



# iVSEC

INTELLIGENT VIDEO SECURITY

<https://ivsecurity.com.au/support/analytics-ai-ivs/>  
PEDESTRIAN AND VEHICLE DETECTION FEATURE

## ABOUT THIS DOCUMENT

Some of the iVSEC camera range have the Pedestrian and Vehicle 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:

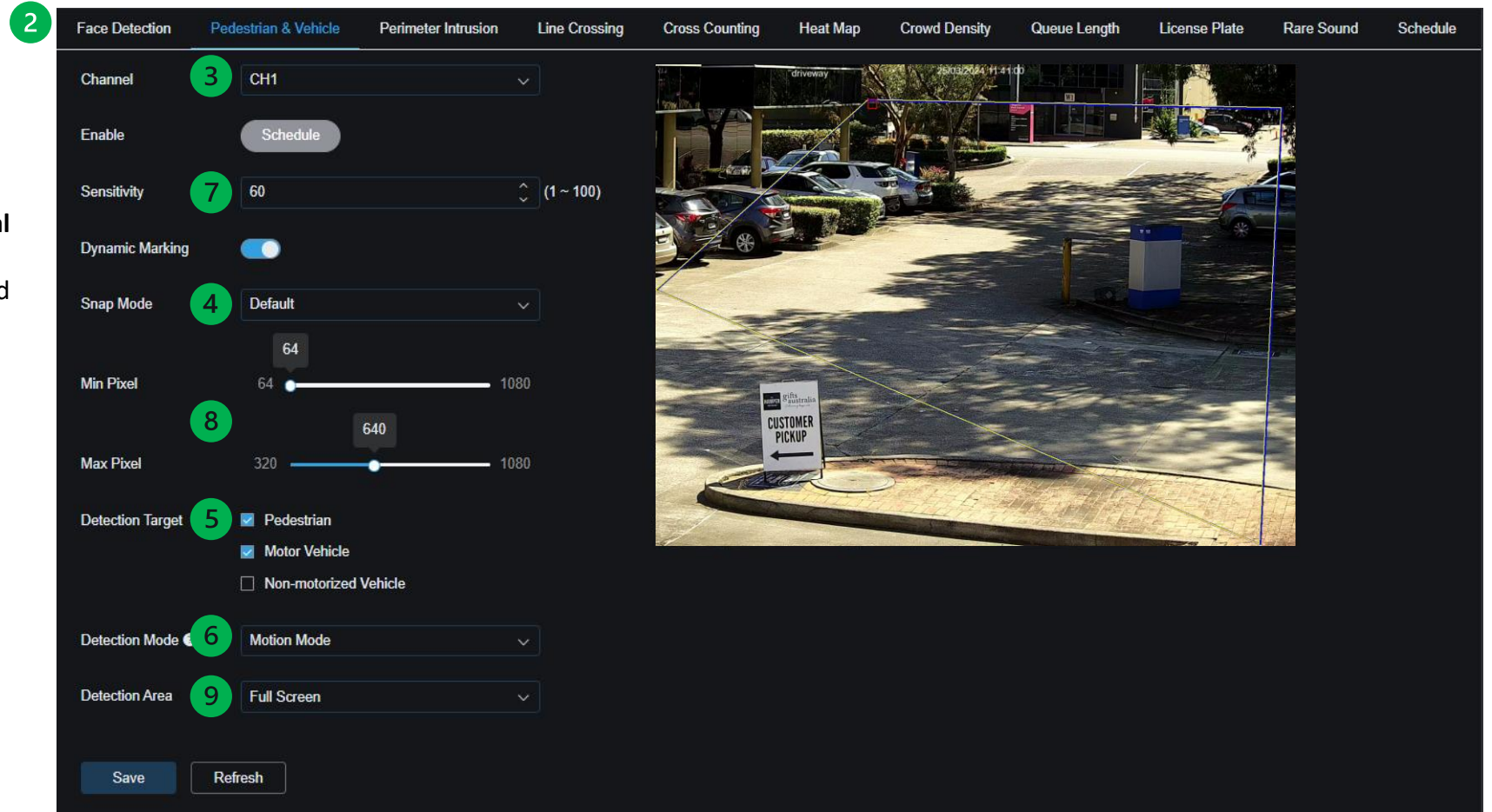
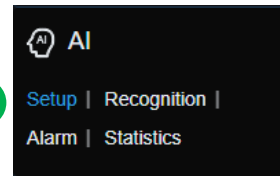
- LCD monitor and USB mouse connected to iVSEC recorder.
- Laptop (if you are logging into recorder using a web browser).
- iVSEC X mobile app installed and your iVSEC recorder added to the app.

