



Milesight Video Content Analysis

NDAA Compliant Products

Value-added function Caters for All of your needs

A Milesight Technology Moment

Milesight NDAA Compliant Product List

Milesight Technology is pleased to affirm that our -PA series and -PD series product portfolio is NDAA (National Defense Authorization Act) compliant. These products do not use or deploy critical components including SoCs produced by NDAA banned component vendors. They are recommended for enterprises and critical applications where compliance is essential, such as government, defense, campuses, retails and a range of commercial applications subject to the NDAA.

Regional People Counting

High accuracy and real-time regional people counting based on AI algorithm, with statistic reports for further analysis, helps to make fast decisions on security management and increase the operational efficiency of the business



Introduction

The rapid development of security industry calls for the need of a more intelligent video monitoring. For the reason that a massive amount of video is being recorded, but hardly ever being reviewed, it is ordinary to miss suspicious behaviors. To avoid such events and activities being missed, Milesight propounds intelligent Milesight Video Content Analysis (VCA), an embedded application for the whole Milesight Network Camera series.

What is Video Content Analysis?

Video Content Analysis (VCA), also referred to Intelligent Video Analysis (IVA), is the capability of automatically analyzing video to detect and determine temporal and spatial events. The algorithms can be implemented as software on general purpose machines or as hardware in specialized video processing units. It automatically performs an analysis of captured video, and automatically uses the resultant data. This technical capability is used in a wide range of fields including entertainment, health-care, retail, automotive, transport, home automation, safety and security.

Milesight Video Content Analysis

Milesight VCA provides advanced, accurate smart video analysis for Milesight network cameras. It enhances the performance of network cameras through 10 detection modes, enabling the comprehensive surveillance function and quicker response of cameras to different monitoring scenes.



Region Entrance



Region Exiting



Advanced Motion Detection



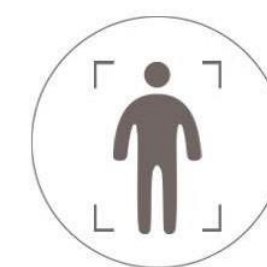
Tamper Detection



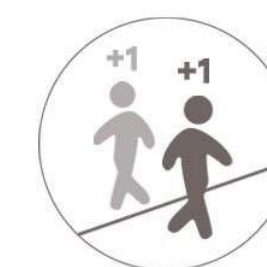
Line Crossing



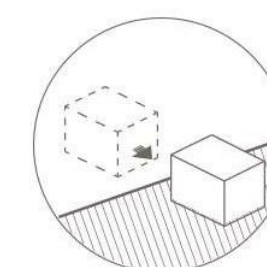
Loitering



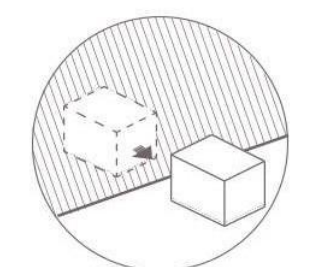
Human Detection



People Counting



Object Left



Object Removed

1. Region Entrance

What is Region Entrance

Region Entrance helps to protect a special area from potential threat of suspicious person's or object's entrance. An alarm will be triggered when objects enter the selected regions by enabling region entrance.

Enable Region Entrance Detection:

Object Size:

Set Entrance Detection Region

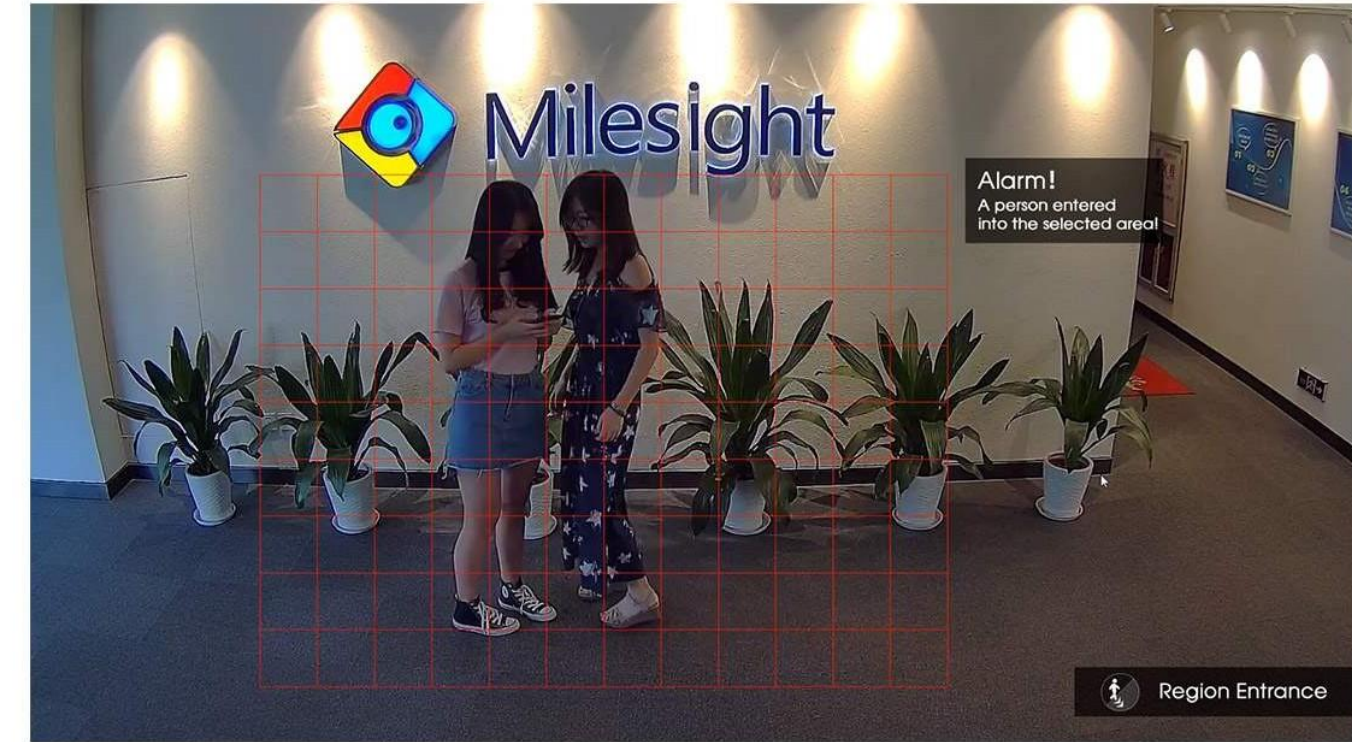


Select All Clear All

(Please draw the screen for setting!)

How to set Region Entrance

Enable region entrance detection and draw a region by clicking the mouse. Any object enters into the region will trigger an alarm. The "Object Size" can be set to define whether an object is big enough for triggering the alarm when enter into the selected region.



2. Region Exiting

What is Region Exiting

Region Exiting is to make sure that any person or object won't exit the area that is being monitored. Any exiting of people or objects will trigger an alarm.



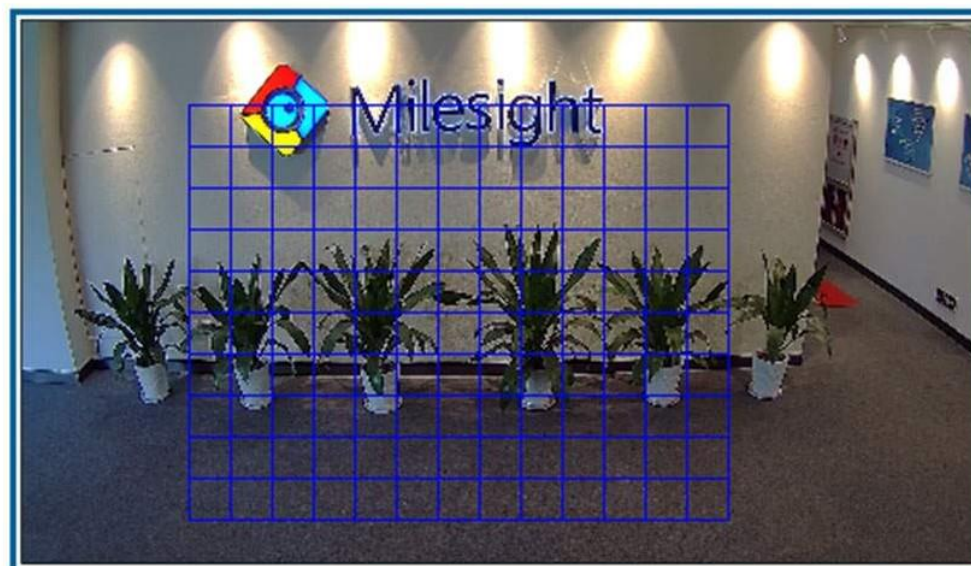
How to set Region Exiting

Enable region exiting detection and draw a region by clicking the mouse. Any object which exits the region will trigger an alarm. The "Object Size" can be set to define whether an object is big enough for triggering the alarm when exit the selected region.

Enable Region Exiting Detection:

Object Size:

Set Exiting Detection Region



Select All Clear All

(Please draw the screen for setting!)

3. Advanced Motion Detection

What is Advanced Motion Detection

Different from traditional motion detection, Milesight Advanced Motion Detection is a really intelligent one which can filter out "noise" such as lighting changes, natural tree movements, etc. When an object moves in the selected area, it will trigger an alarm.



