

Merit LILIN Application Note for iMEGAPRO Intelligent Video Surveillance

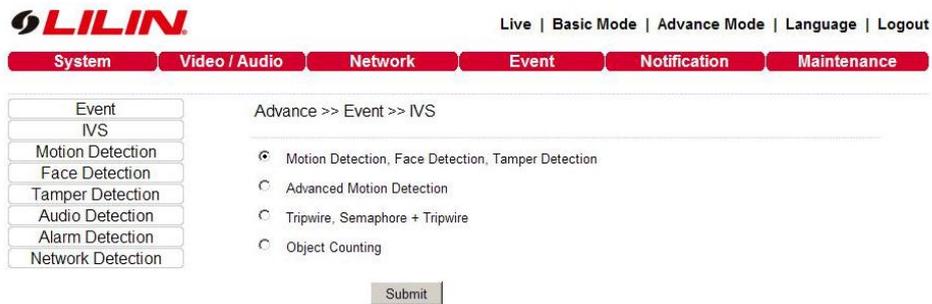
Document Number : A00026

Date : 2014/09/19

Dept: Technical Support, Taipei

Subject: This document describes the usage of iMEGAPRO series with IVS option.

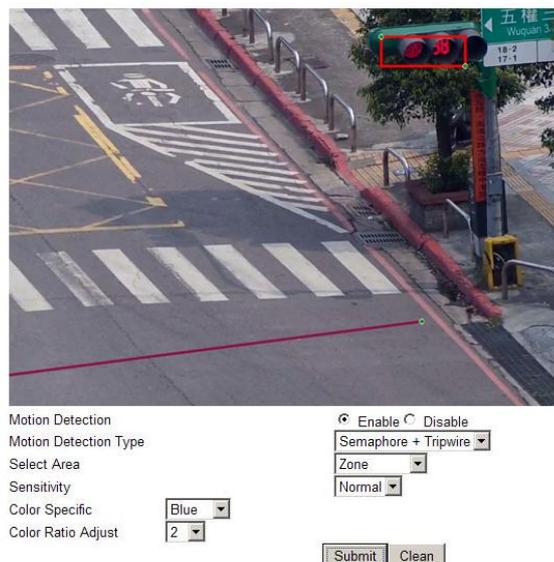
Description: LILIN iMEGAPRO range of cameras have built-in detection engines for the tamper detection, face detection, motion, and audio detection. iMEGAPRO IVS cameras with intelligent video surveillance (IVS) option can now support more IVS features such as semaphore + tripwire detection (traffic light crossing), tripwire, object counting, advance motion detection, and polygonal fences.



Semaphore + Tripwire

To use color detection for the traffic light crossing, select “Setup->Motion Detection” from the main web page of the camera and follow the steps below:

1. Select “Semaphore+Tripwire” for color detection.
2. Specify the color from red, yellow, green, or blue.
3. On the video ActiveX area, use the mouse to drag on the video for the color detection area.
4. On the video ActiveX area, use the mouse to drag on the video for the tripwire.



Click on “Submit” button. You are able to see the detection result from the video of the setting page or

the main web page.

If the color detected meets “Color Specific” and “Color Ratio Adjust”, a red box shows on the video for the color detected. At the same time, if any one of the fence types is detected for the color specific condition, the IP camera treats it as an alarm signal. Further, “Color Ratio Adjust” means color spectrum threshold. The lower value means purer color for the color spectrum that is required.

Tripwire

In the motion detection type selection drop down box, a user can select “Tripwire” for virtual fences. To do so, follow steps below:

1. Select “Tripwire” from motion detection drop down box.
2. Select “line”, “rectangle”, “polygon”, or “connection” from “Select Area” drop down box.
3. On the video ActiveX area, use a mouse to drag on the video for the virtual fences.

Live | Basic Mode | Advance Mode | Language | Logout

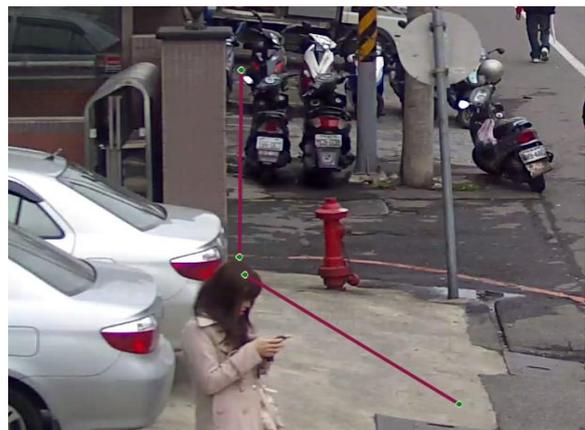
System Video / Audio Network Event Notification Maintenance

