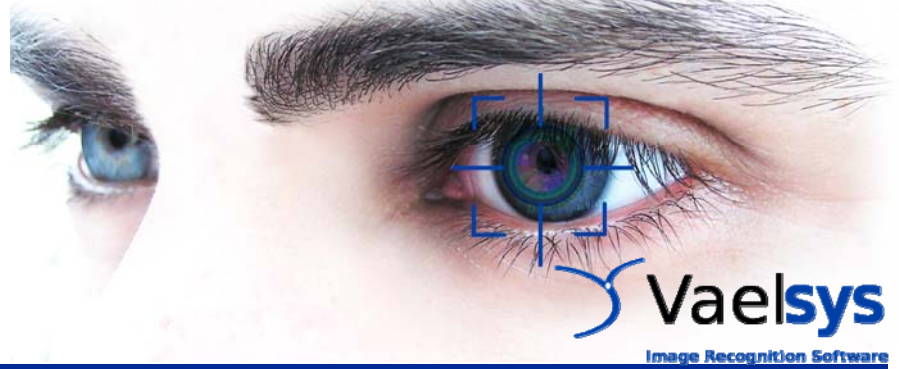


ViX Counter-C



Vaelsys
Image Recognition Software

Counter-C is an easy to use application designed for people counting using ceiling mounted cameras. Counter-C runs embedded in network cameras compatible with Axis Camera Applications Platform (ACAP) providing in real time the number of people walking under the camera in one direction or the opposite. The information can be seen in the camera interface, using Vaelsys Vistat application or integrated in a third party software.

Key Features:

- Embedded application requiring no additional hardware
- Simple set and configuration
- Counting area description
- Bi directional counting (counts people going in one direction and the opposite)

Installation recommendations:

- Camera Height: 3 – 5 meters
- Camera angle: Overhead
- Avoid areas with shadows
- No moving elements in sight (ex: doors)

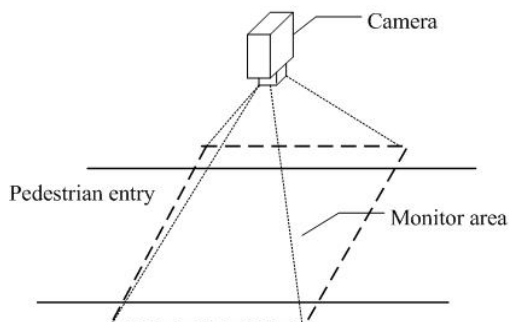
Requirements :

- Axis Camera Application Platform. (ACAP)
- Web Browser compatible with ACAP

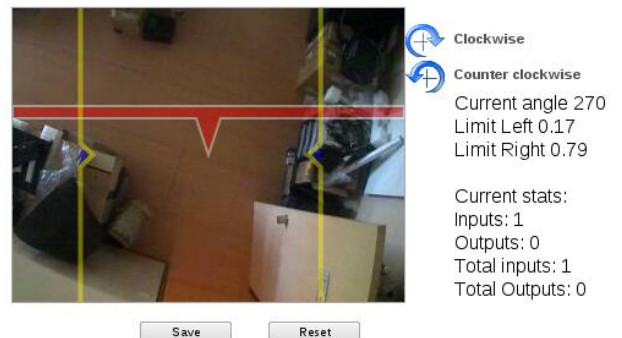
Accuracy, up to 95% for indoor ceiling mounted cameras that meet installation recommendations.

Integración:

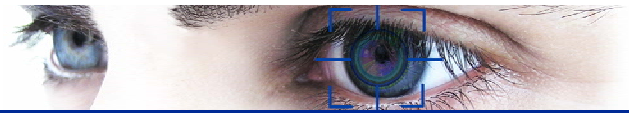
- Vaelsys Vistat
- Third party software via XML messaging



Monitoring area should be wide enough
Covering 6 square meters works fine.



Direction is defined using a crossing line (red)
Entry is better defined with the yellow lines.



Benefits:

- Know how many people get in or out of your office, shop, bank, gas station etc.
- No extra hardware is required. Counting is performed in the camera
- Cost efficient solution
- Bandwidth optimisation. Analytics on the edge makes a better use of bandwidth since you don't need to stream video to get the counting information. Just a few KB per hour.
- Plug & Play , most installation don't require any configuration
- Easy to integrate with third party software to build more complex solutions
- Control capacity (this operation is done by other applications integrating the data provided by Counter-c)

How does it work ?

1. Place the camera with VIX Counter-C installed directly overhead the area you wish to control.
2. ViX Counter-C can automatically configure itself by learning the average mass of a person. This operation is calculated using the first people getting in and out (10 to 20 people). It's important to let just one person in or out during this calibration process.
3. Be sure that sense and direction are properly set using the line configuration tool integrated in the camera. You can check accuracy with the embedded counter included.
4. Every time a person crosses the red line, the system determines if it's considered an input or output. The information is stored in the camera and can be sent to other systems.

Applications:

Counter-c is a simple but powerful tool to get a better understanding of what happens in your business. With the information provided by Counter-C you will be able to analyse key information, for example:

- Which day / week / month is the busiest ?
- Which shop get more traffic ? And then compare it with sales.
- What time is busier?
- How many people do I have in the store on average?
- When do I have more than x people inside the shop ?

In order to get more out of Counter-C we recommend Vaelsys Vistat (store data, show graphs, compare days, combine counters for places with multiple entries etc.)

About accuracy:

In optimal conditions accuracy is above 95%. However you should be aware that:

- Shadows and moving objects (like doors opening in the scene) may damage the accuracy
- Doors with several people entering at the same time usually get an accuracy of 80%
- Trolleys and baby carriages may take down accuracy to 80% or 85%