114



Figure 4-115

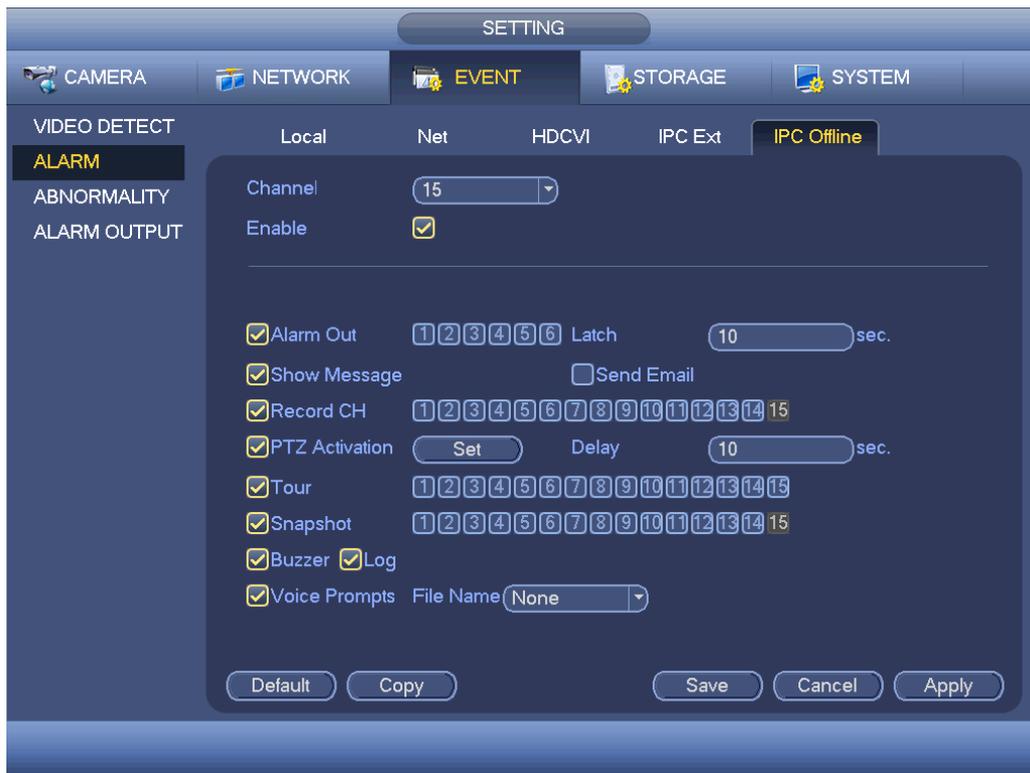


Figure 4-116

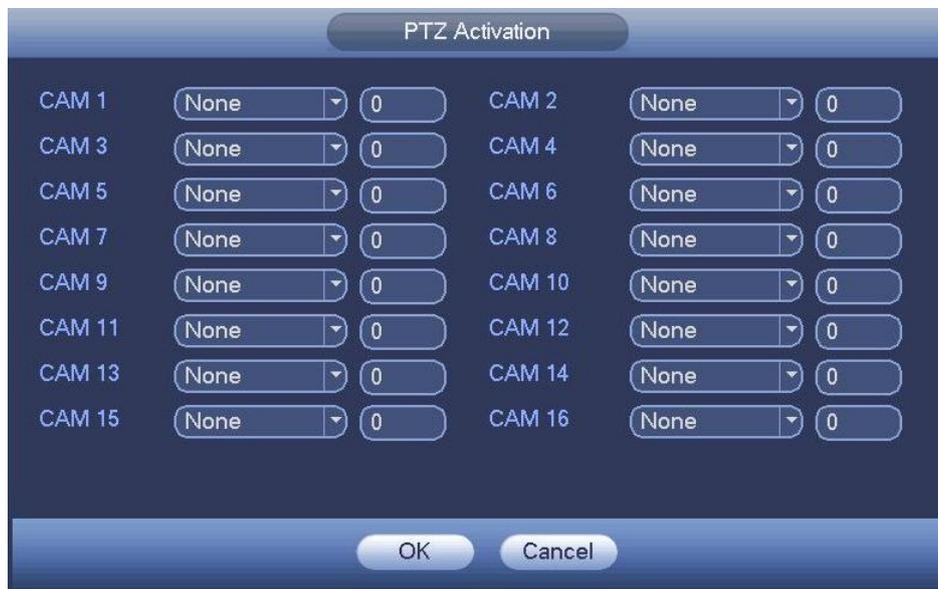


Figure 4-117



Figure 4-118



Figure 4-119

### 4.11.3.3 Abnormality

There are two types: HDD/Network.

- ◇ HDD: HDD error, no disk, no space. See Figure 4-120 and Figure 4-121.
- ◇ Network: Disconnection, IP conflict, MAC conflict, illegal login. See Figure 4-122 and Figure 4-123.
- Alarm output: Please select alarm activation output port (multiple choices).
- Less than: System can alarm you when the HDD space is less than the threshold you set here (For HDD no space type only).

- Latch: Here you can set corresponding delaying time. The value ranges from 1s-300s. System automatically delays specified seconds in turning off alarm and activated output after external alarm cancelled.
- Attempt(s): It is to set login attempt times. Once the login attempt exceeds the threshold you set here, current account will be locked. This function is for illegal login only.
- Lock time: It is to set account lock time once its login attempt has exceeded the threshold you set. This function is for illegal login only.
- Show message: system can pop up the message in the local screen to alert you when an alarm occurs.
- Alarm upload: System can upload the alarm signal to the network (including alarm centre) if you enabled current function. For disconnection event, IP conflict event and MAC conflict event, this function is null.
- Send email: System can send out email to alert you when an alarm occurs.
- Buzzer: Highlight the icon to enable this function. The buzzer beeps when an alarm occurs.
- Log: Check the box here, system can record network event log.
- Voice prompts: Check the box here to trigger audio broadcast function. You can select specified audio file here. System can play the audio file once the corresponding event occurs.



Figure 4-120



Figure 4-121



Figure 4-122



Figure 4-123

#### 4.11.3.4 Alarm Output

Here is for you to set proper alarm output such as schedule, manual.

Please highlight icon  to select the corresponding alarm output.

After all the setups please click OK button, system goes back to the previous menu. See Figure 4-124.



Figure 4-124