

## IVS2.2 Human & Vehicle Detection

Internet Explorer 11 must be used to configure the camera.

- Enter Setup/Advance Mode/Smart Event in the top menu. Then IVS in the menu on the left-hand side. The following page will load.

The screenshot shows the LILIN camera configuration interface. At the top, there is a navigation bar with the LILIN logo on the left and links for 'Live | Basic Mode | Advance Mode | Language | Logout' on the right. Below this is a menu bar with tabs for 'System', 'Video / Audio', 'Network', 'SmartEvent', 'Notification', and 'Maintenance'. The 'SmartEvent' tab is selected. On the left side, there is a sidebar menu with options: 'SmartEvent', 'IVS', 'IVS Setting', 'Detection Zone for Car and Human', 'Network Detection', and 'Push Service Setting'. The 'IVS Setting' option is selected. The main content area displays the path 'Advance >> SmartEvent >> IVS'. Below this, there is a table showing 'IVS Status' as 'Enable' and 'IVS Version' as 'v2.2'. A list of detection options follows, each with a radio button: 'Motion Detection, Tampering Detection', 'Advanced Motion Detection (Less false alarm at night)', 'Traffic Light Detection', 'Tripwire Detection', 'Object Counting', 'Unattended Object Detection', 'Missing Object Detection', 'Crowd Detection', 'Loitering Detection', 'Face Detection', and 'Detection Zone for Car and Human'. The 'Detection Zone for Car and Human' option is selected. Below the list, there is a red warning message: 'The OSD of streaming #4 is disabled, if Detection Zone for Car and Human gets enabled. If enable Detection Zone for Car and Human function, Tampering detection will be disabled in the SmartEvent page. Rotate is disabled, if Detection Zone for Car and Human gets enabled.' At the bottom right, there is a 'Submit' button.

Select 'Detection Zone for Car and Human' and press Submit.

The camera will reboot.

Note: The camera must have an IVS2.2 license to see these options.

In optimal conditions the expected read rate can be up to 85%


- Select **Detection Zone for Car and Human** in the left-hand menu.

**LILIN** Live | Basic Mode | Advance Mode | Language | Logout

System Video / Audio Network SmartEvent Notification Maintenance

SmartEvent  
IVS  
IVS Setting  
Detection Zone for Car and Human  
Network Detection  
Push Service Setting

Advance >> Event >> Detection Zone for Car and Human



Detection Zone for Car and Human  Enable  Disable

Detection Type: Car and Human ▼

Select Area: Zone ▼

Sensitivity: Normal ▼

Edit Clean

Your image will load with the as above.

Select Edit and enable.

Select **Detection Type** from the drop-down menu.

**Car and Human:** This will recognize both Vehicles and Humans.

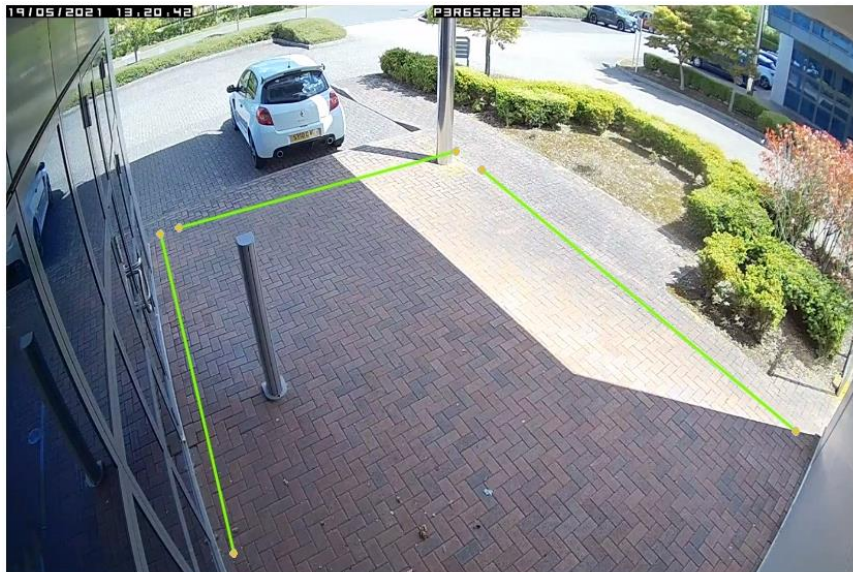
**Car:** This will only recognize vehicles.

