https://ivsecurity.com.au/support/analytics-ai-ivs/

RARE SOUND DETECTION FEATURE

ABOUT THIS DOCUMENT

Some of the iVSEC camera range have the Rare Sound Detection feature using AI and can log detection on the recorded timeline, send push notifications to a user, or email the results if required. The AI can also trigger a relay on cameras or NVRs that include alarm relay outputs if the device that have these included and are setup to trigger when a face is detected.

All instruction contained within this document are using the Web Interface, though similar steps are performed using the NVR Interface.

Cameras with this feature start at the following and include the later revisions :

NC323XD, NC323ADX, NC512ADX, NC512XD, NC528XD, NC531XD, NC531ADX, NC542ADX, NC543ADX, NC544ADX, NC691XB

GETTING STARTED

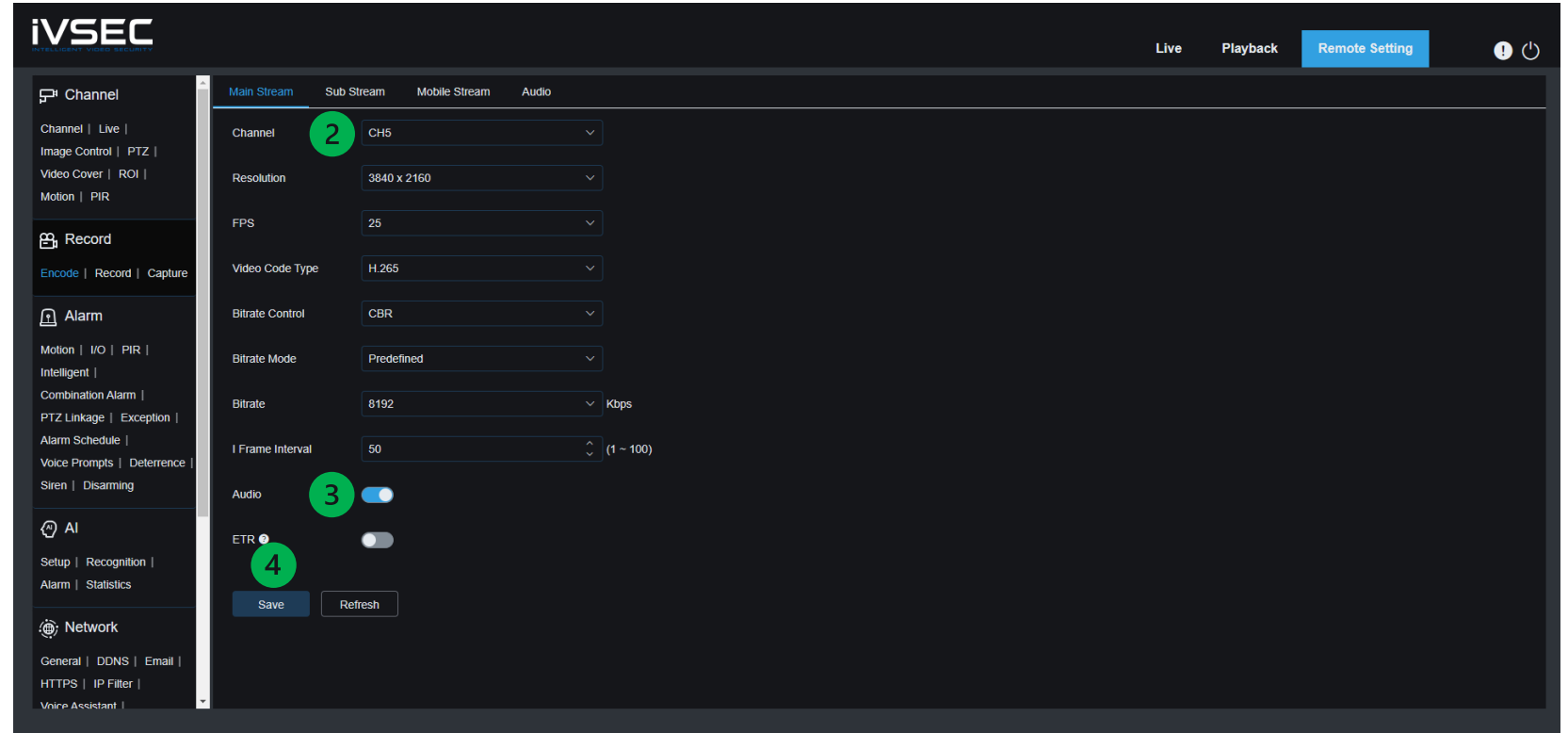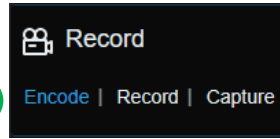To adjust these settings, you will have the following:

- LCD monitor and USB mouse connected to iVSEC recorder.
- Laptop (if you are logging into recorder using a web browser).
- iVSEC X mobile app installed and your iVSEC recorder added to the app.

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Rare Sound Detection – SETUP

1. Open the **Remote Settings** of the Camera and navigate to the **Record** section. Select the **Encode** option.

2. Select the camera you wish to use **Rare Sound Detection**.

3. Use the **Toggle** to turn on the **Audio** for that camera.t the camera **Channel** that you are wanting to use to detect Rare Sound Detections.

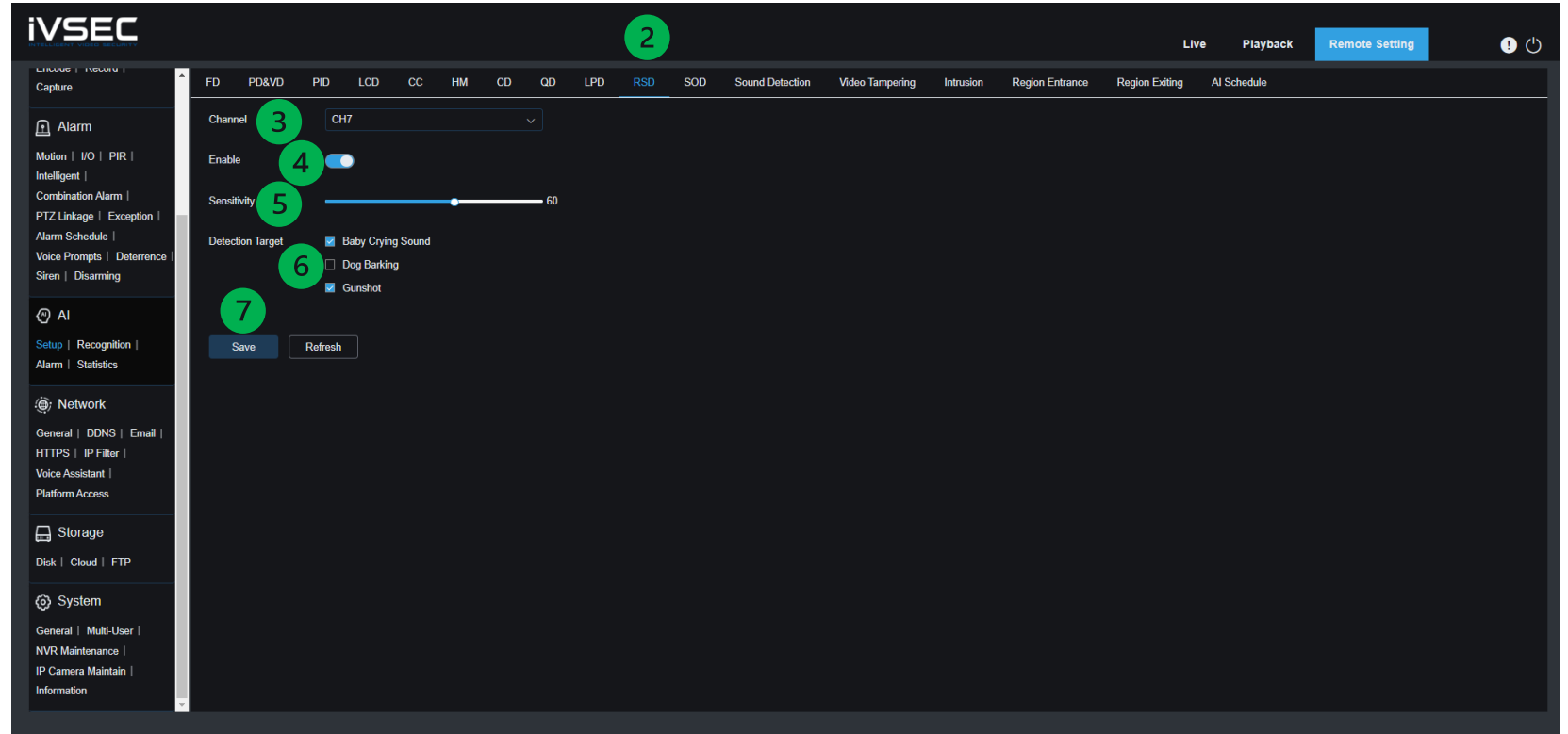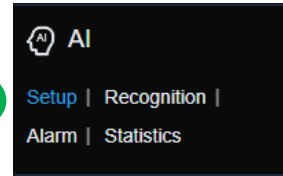4. The **Save** button will confirm the settings that you have changed and apply them.