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# Pedestrian and Vehicle Detection – SETUP

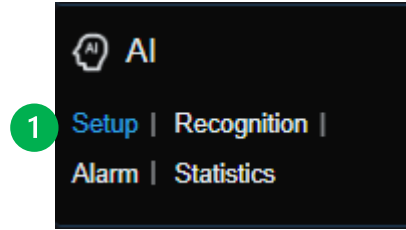
- 1 Open the **Remote Settings** of the Camera and navigate to the **AI** section. Select the **Setup** option.
- 2 Select the **Pedestrian and Vehicle Detection** tab.
- 3 Select the camera **Channel** that you are wanting to use to detect Pedestrian and Vehicle Detections.
- 4 Change the **Snap Mode** from **Default** to **Real Time**. If you would like a periodic snapshot, then choose then choose **Interval Mode** and choose your desired interval.
- 5 Select the **Detection Target** types that you are interested in. The options are : **Pedestrian, Motor Vehicle, Non-motorised vehicle**.
- 6 Change the **Detection Mode** from **Hybrid Mode** to **Motion Mode**; unless you are wanting to analyse stationary plates as well.
- 7 There are extra features that can be adjusted, such as **Sensitivity** (for motion),
- 8 **Min/Max Pixel** (so that Pedestrian and Vehicle Detections in the far distance don't register), and
- 9 **Detection Area** (so that the whole screen or a specific region can be defined).



# Pedestrian and Vehicle Detection – SETUP

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

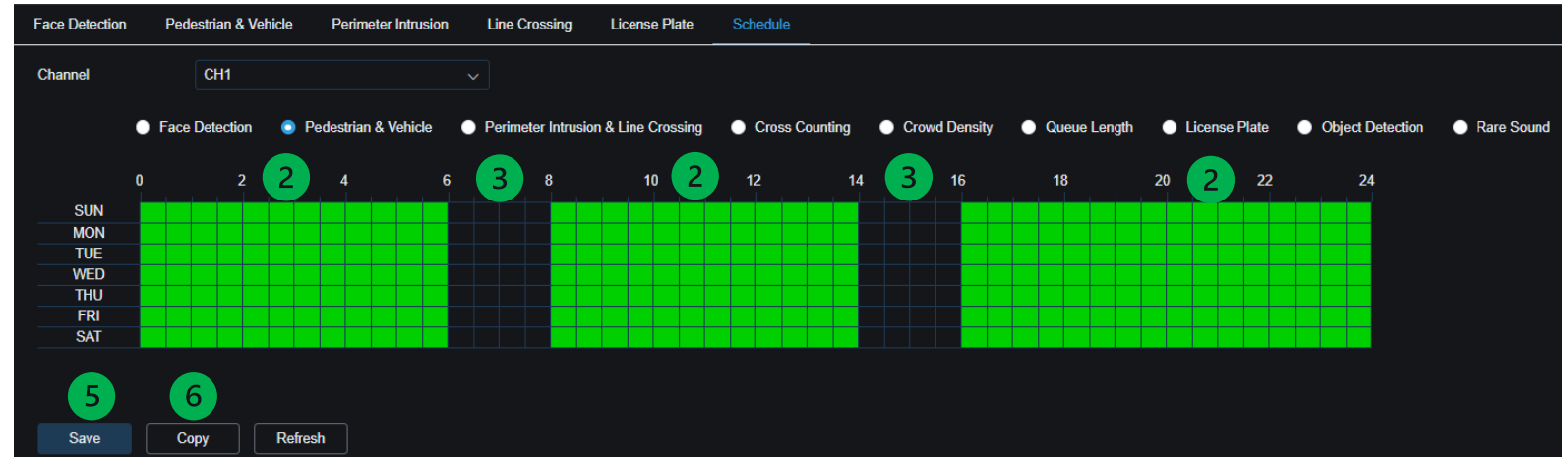
Clicking this will give you the option to select Schedule.