Enable Advanced Motion Detection:

Sensitivity:

Set Advanced Motion Detection Region



Select All Clear All

(Please draw the screen for setting!)

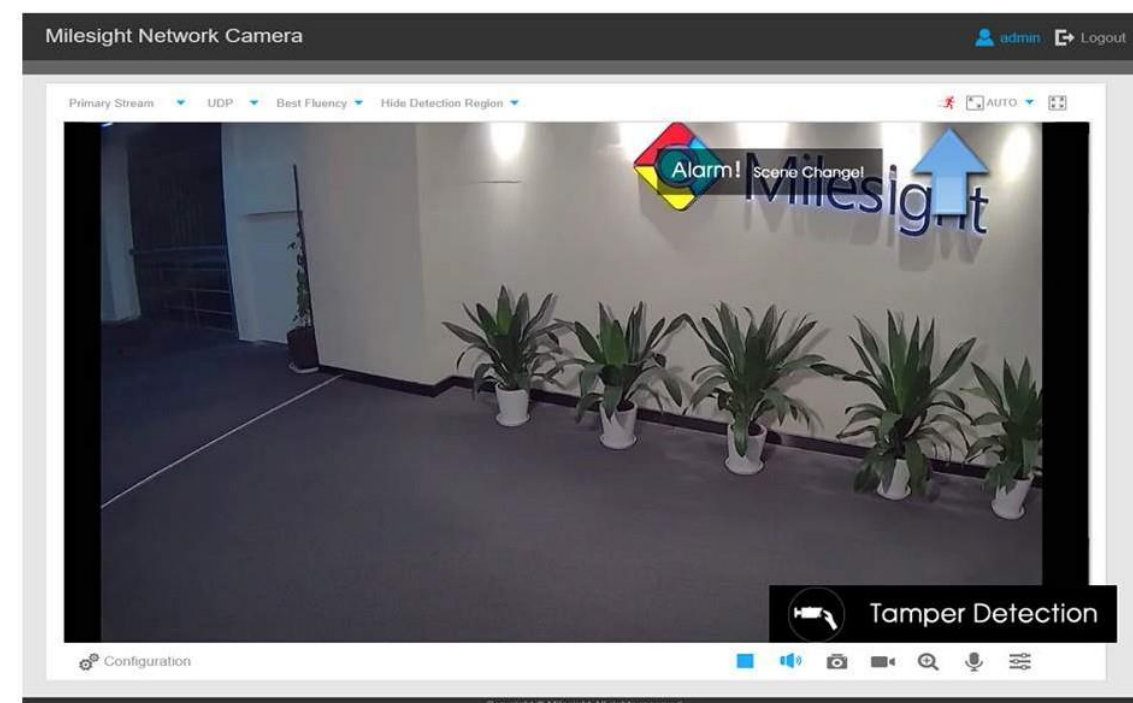
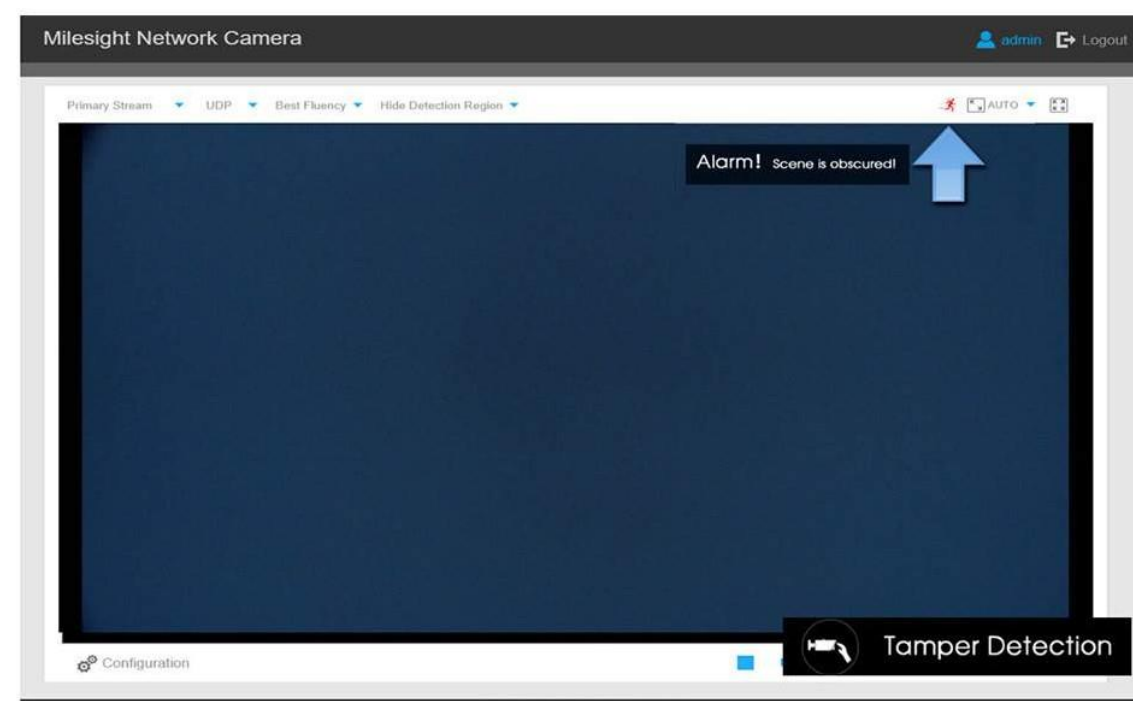
How to set Advanced Motion Detection