Rare Sound Detection – SETUP

1 Open the **Remote Settings** of the Camera and navigate to the **AI** section.
Select the **Setup** option.

2 Select the **Rare Sound Detection** tab.

3 Select the camera **Channel** that you are wanting to use to detect Rare Sound Detections.

4 This is the **Toggle** in order to turn the **Rare Sound Detection** feature on or off.

5 The **Sensitivity** is able to be adjusted here, and by default it is 60.

6 The **Detection Target** is the type of **Rare Sound Detection** you are wanting to be alerted to. You must at all time have at least one of these options selected.

7 The **Save** button will confirm the settings that you have changed and apply them.

Rare Sound Detection – SETUP

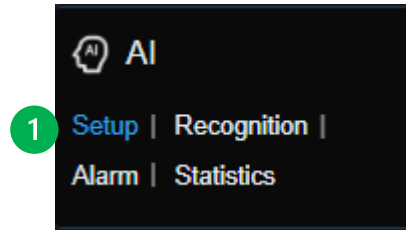**1** Navigate to the **AI** section.
Select the **Setup** option.

Clicking this will give you the option to select Schedule.

2 While you have enabled the **Rare Sound Detection** in the previous step, if you would like to enable the schedule, you will need to click on the **Enable** toggle.

3 If a square is coloured in green, then it means that that at that time of day a Pedestrian and/or Vehicle will cause the Alarm to trigger.

4 If a square is coloured in black, then it means that that at that time of day nothing will cause the **Alarm** to trigger.

In the example an alarm will not trigger between 06:00-08:00 or 14:00-16:00, even if a Pedestrian and/or Vehicle is detected.
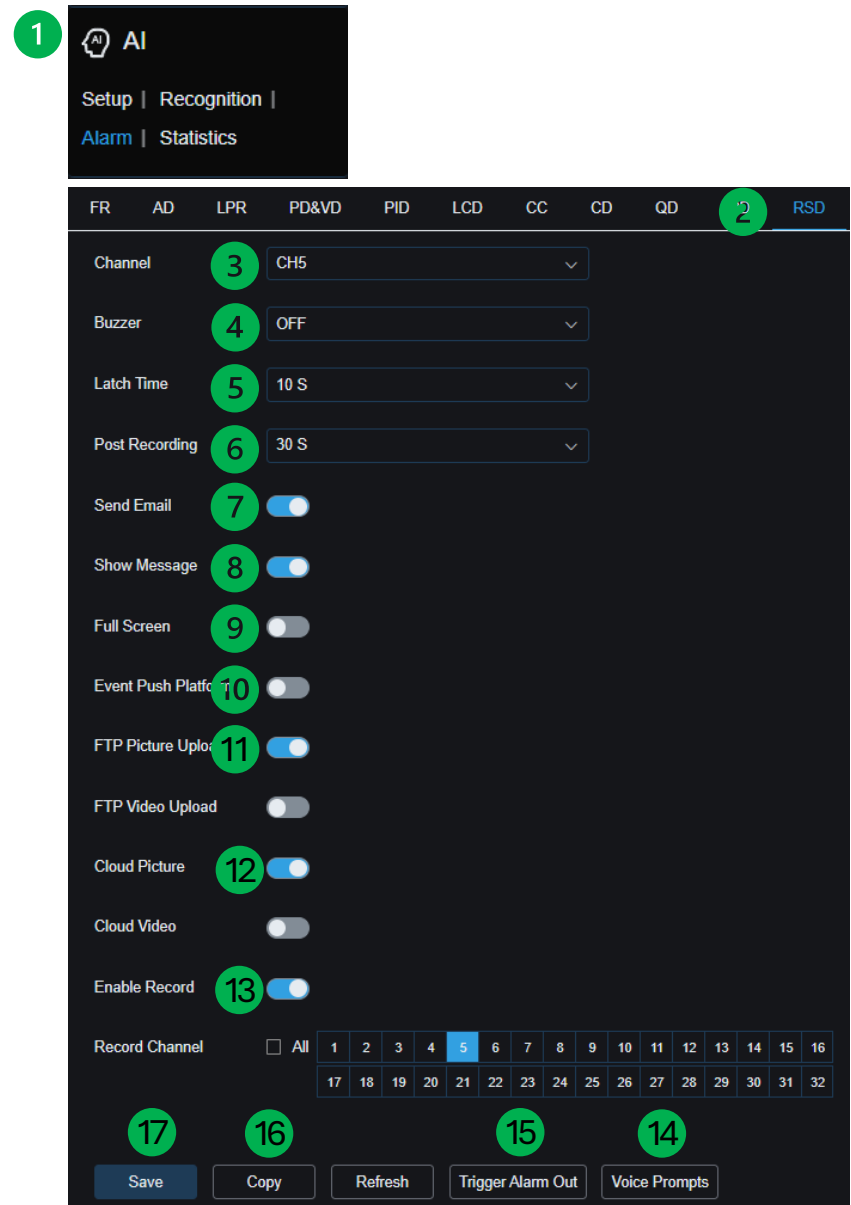
These times are individual for AI Function and are mutually exclusive.