- 2 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.

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

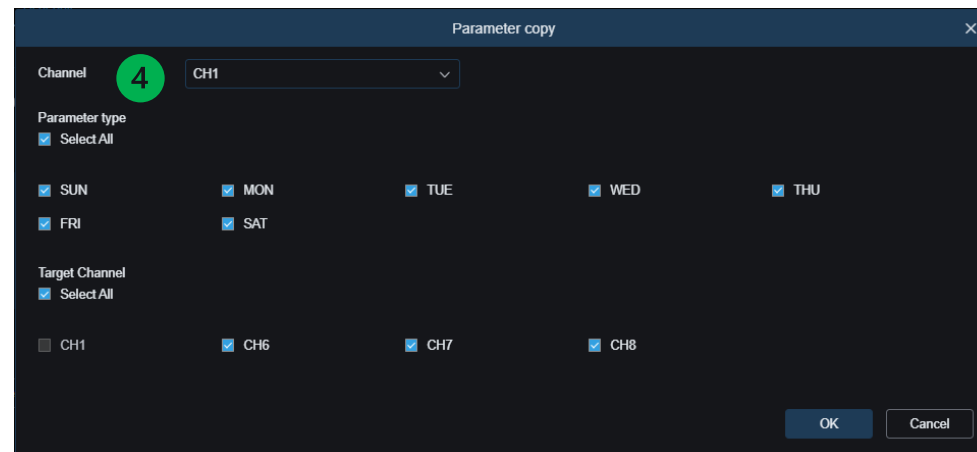
In the example an alarm will not trigger between 06:00-08:00 or 14:00-16:00, even if a Pedestrian and/or Vehicle is detected.



- 4 These times are individual for AI Function and are mutually exclusive.

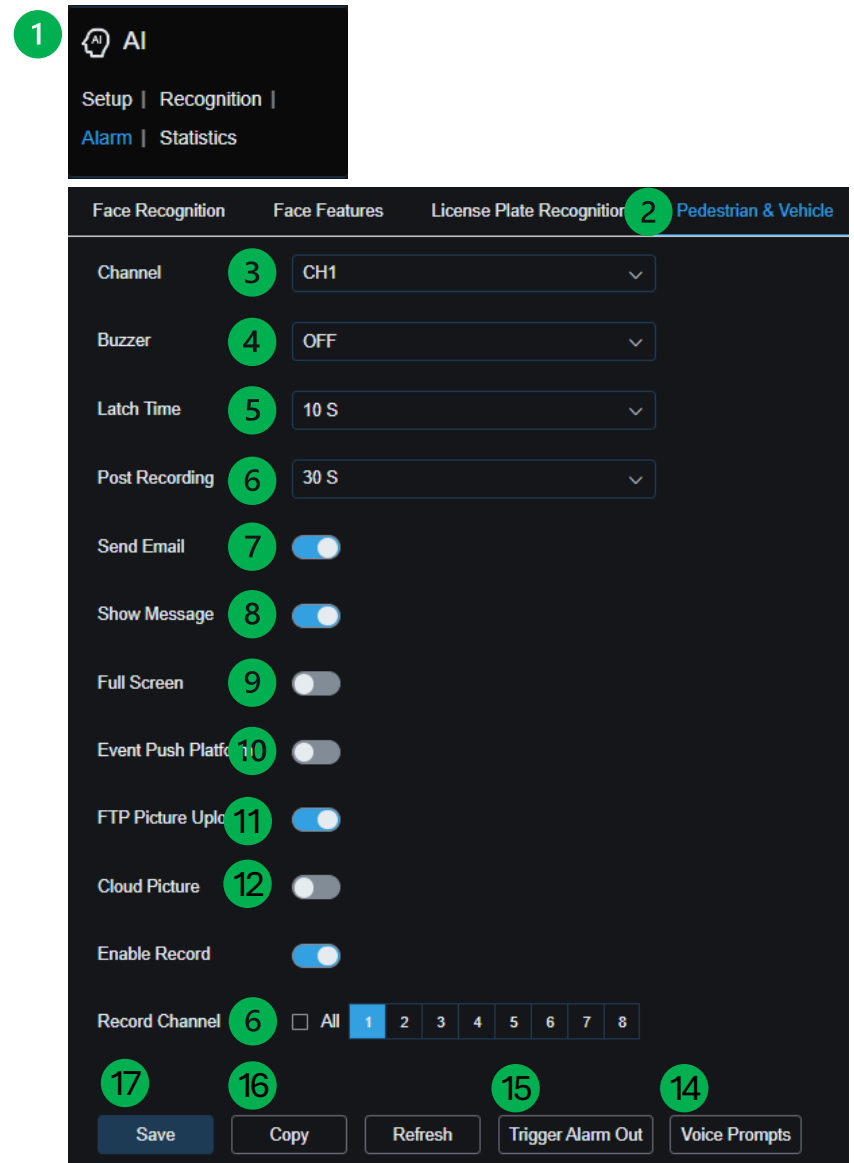
- 5 The **Save** button will confirm the schedule that you have created.