Event
IVS
Motion Detection
Audio Detection
Alarm Detection
Network Detection

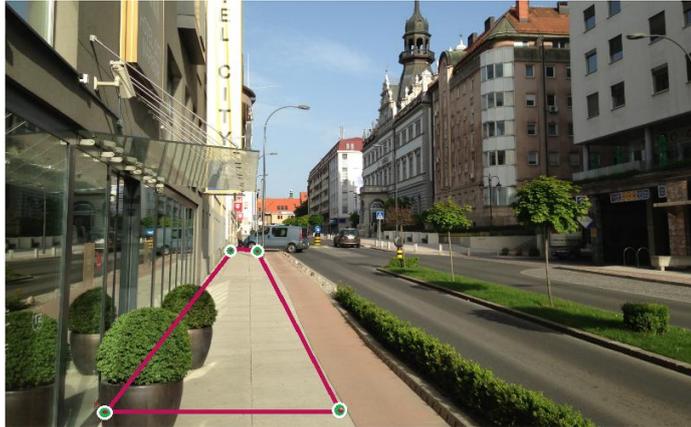
Advance >> Event >> Motion Detection

Motion Detection
Motion Detection Type
Select Area
Sensitivity

Enable Disable
Tripwire
Zone
Normal
Edit Clear

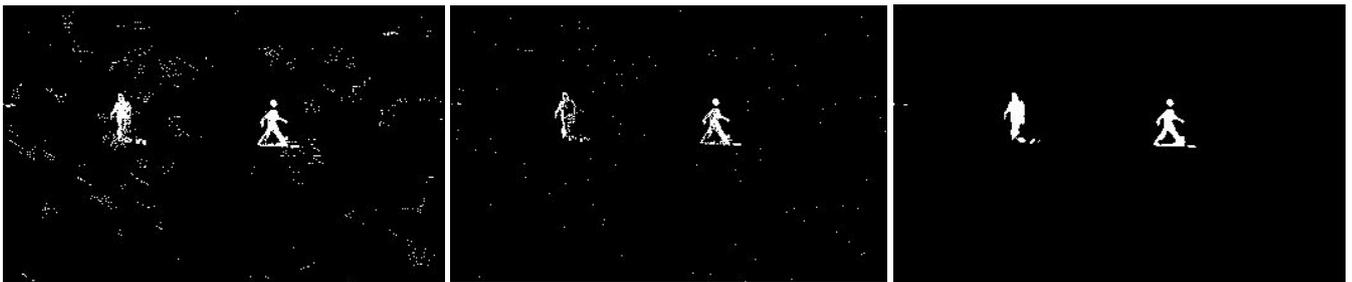


Click on “Submit” button. You are able to see the detection result from the video of the setting page or the main web page.



Advance Motion Detection/Edge Motion Detection

Traditional motion detection algorithm is done by comparing two pictures' color space, luma (Y) and chrominance (UV). The biggest disadvantage is that YUV motion detection might cause false alarms affected by light sources. For example, switching IR from color mode to black-n-white mode might cause the false alarms. In contrast, edge motion detection is a four-pass filter for separating motion objects which is more accurate motion detection algorithm.

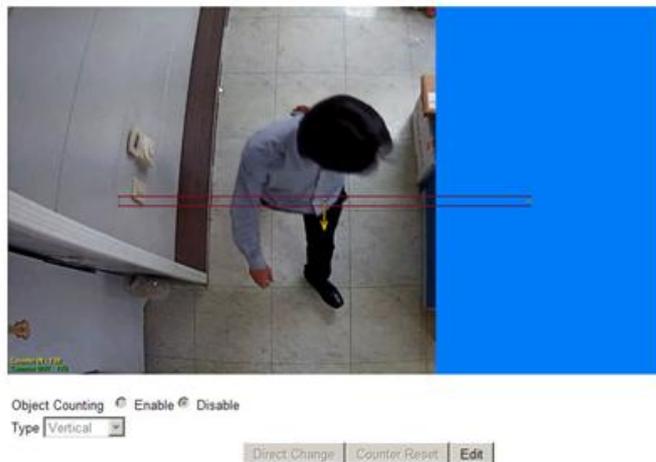


Object Counting

In IVS section, please enable Object Counting selection.