6 The **Save** button will confirm the schedule that you have created.

Rare Sound Detection – AI - ALARM

1 Navigate to the **AI** section.
Select the **Alarm** option.

2 Select the **Rare Sound Detection** tab.

3 The **Channel** refers to the camera channel you will be configuring for.

4 The **Buzzer** is the internal buzzer of the NVR.

5 The **Latch Time** relates to how long the alarm output for that camera will be latched. This can be used to trigger an audible security alarm, a visual alarm indicator, or trigger the release of a doors lock/unlock feature.

6 **Post Recording** is for how long the channels set in **Record Channel** will record for.

7 The **Send Email** option is so an email can be sent to a nominated email account. This is set up under **Network >> Email**.

8 **Show Message** will have a message pop up in the bottom right-hand corner of the NVR.

9 **Full Screen** will make the channel that has been triggered become full screen.

10 **Event Push Platform** will trigger the API HTTP call that you have set up. For how to do this, please check out our comprehensive guide.

11 The **FTP Picture Upload** option is similar to the email one above, but is configured under **Network >> FPT**.

12 The **Cloud Picture** option is to allow the face that is captured to be uploaded to the cloud.
This is configured under **Device >> Cloud**.

13 **Enable Record** will allow the nominated **Record Channels** to save footage.

14 **Voice Prompt** will play the previously uploaded MP3 during nominated periods.

15 The **Trigger Alarm Out** button opens the menu to select which physical outputs will be triggered when a face is detected.

16 The Copy button allows you to copy the settings you have to other channels (if the device has more than one channel).
NOTE: You must have saved the changes before copying to other channels or it will not work.