- 6 The **Copy** button will open a dialogue box that allows you to copy all or part of the current cameras Alarm settings.



## Pedestrian and Vehicle Detection – AI - ALARM

- 1 Navigate to the **AI** section. Select the **Alarm** option.
- 2 Select the **Pedestrian and Vehicle 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.





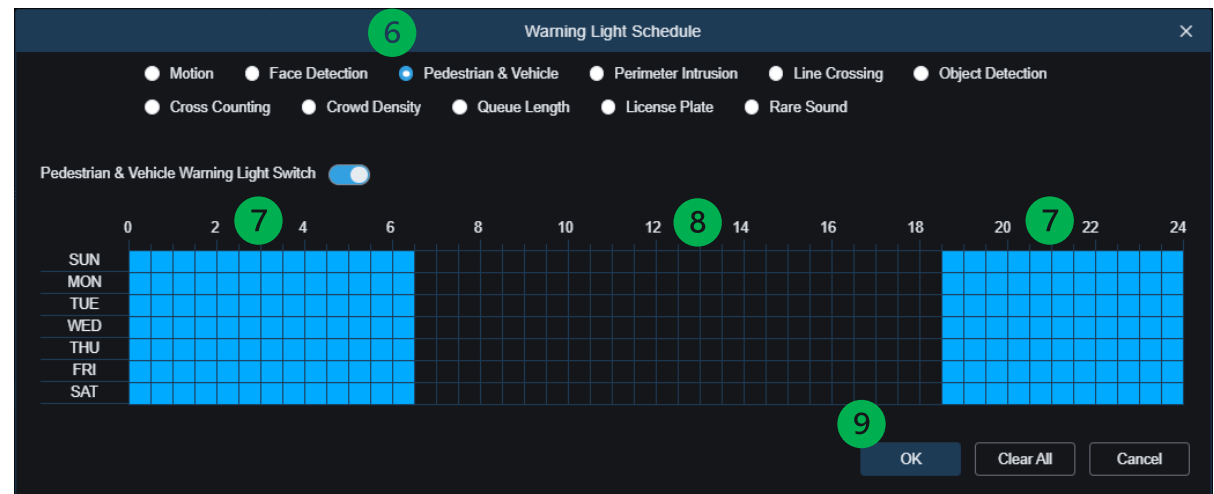
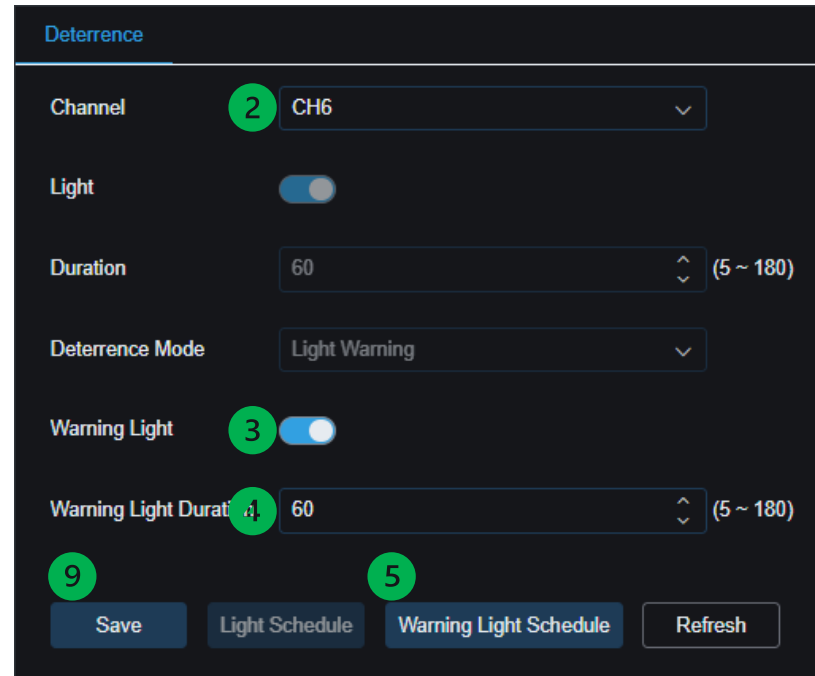
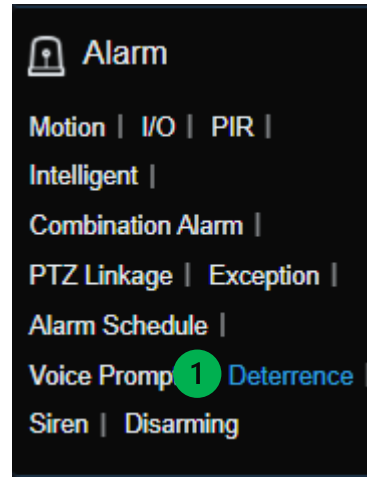
# Pedestrian and Vehicle Detection – ALARM – DETERRENCE

