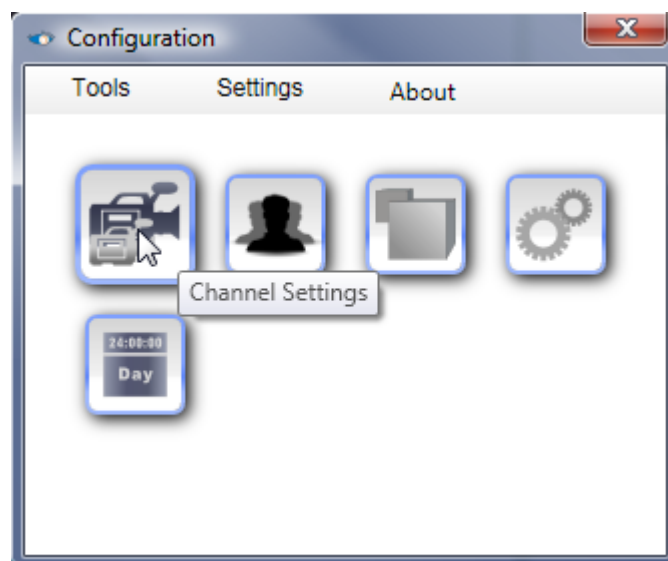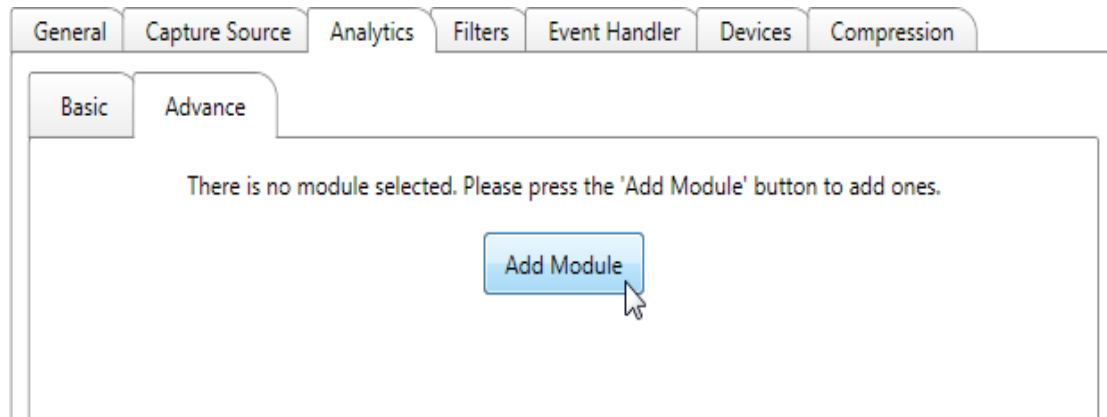# 1. Abandon Object Detector

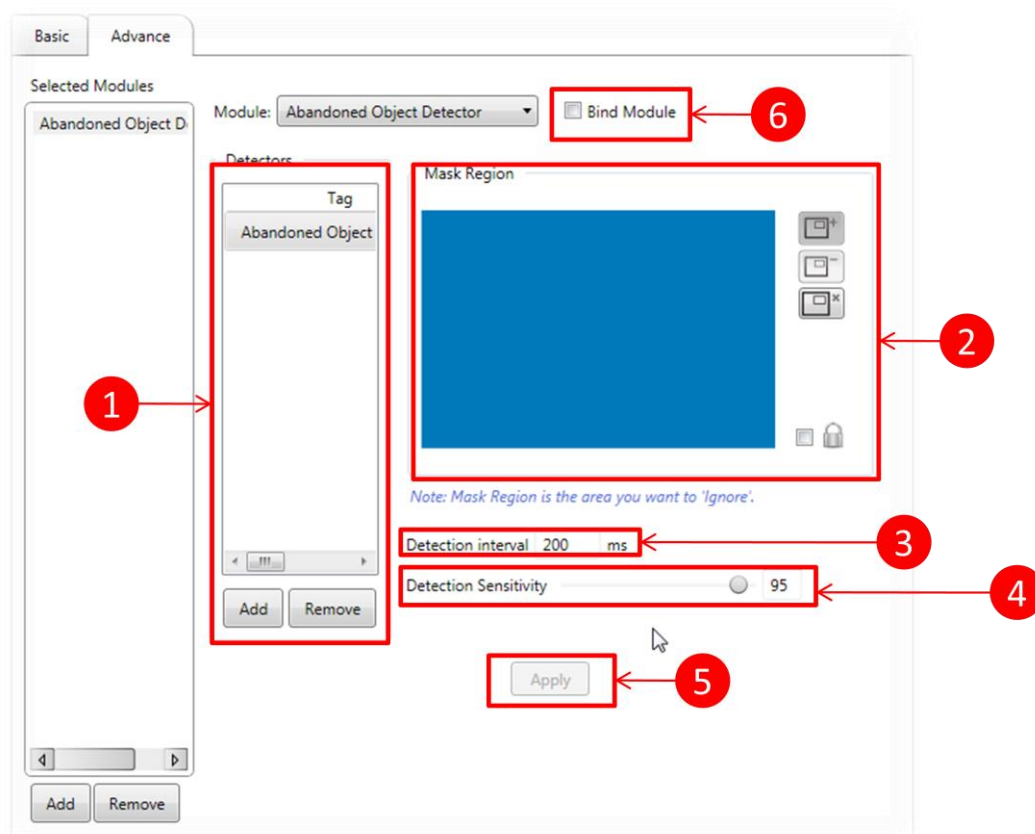This module provides an alarm when abandon object is detected in an area.

