

Hi Everyone.

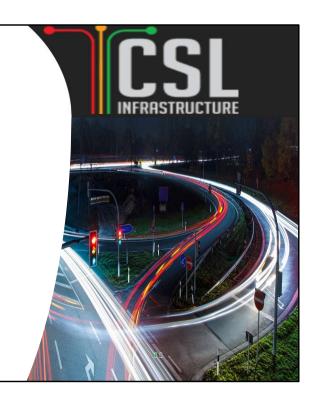
I was asked to give a quick talk on the basics of setting up a Flir camera.

In saying that I don't want to bore you with all the details in the manual, because as we all know all technicians read the manual from cover to cover before they install any product.

We will however touch on a few of the key points

Basic FLIR Setup and Configuration

- 1. Choosing the Correct Device and Lens
- 2. Calibration
- 3. Zone Setup
- 4. Application and Output Assignments
- 5. Installation basics



Choosing the Correct Device



TrafiOne

An entry level, thermal camera capable of detecting bicycles and pedestrians in all lighting and weather conditions. This is the preferred choice for pedestrian crossings where traffic is not the main focus of detection.



TrafiCam AI

A visible light camera primarily used for vehicle detection. It excels in applications with multiple lanes and dense traffic.

It is NOT THE PREFERRED METHOD to detect bicycles and pedestrians.

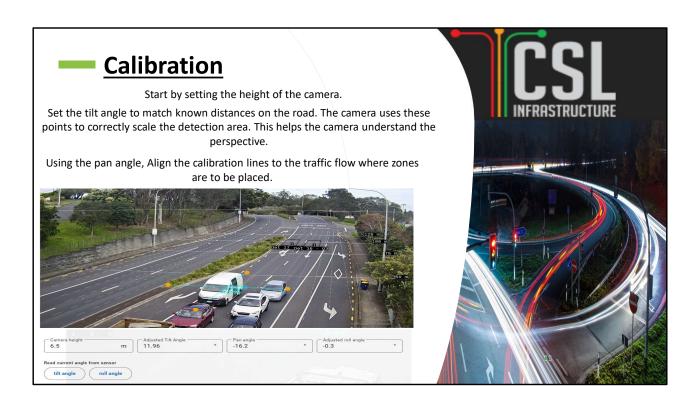


ThermiCam AI

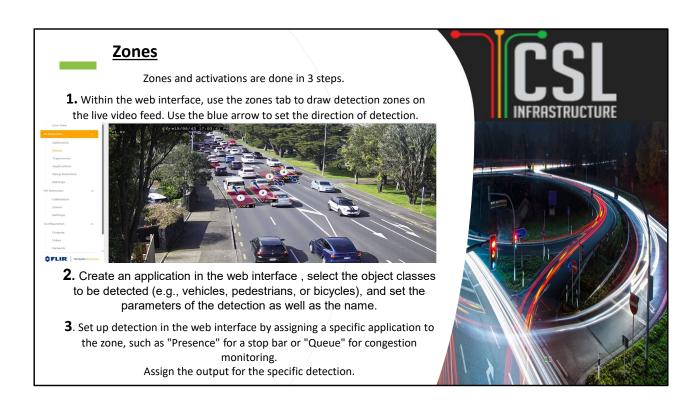
A thermal camera capable of detecting vehicles, bicycles, and pedestrians in all lighting and weather conditions. This is the correct choice for applications requiring 24/7 detection regardless of ambient light.



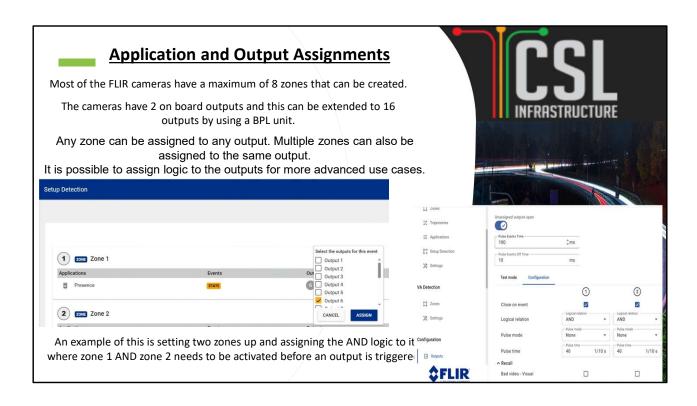
Let's start by choosing the correct device for the project.
There are 3 main models to choose from.



After installation it is essential to calibrate the sensors for reliable detection.



Next, we move to adding zones. With the AI range of products, we do detection setup slightly different.

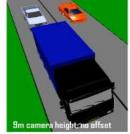


Installation basics

The placement of sensors are crucial to effective detection.

be aware of optical occlusion!

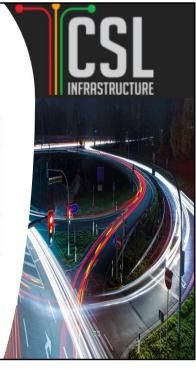


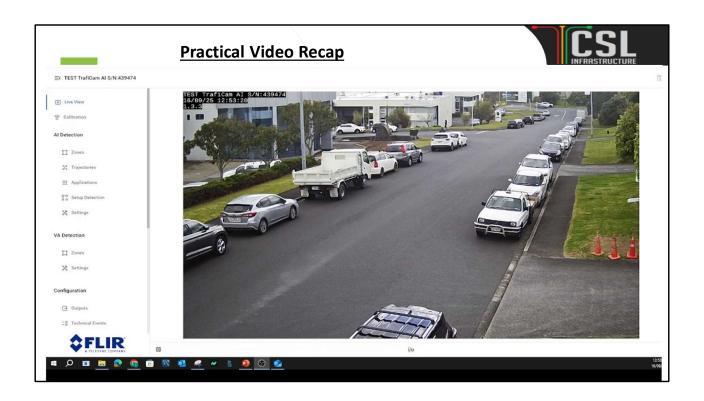




- on the same lane
- on adjacent lanes

By knowing the limitations an ability of the sensors , we can choose the correct installation location at time of design.





That was enough of the boring stuff, I'm sure you would much rather see it done in real life, so lets go through an actual setup following the steps we discussed.

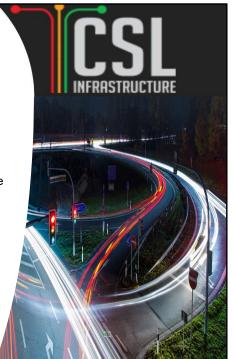
Closing thoughts

It is essential, at the design phase of your project, that you have a clear plan for your detection zones and which applications they will serve (e.g., presence, queue, or counting)

Know Your Limits: Effective detection is up to 25m from the camera. This can be extended by using a narrow angle lens option if needed.

The FLIR range has a maximum of eight zones, but you can assign a single application to multiple zones or a single zone to multiple applications for maximum flexibility.

Don't Forget the Outputs: Remember that the cameras have two onboard outputs, these can be extended to 16 outputs with a BPL3 unit, and any zone can be assigned to any output.



Thank you