- 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 blue, then it means 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 at that time of day nothing will cause the deterrence to trigger.

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



# Pedestrian and Vehicle 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.

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

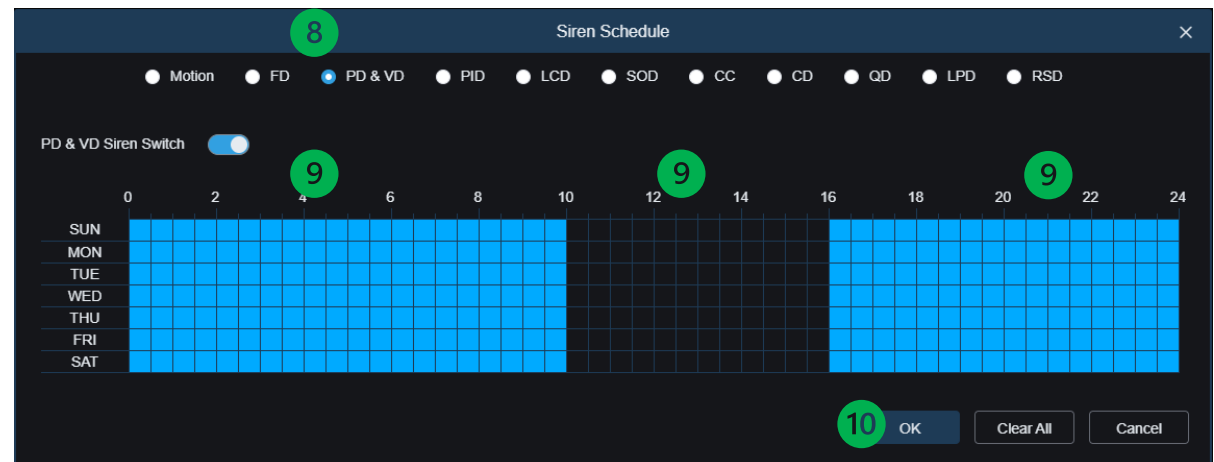
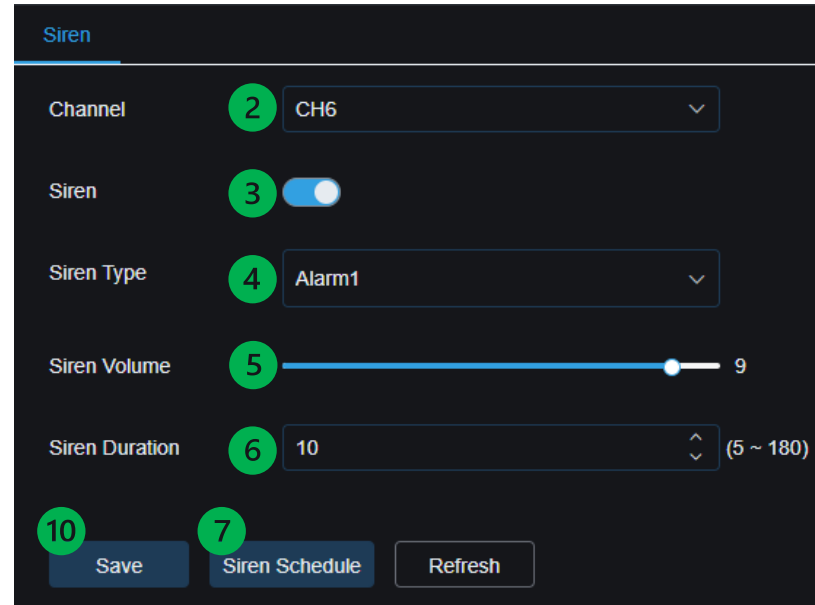
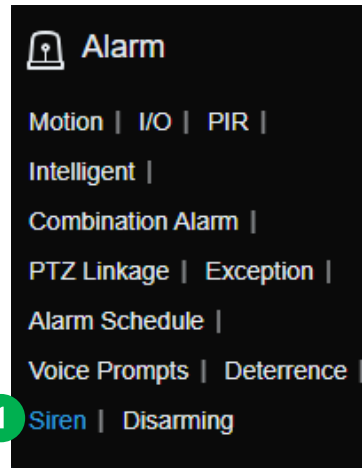
7 Select **PD & VD**.