To add the module, open the "Setting Dialog" and select "Channel Settings":

Select the "Analytics" – "Advance" tab, and press the "Add Module" button

Choose the "Abandoned Object Detector" module, you should see the dialog as follow:

1) **Detectors**—here you can add/remove detector. There is no limit on the number of detectors within one channel. Each detector shall correspond to different settings respectively.

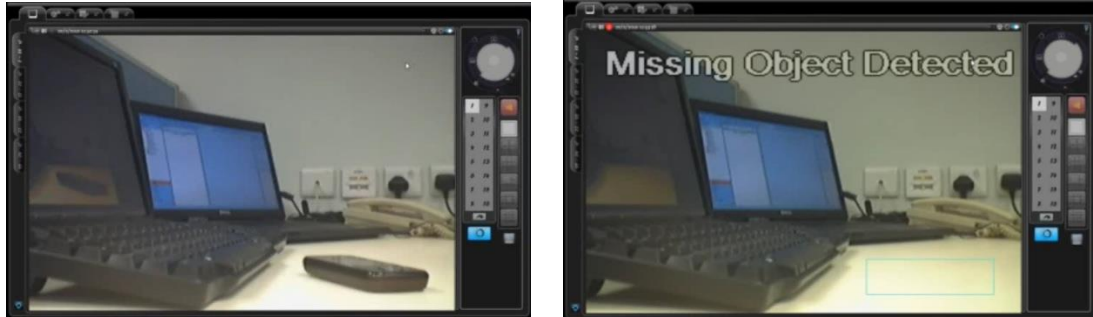2) **Mask region**—allow user to mask the region that want to ignore.

3) **Detection interval**— the interval between any 2 frames the tracker to process. Lower value would produce positive effect on accuracy but consumes more computation time.

4) **Detection Sensitivity**— to set the sensitivity to video content changes. Please note that this value should be properly set according to your environment. A high value does NOT mean to produce better result. Please refer to the following table:

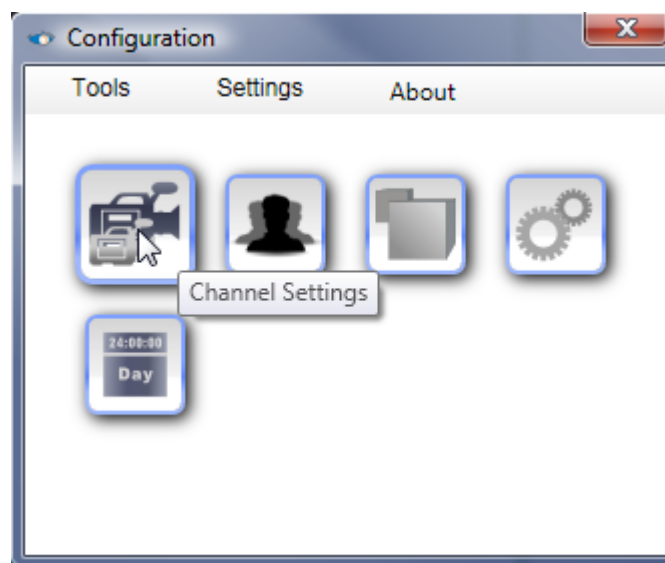| Sensitivity	Reaction	Alarm Trigger Threshold
5	Slow	15 ~ 20 min
50	Medium	6 ~ 8 min
95	Fast	3 ~ 5 min

5) **"Apply" button** – confirm changes by clicking this button.