To setup object counting, please follow the followings:

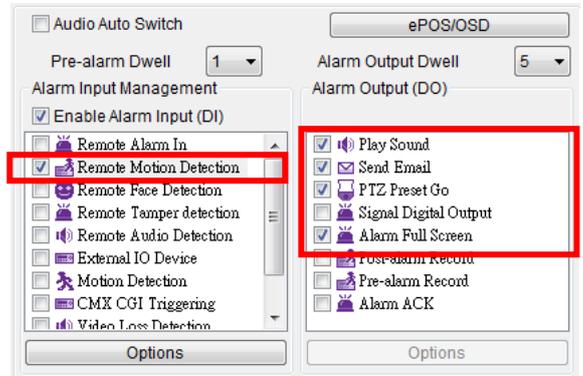
1. Click on the Edit button.
2. Setup vertical or horizontal detection for moving direction.





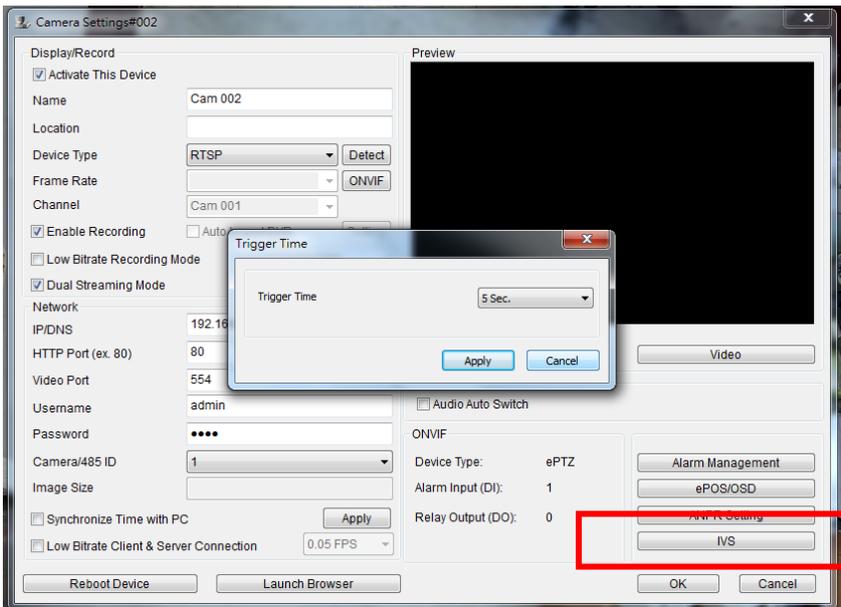
Alarm Output Management in CMX/NAV

To enable various alarm outputs, please click on camera Properties in CMX/NAV and enable “Remote Motion Detection” and select alarm outputs such as alarm email and/or alarm full screen option.

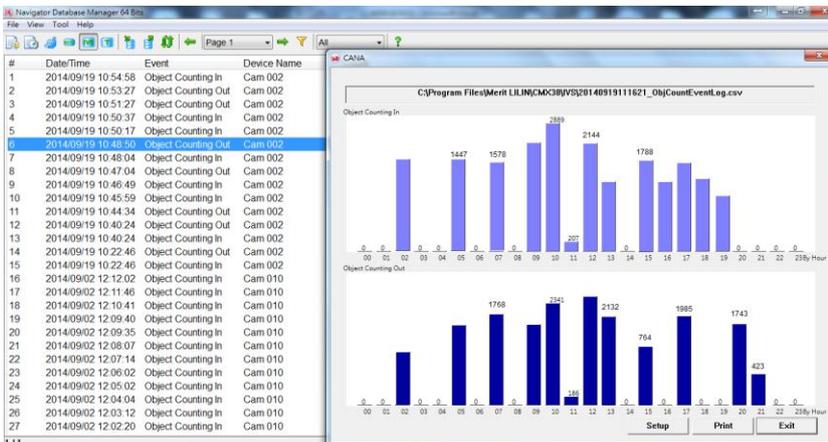


Object Counting in Navigator Enterprise

If the camera has IVS feature, camera settings of LILIN Navigator Enterprise can display IVS button. To enable people/object counting, please set Trigger Time to 5 seconds or higher.



Go to DatabaseManager and click on File->Statistics. You can get the object counting chart.





Alarm Output Management in NVR

To enable IVS on LILIN NVR, please enter Setup mode. Enable "Alarm->Motion Enable". The NVR is able to receive IVS alarm notifications from the camera.

For more information, contact fae@meritlilin.com.tw