Enable advanced motion detection and draw a region by clicking the mouse. The sensitivity can be configured to detect various movement according to different requirements. When the level of sensitivity is low, slight movement won't trigger the alarm.

4. Tamper Detection

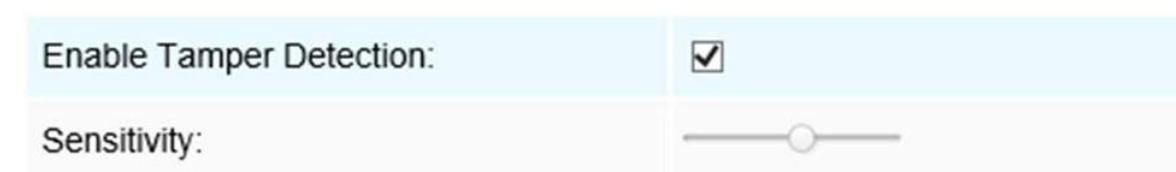
What is Tamper Detection

Tamper Detection is used to detect possible tampering like the camera being obstructed or moved. This functionality alerts security staff immediately when any above-mentioned actions occur.



How to set Tamper Detection

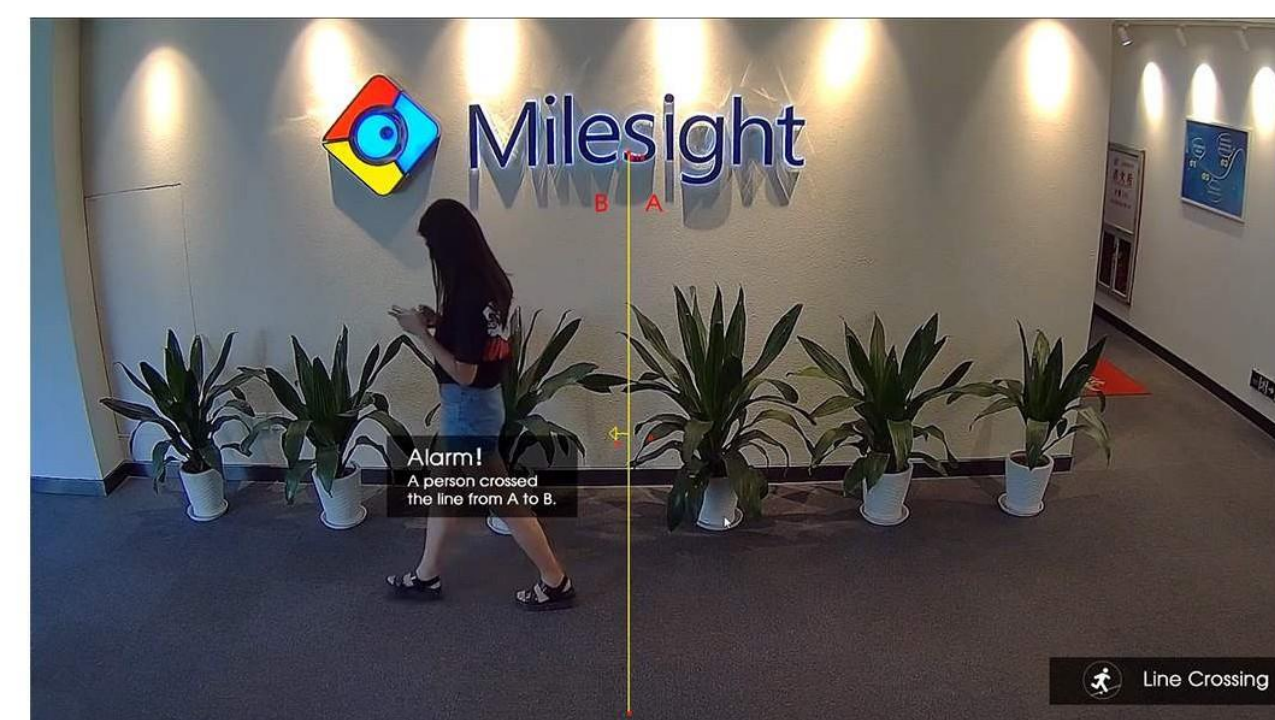
Enable tamper detection. According to the sensitivity, alarm will be triggered when disrupted camera operations happen.