6) **"Bind Module " checkbox**—to deploy the module on the channel.
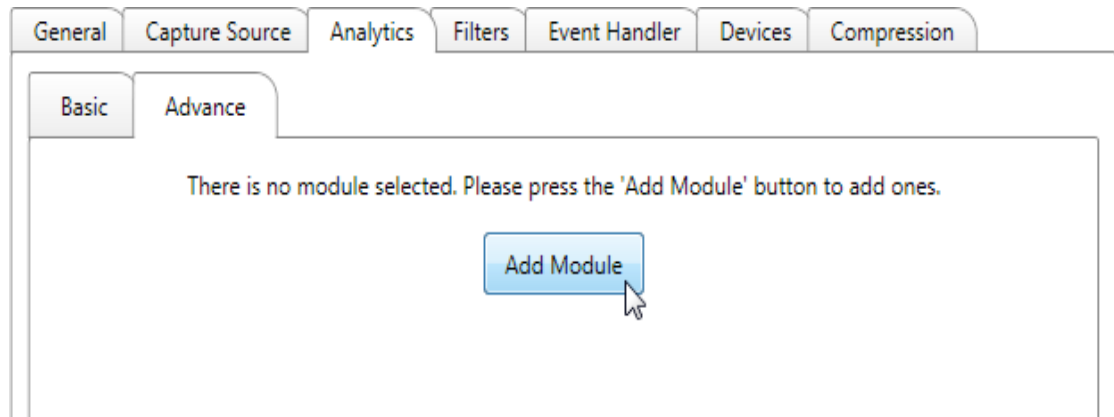
2. Missing Object Detector

This module provides an alarm when missing object(s) is detected in a selected area(s).
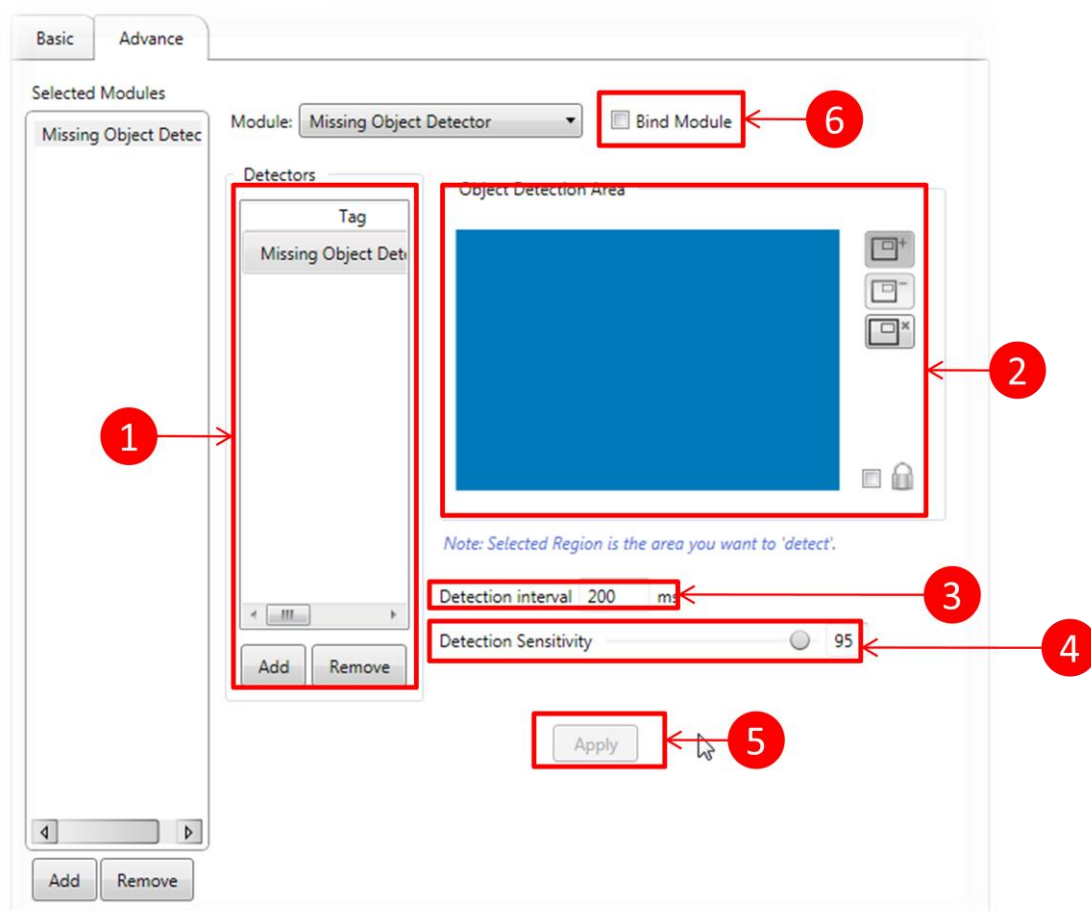