17 Finally, there is the **Save** or **Cancel** options, which do exactly what they say.
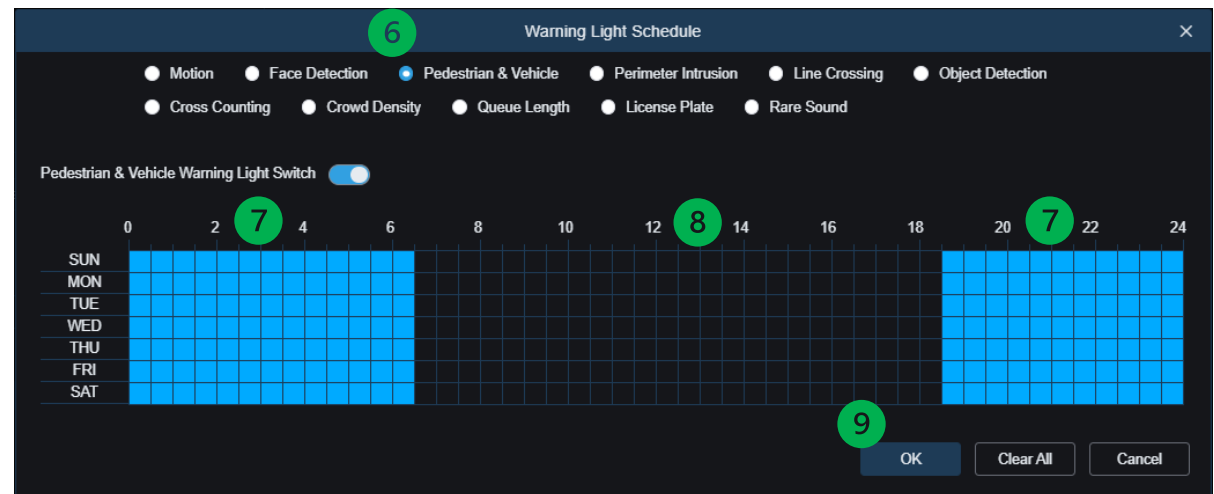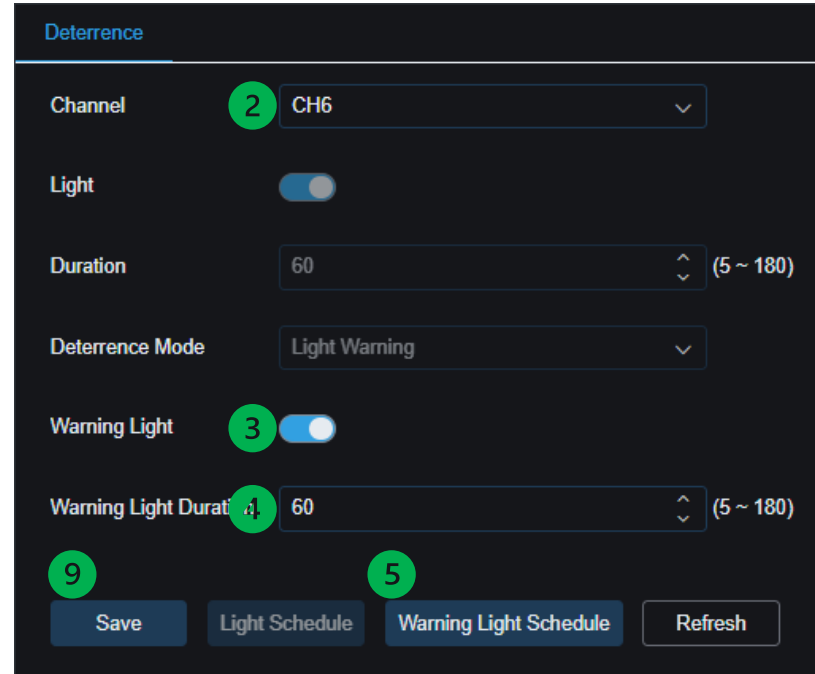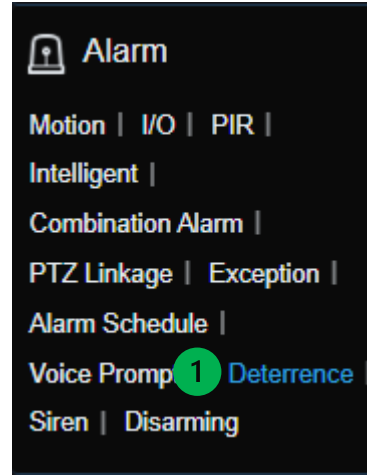
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Rare Sound Detection – ALARM – DETERENCE

1 Navigate to the **Alarm** section.
Select the **Deterrence** option.

2 The **Channel** refers to the camera channel you will be configuring for.

3 The **Warning Light** toggle will allow you to turn the feature on or off.

4 The **Warning Duration** is how many seconds the light will be on. This can be from 5 seconds to 180 seconds.

5 The **Warning Light Schedule** will open up the schedule by which the deterrence will operate.

6 Select **Pedestrian & Vehicle**.

7 Select the time on the schedule that you want the deterrence to operate.

If a square is coloured in bule, then it means that that at that time of day a Pedestrian and/or Vehicle will cause the deterrence to trigger.