5. Line Crossing

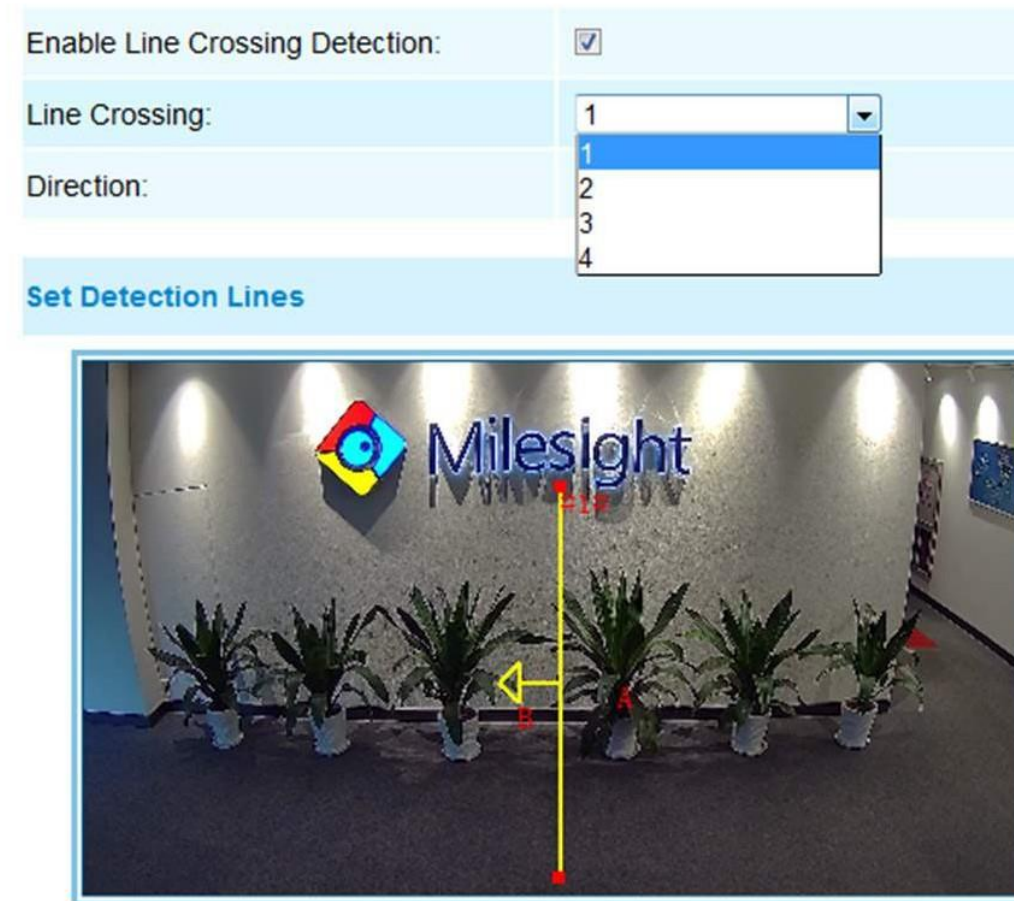
What is Line Crossing

Line Crossing is designed to work in most indoor and outdoor environment. An event will be triggered every time when the camera detects objects crossing a defined virtual line. It is especially suitable for general monitoring of entrance and exit points in low-traffic areas, detecting objects that cross the defined virtual line.