To add the module, open the "Setting Dialog" and select "Channel Settings":

Select the "Analytics" – "Advance" tab, and press the "Add Module" button

Choose the "Missing Object Detector" module, you should see the dialog as follow:

1) **Detectors**—here you can add/remove detector. There is no limit on the number of detectors within one channel. Each detector shall correspond to different

settings respectively.

2) **Mask region**—allow user to select the region that want to "**DETECT**".

3) **Detection interval**— the interval between any 2 frames the tracker to process. Lower value would produce positive effect on accuracy but consumes more computation time.

4) **Detection Sensitivity**— to set the sensitivity to video content changes. Please note that this value should be properly set according to your environment. A high value does NOT mean to produce better result. Please refer to the following table:

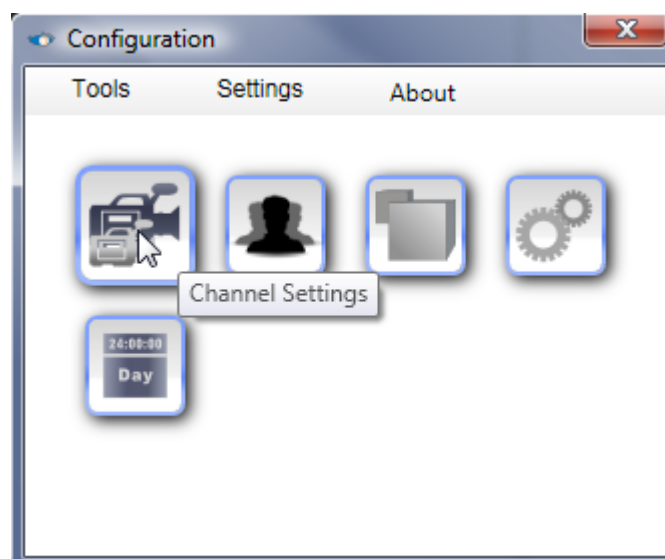| Sensitivity	Reaction	Alarm Trigger Threshold
5	Slow	15 ~ 20 min
50	Medium	6 ~ 8 min
95	Fast	3 ~ 5 min

5) **"Apply" button** – confirm changes by clicking this button.

6) **"Bind Module " checkbox**—to deploy the module on the channel.
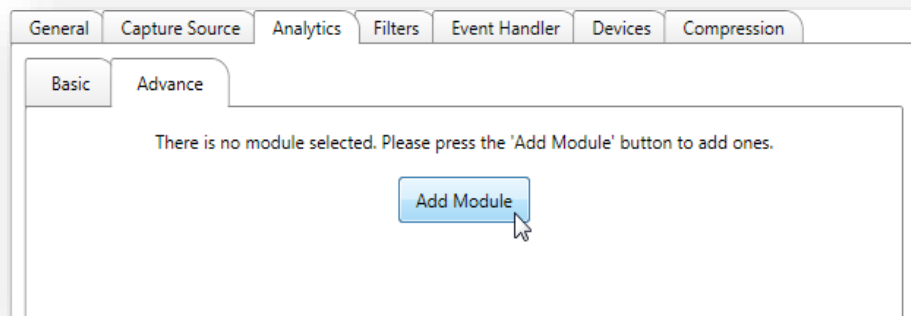
3. Camera Lost Focus Detector

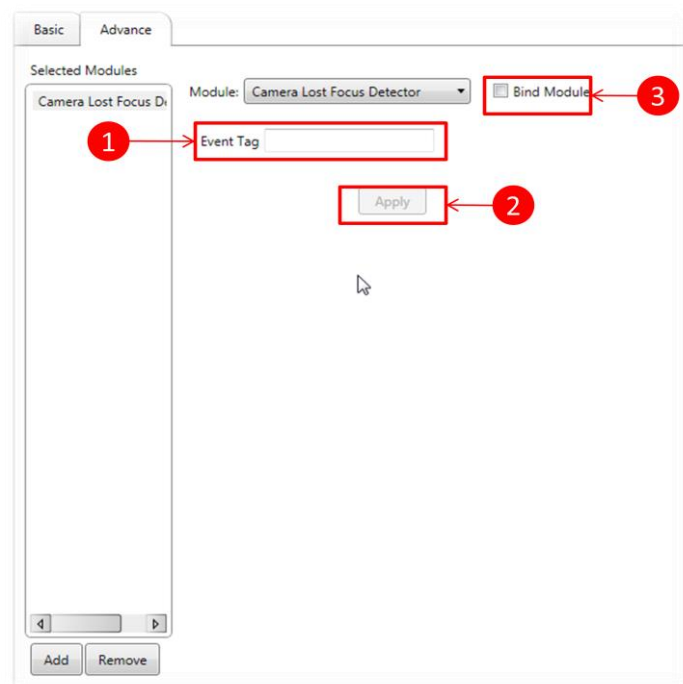This module provides alarm when the camera lost its focus.