8 If a square is coloured in black, then it means that that at that time of day nothing will cause the deterrence to trigger.

9 Press **OK** and then **Save** to submit changes.

Alarm

Motion | I/O | PIR |
Intelligent |
Combination Alarm |
PTZ Linkage | Exception |
Alarm Schedule |
Voice Prompt **1** Deterrence |
Siren | Disarming

Deterrence

Channel	**2** CH6
Light	(toggle on)
Duration	60 (5 ~ 180)
Deterrence Mode	Light Warning
Warning Light	**3** (toggle on)
Warning Light Duration **4**	60 (5 ~ 180)

9 Save **5** Light Schedule | Warning Light Schedule | Refresh

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6 Warning Light Schedule

○ Motion   ○ Face Detection   ● Pedestrian & Vehicle   ○ Perimeter Intrusion   ○ Line Crossing   ○ Object Detection
○ Cross Counting   ○ Crowd Density   ○ Queue Length   ○ License Plate   ○ Rare Sound

Pedestrian & Vehicle Warning Light Switch (toggle on)

0   2 **7**   4   6   8   10   12 **8**   14   16   18   20 **7**   22   24
SUN
MON
TUE
WED
THU
FRI
SAT

9 OK | Clear All | Cancel

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Rare Sound Detection – ALARM – SIREN

1. Navigate to the **Alarm** section.
Select the **Siren** option.

2. The **Channel** refers to the camera channel you will be configuring for.

3. The **Siren** toggle will allow you to turn the feature on or off.

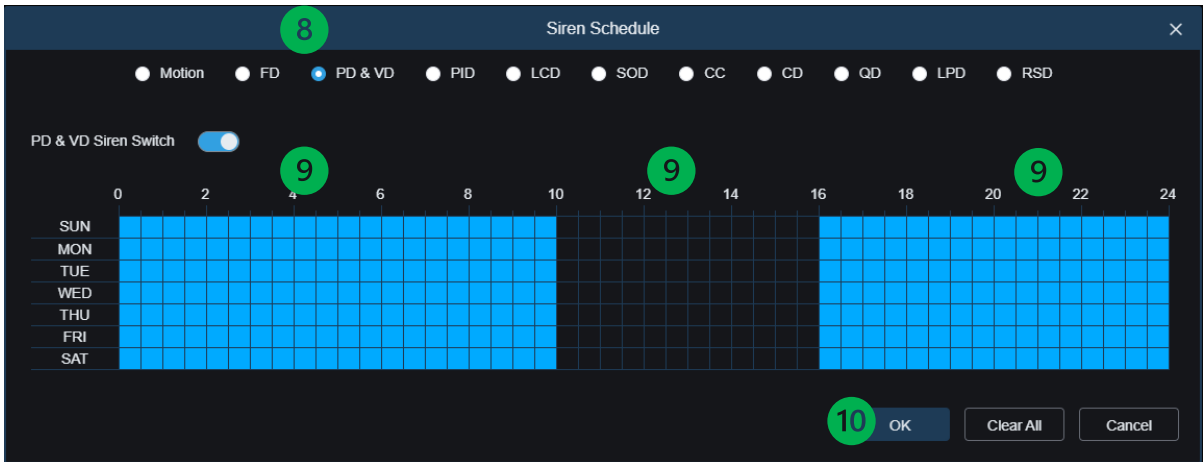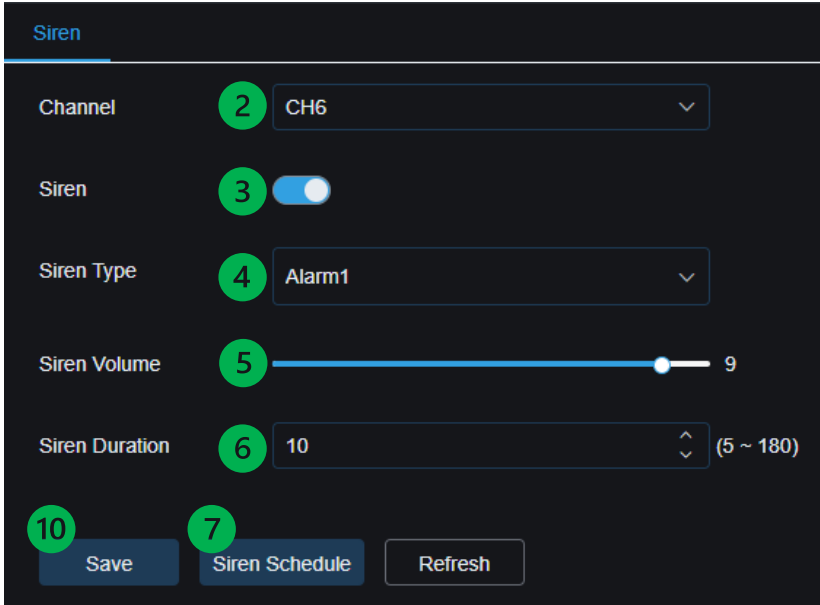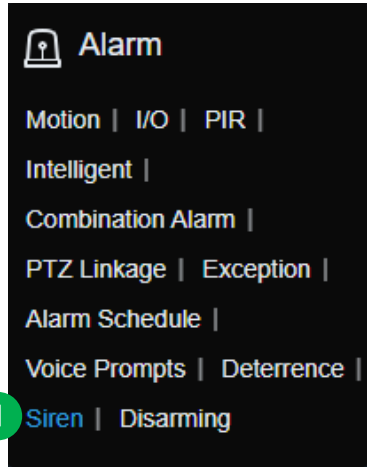4. The **Siren Type** allows you to choose from several different sirens, including user defined ones.