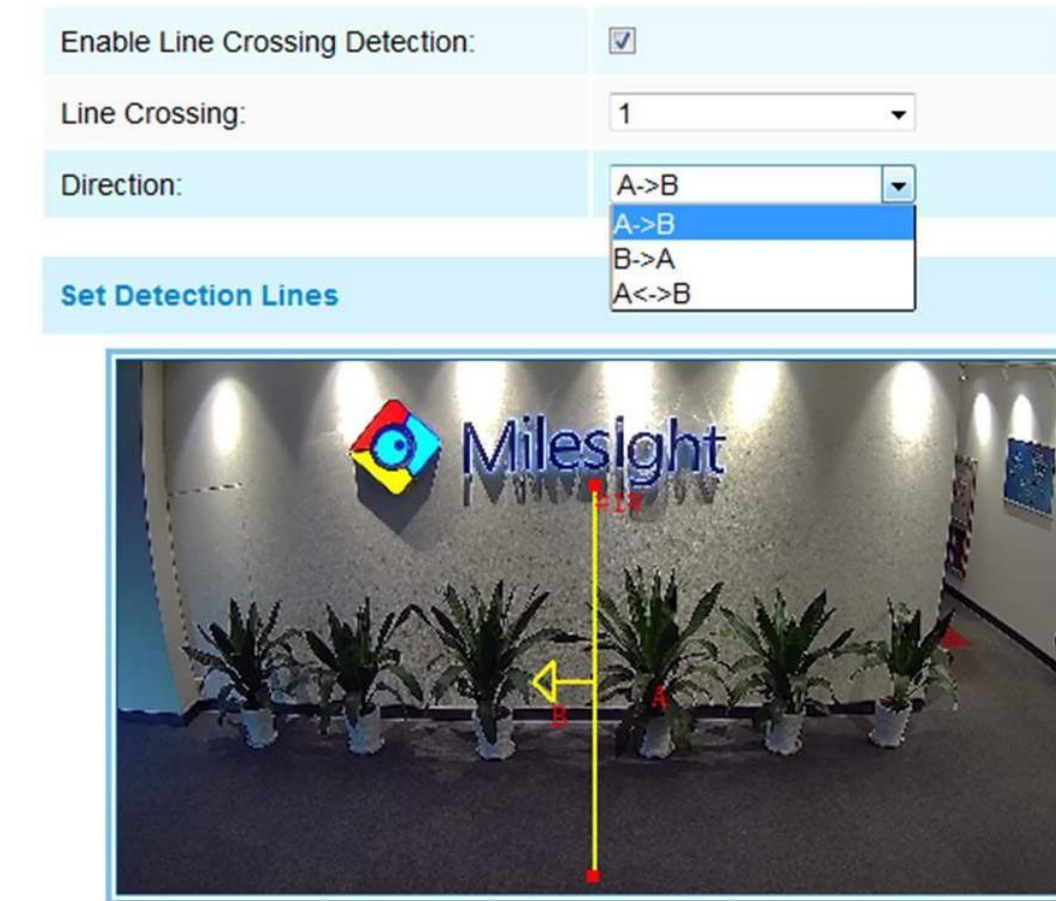


How to set Line Crossing

Enable line crossing detection. Click the mouse to draw a line in the monitoring view. Milesight allows to set up to four lines at a time. There are three direction modes to choose for triggering alarm. "A→B" means when there is any object crossing the line from the "A" side to the "B" side, the alarm will be triggered. "B→A" vice versa. "A↔B" means that the alarm will be triggered when objects cross line from either side.



(Please draw the screen for setting!)



(Please draw the screen for setting!)

6. Loitering

What is Loitering

When objects are loitering in a defined area for a specific period of time, it would trigger an alarm. Illegal activities towards the places like retail stores and banks would be nipped in the bud thanks to this function.



How to set Loitering

Enable loitering detection and draw an area in the view. After setting minimum loitering time from 3s to 300s, any object loiters in the selected area over the minimum loitering time will trigger the alarm. Also Milesight loitering allows to set "Object Size". Only the object bigger than the set size will trigger the alarm.

Enable Loitering Detection:	<input checked="" type="checkbox"/>
Min. Loitering Time:	<input type="text" value="4"/> s
Object Size:	<input type="range"/>