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

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

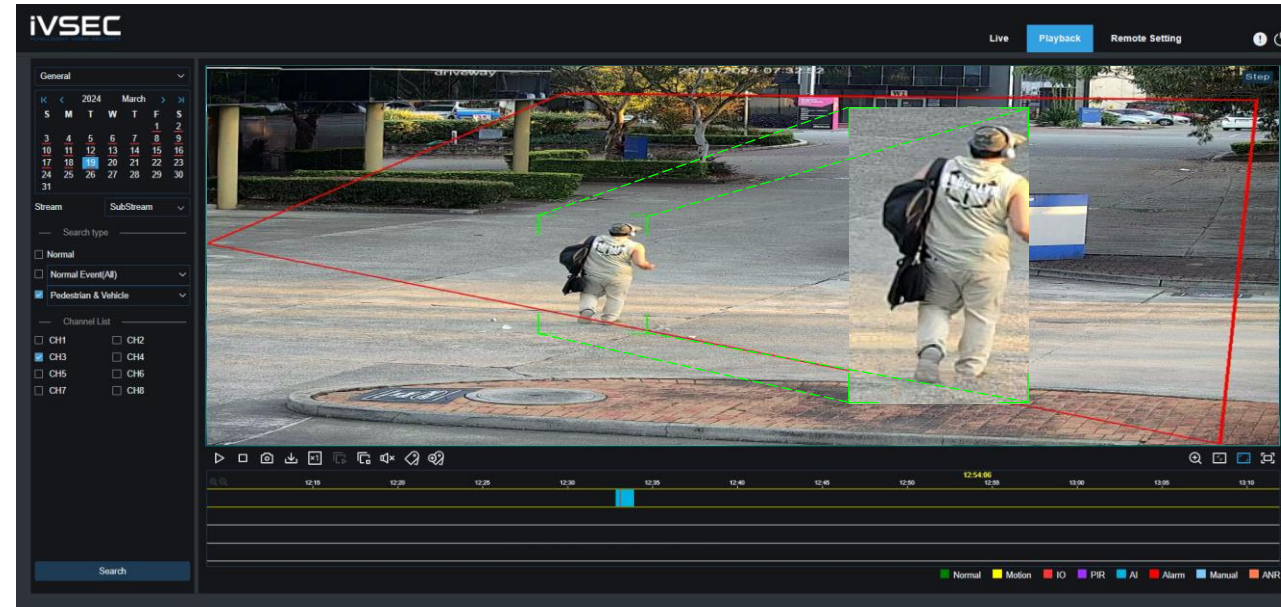
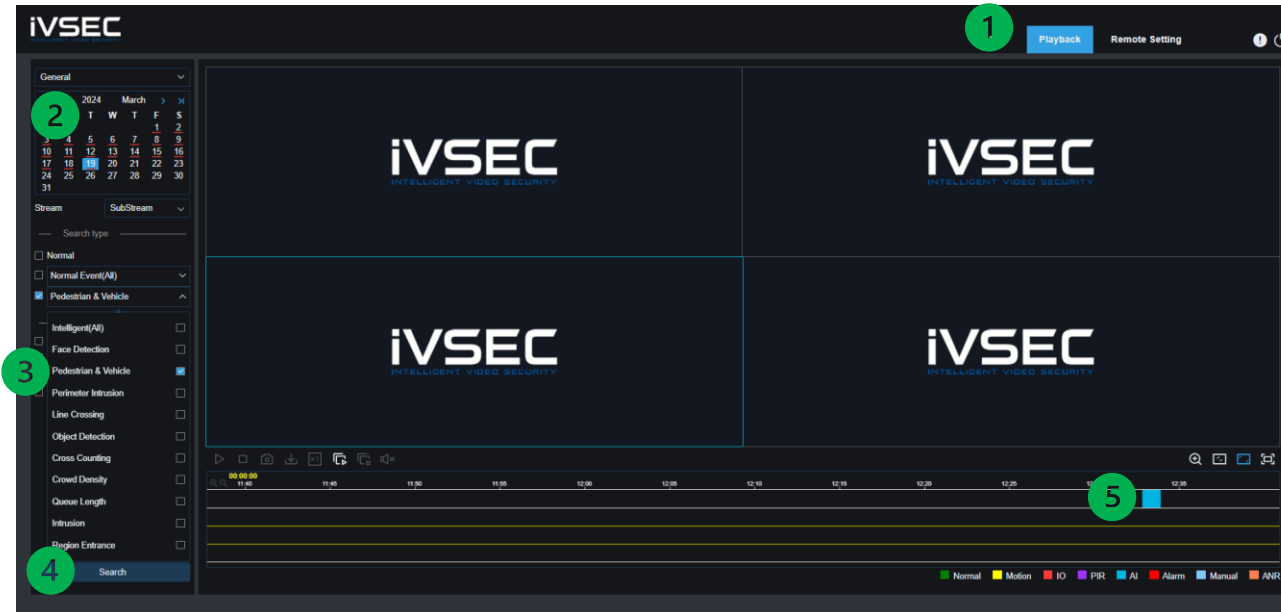
If a square is coloured in black, then it means that at that time of day nothing will cause the deterrence to trigger.

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



# Pedestrian and Vehicle 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 **Pedestrian & Vehicle**. This will then only show when a Pedestrian and/or Vehicle Detection has been detected.
- 4 Click the **Search** button
- 5 This will show only the times that the cameras that were set to detect for Pedestrian and Vehicle Detections will show content.
- 6 When watching the playback, you will see a green rectangle drawn around the person detected. As you playback the footage, you will be able to see the recorded instances of Pedestrians and/or Vehicles that have been detected.







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