**Human:** This will recognize only Humans.

Your selected detection type will be recognized anywhere on the screen (you can adjust the required sizes of objects in IVS Settings)

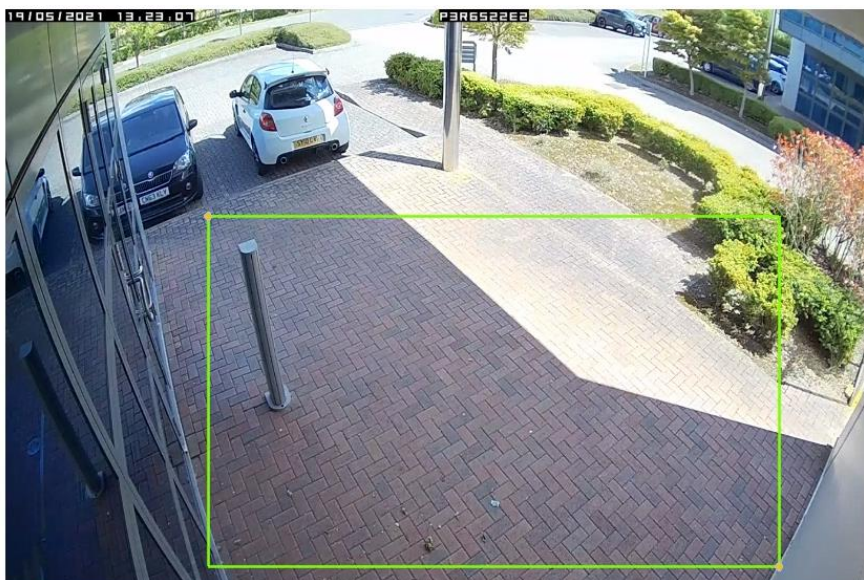
Next draw an area that will create an alarm when your detection type enters or moves over.

There are 2 types of areas **Zone** or **Rectangle**.



Detection Zone for Car and Human  Enable  Disable  
Detection Type Car and Human ▾  
Select Area Zone ▾  
Sensitivity Normal ▾

With **Zone** you can draw up to 8 lines on your screen. An alarm is activated when your detection type moves over any of these lines.



Detection Zone for Car and Human  Enable  Disable  
Detection Type Car and Human ▾  
Select Area Rectangle ▾  
Sensitivity Normal ▾

With **Rectangle** you can draw up to 8 rectangles. An alarm is activated when your detection type enters the rectangle or moves once inside the rectangle.

- Select **IVS Settings** in the left-hand side menu. Here you can adjust settings to optimize the IVS performance for your scene.

**LILIN** Live | Basic Mode | Advance Mode | Language | Logout

System
Video / Audio
Network
SmartEvent
Notification
Maintenance

---

SmartEvent

IVS

IVS Setting

Detection Zone for Car and Human

Network Detection

Push Service Setting

Advance >> SmartEvent >> IVS Setting

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Camera View: Horizontal ▾

Processing Quality:  Low  Medium  High

Enable	Min Width	Max Width	Min Height	Max Height
<input checked="" type="checkbox"/>	10 ▾%	50 ▾%	10 ▾%	80 ▾%

Confidence: 50 ▾ (Low:1~High:100)

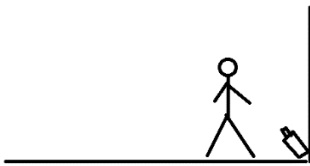
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Relearn Background

**Camera view** has 3 options in the drop-down menu.

**Horizontal:** This is the default and is suitable for most IP camera installations

**Overhead:** When the camera is installed below the target object (as below)



**Angle:** When the camera is installed above the object but with a very narrow angle (as below)



**Processing Quality** can be set to low, medium (default) or High depending on the quality of your image.

**Confidence:** adjust this between 1 (low) and 100 (high), to optimize your recognition rate based on how confident the camera is that the object is Human or Vehicle. It is recommended to start at 50%

You can select the size that an object needs to be before it is recognised in your image. Select a Minimum and Maximum Width and Minimum and Maximum Height between 0% and 100% of the image.

Enable	Min Width	Max Width	Min Height	Max Height
<input checked="" type="checkbox"/>	10 %	50 %	10 %	90 %

1%

Width

100%



100%

The above image shows the minimum and maximum size an object could be to be detected based on

Min width 10% - Min Height 10%

Max width 50% - Max Height 90%

So any object between the 2 green boxes should be read.

**Relearn Background:** Select this once you have changed settings.

- **Fault Finding**

- **If objects are not being recognized**

Check you have the correct Detection Type set

Adjust your confidence rate.

Try changing the min and max object sizes.

Avoid the top and corners of the image to detect objects.

The cameras generally perform best if the target is within 15 meters of the camera.