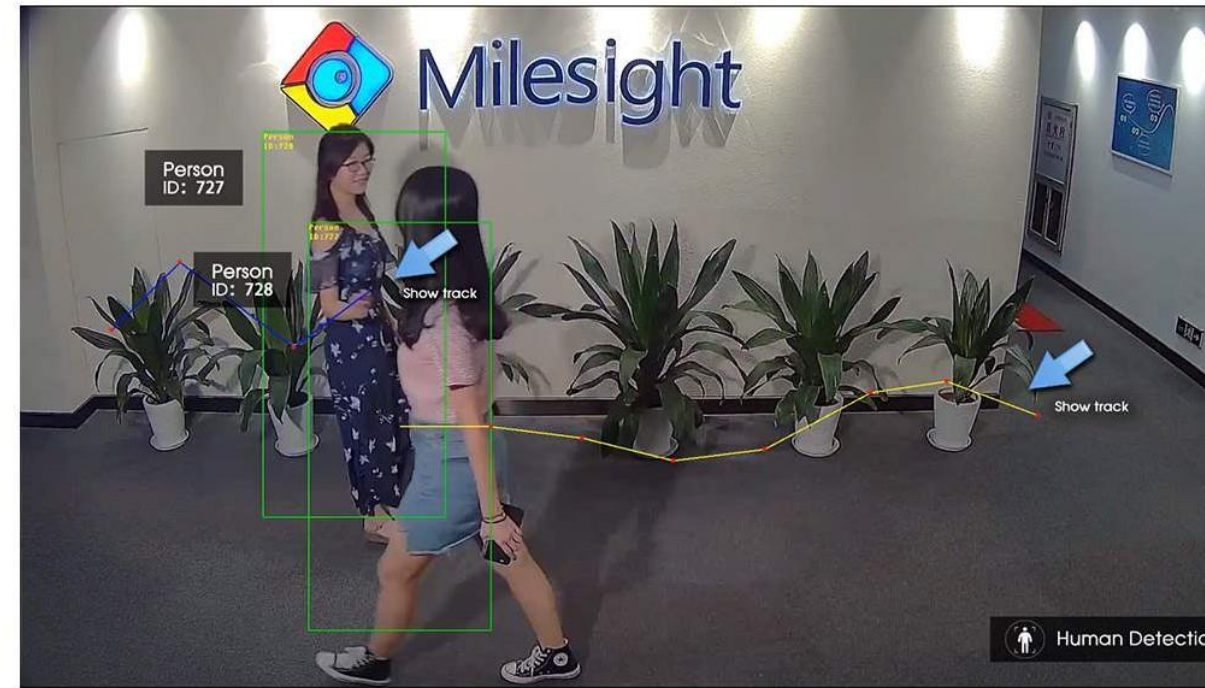
Set Loitering Detection Region



Select All Clear All

(Please draw the screen for setting!)

7. Human Detection



What is Human Detection

Human Detection is used for figuring out whether an object is a human or not. When human detection is enabled, the camera will figure out objects automatically and it can trigger an alarm when needed.

Enable Human Detection:	<input checked="" type="checkbox"/>
Show Tracks:	<input checked="" type="checkbox"/>

Human Detection



Schedule Settings

How to set Human Detection

Enable human detection. When there is an object appearing in the detecting area, an ID will show on the frame. If the object is a person, it will mark as "person". When the Show Tracks is enabled, the tracks of the moving object will show on the screen.