5. The **Siren Volume** will change how loud the siren will be.

6. The **Siren Duration** is how many seconds the light will be on. This can be from 5 seconds to 180 seconds.

7. The **Siren Light Schedule** will open up the schedule by which the deterrence will operate.

Select **PD & VD**.

Select the time on the schedule that you want the deterrence to operate.

8. If a square is coloured in bule, then it means that that at that time of day a Pedestrian and/or Vehicle will cause the deterrence to trigger.

9. If a square is coloured in black, then it means that that at that time of day nothing will cause the deterrence to trigger.
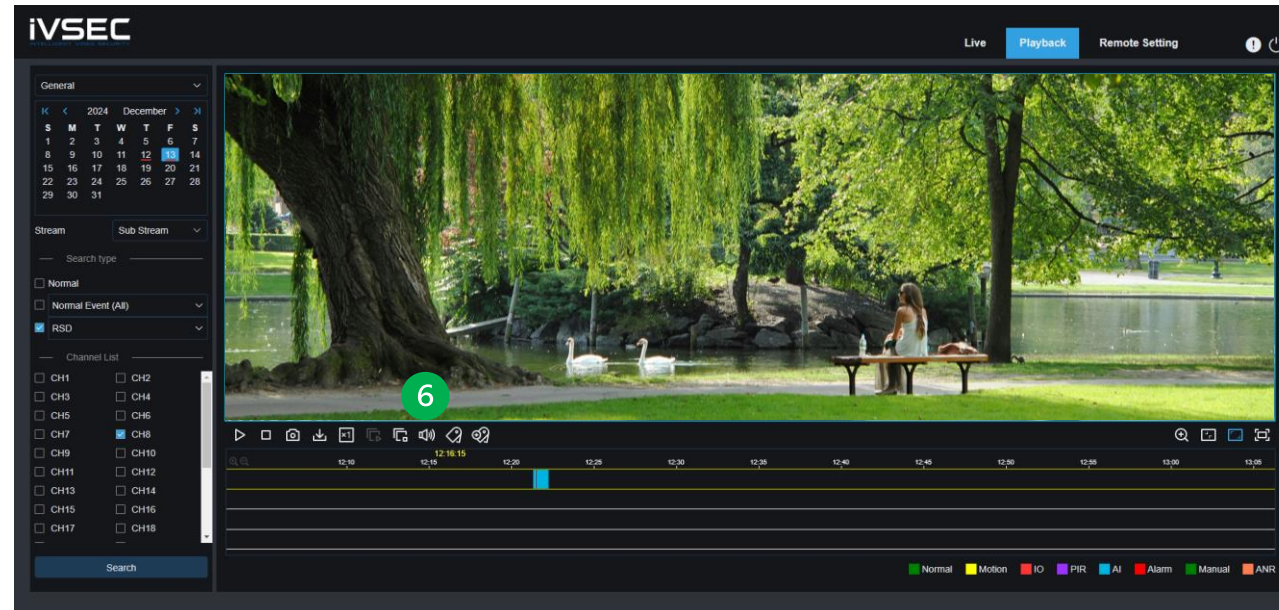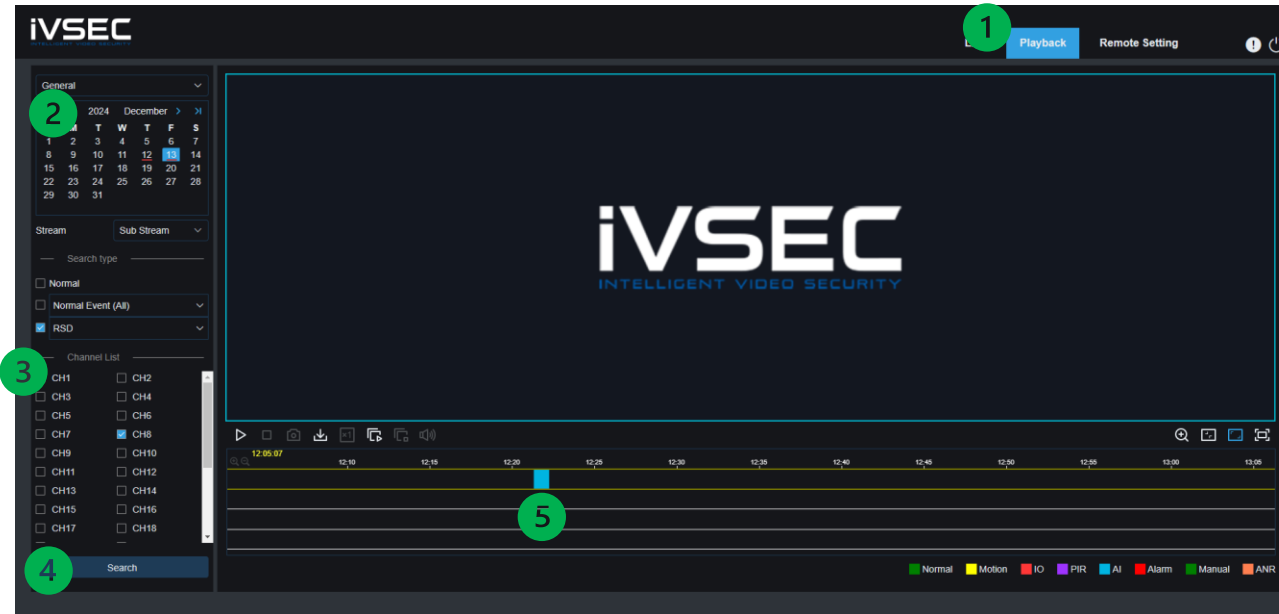
10. Press **OK** and then **Save** to submit changes.

Alarm

Motion | I/O | PIR |
Intelligent |
Combination Alarm |
PTZ Linkage | Exception |
Alarm Schedule |
Voice Prompts | Deterrence |
Siren | Disarming

Siren

Channel — CH6
Siren — (toggle)
Siren Type — Alarm1
Siren Volume — 9
Siren Duration — 10 (5 ~ 180)

Save   Siren Schedule   Refresh

Siren Schedule

Motion   FD   PD & VD   PID   LCD   SOD   CC   CD   QD   LPD   RSD

PD & VD Siren Switch

SUN MON TUE WED THU FRI SAT

OK   Clear All   Cancel

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Rare Sound Detection – PLAYBACK

1 Click on the **Playback** tab.

2 Select the **Date** that you wish to review footage for

3 Unselect all **Search Types** except for **Rare Sound Detection (RSD)**. This will then only show when a Rare Sound has been detected.

4 Click the **Search** button

5 This will show only the times that the cameras that were set to detect for Rare Sound Detections will show content.

6 When watching the playback, you need to ensure that the audio is on and not disabled.

You will hear the audio being played back that was detected as a rare sound during the period highlighted.

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