8. People Counting

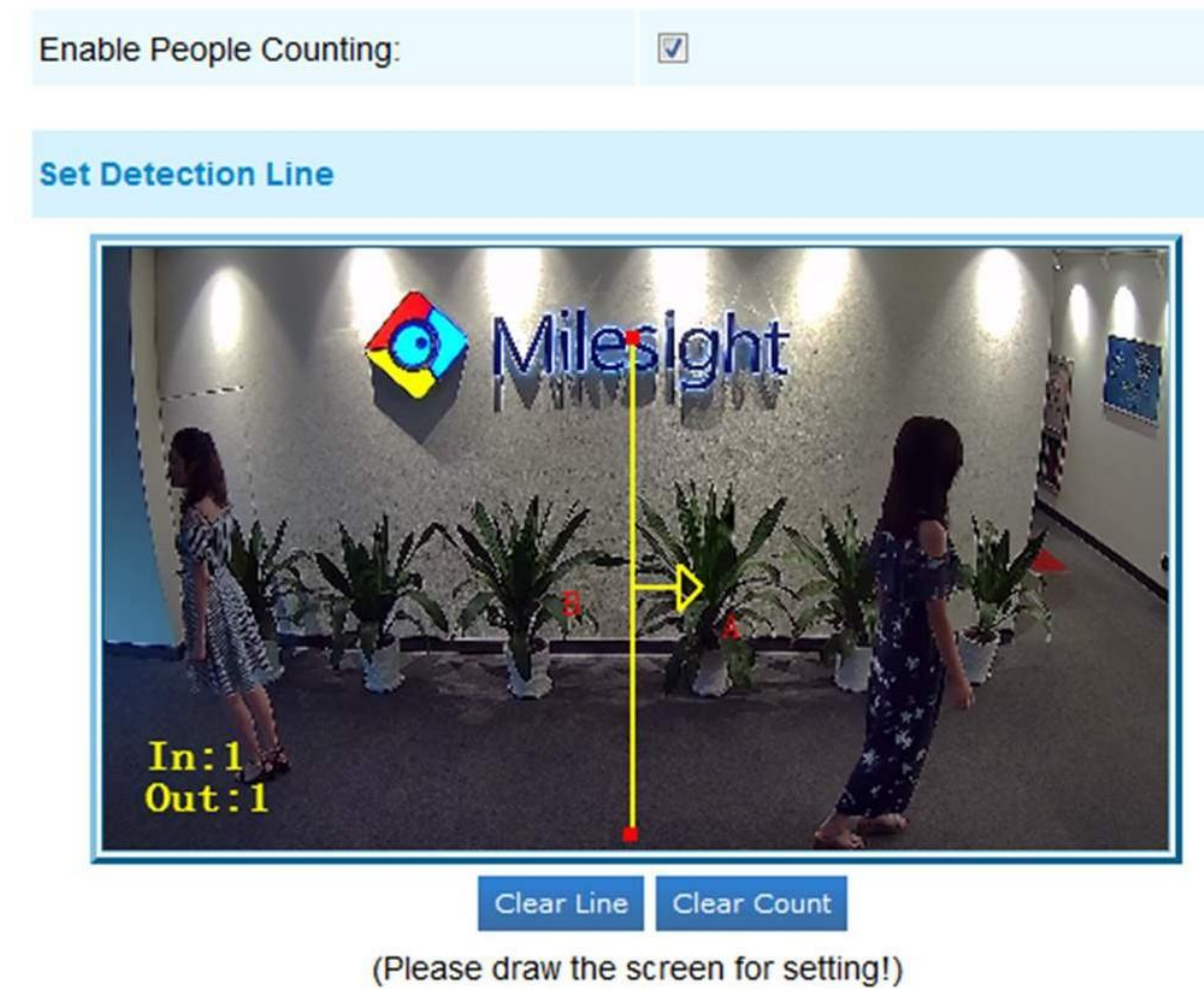
What is People Counting

People Counting is able to count that how many people enter or exit during the setting period, which can therefore serve multiple purposes - for business intelligence purposes helping retailers to count how many customers came in a day.



How to set People Counting

To enable people counting needs to enable human detection first. It records the number of people passing through the line automatically. Crossing along the direction of the arrow will record as "In". On the contrary, it will record as "Out".



Also, Milesight people counting allows to trigger alarm when the thresholds reaches to a certain value. The value ranges from 1 to 9999.

Alarm Trigger	
Enable Alarm	<input checked="" type="checkbox"/>
Thresholds:	<input type="checkbox"/> In: <input type="text" value="9999"/>
	<input type="checkbox"/> Out: <input type="text" value="9999"/>
	<input type="checkbox"/> Capacity: <input type="text" value="9999"/>
	<input type="checkbox"/> Sum: <input type="text" value="9999"/>

9. Object Left

What is Object Left

Object Left is used for checking whether there is something left in the selected area. If there is object left in the pre-defined area, an alarm will trigger.



How to set Object Left

Enable object left detection and draw a region by clicking the mouse. Any object left in the region will trigger an alarm.

Background:	<input type="button" value="relearn"/>
Enable Object Left:	<input checked="" type="checkbox"/>
Enable Object Removed:	<input type="checkbox"/>

Set Detection Region



Note: Please draw the screen for setting!

10. Object Removed

What is Object Removed

Object Removed is used to secure objects' safety. When there is an object removed from a pre-defined region, it will detect and prompt an alarm.



How to set Object Removed

Enable object removed detection and draw a region by clicking the mouse. Any object removed in the region will trigger an alarm.

Background:	relearn
Enable Object Left:	<input type="checkbox"/>
Enable Object Removed:	<input checked="" type="checkbox"/>

Set Detection Region



Select All Clear All


Note: Please draw the screen for setting!

Note

Milesight VCA provides the primary setting for the whole VCA functions. “Minimum Size” is to set whether an object is big enough to trigger other settings. the frame drawn on the screen means that only if the object size is bigger than the frame, the settings for other VCA functions will take effect. Maximum Size means opposite. The frame drawn on the screen stands for that only if the object size is smaller than the frame, the settings for other VCA functions will take effect.


Process FPS:	15fps	Process FPS:	15fps
Scenario Mode:	Indoor	Scenario Mode:	Indoor
Camera Installation:	Angle View	Camera Installation:	Angle View
Analysis Type:	Standard	Analysis Type:	Standard
License:	5z6d99wDU9qGdGWZZf	License:	5z6d99wDU9qGdGWZZf
License Status:	Valid	License Status:	Valid

Set Object Size Limits



Minimum Size Maximum Size
(Please draw the screen for setting!)

Set Object Size Limits



Minimum Size Maximum Size
(Please draw the screen for setting!)

To better use Milesight VCA, the viewing angle of the camera really matters. It is important to install the camera in a suitable position to fully apply these smart detections such as human detection and people counting.

Advantages of Milesight Video Content Analysis

- Detect suspicious activities immediately
- Provide pro-active operation
- Reduce workload for the staff
- Automatically analyze surveillance video in real-time

Conclusion

Milesight VCA embedded in Milesight Network Cameras ensures that video surveillance systems become smarter, more accurate, and more cost-effective. Through the functions, the operator can predefine situation detection which reduce a lot of workload. And the intelligent monitoring application is general as well as specialized for different industries, creating new end user benefits and opening up new business possibilities.



About Milesight

Milesight, established in 2011, is a high-tech company specializing in the design and manufacture of best-in-class IP surveillance solutions with superior image quality, exceptional flexibility and reliability for the global market. Milesight markets its products through a worldwide network of distributors and resellers, offering excellent pre/after-sales and technical support services that exceed customers' expectation.

For more information about Milesight, please visit our website www.milesight.com.

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