To add the module, open the "Setting Dialog" and select "Channel Settings":

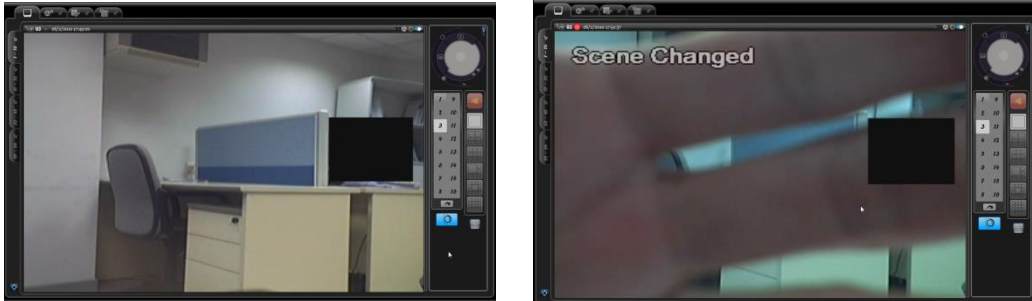Select the "Analytics" – "Advance" tab, and press the "Add Module" button

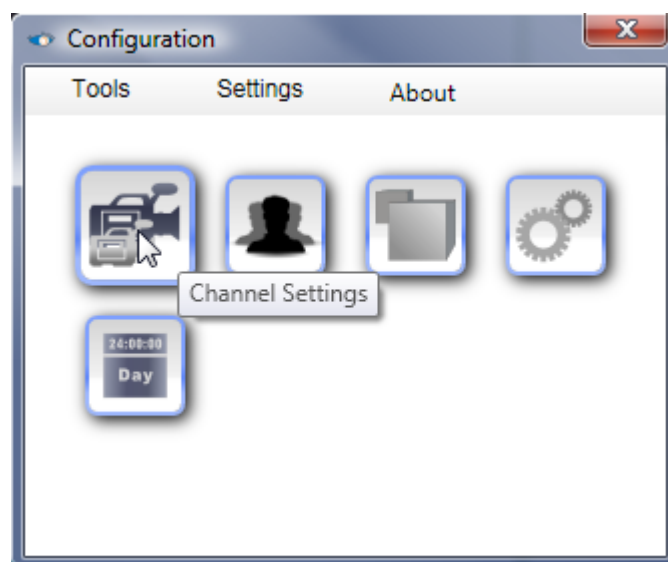Choose the "Camera Lost Focus Detector" module, you should see the dialog as follow:

1) **Event Tag**— here user can define the tag of the event.

2) **"Apply" button** – confirm changes by clicking this button.

3) **"Bind Module** " **checkbox**—to deploy the module on the channel.
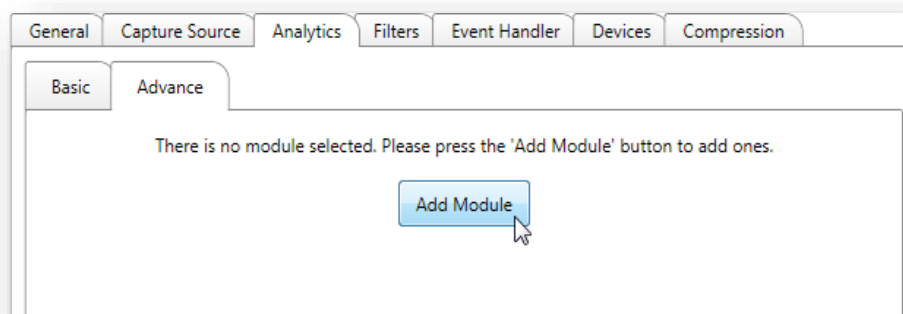
4. Scene Change Detector

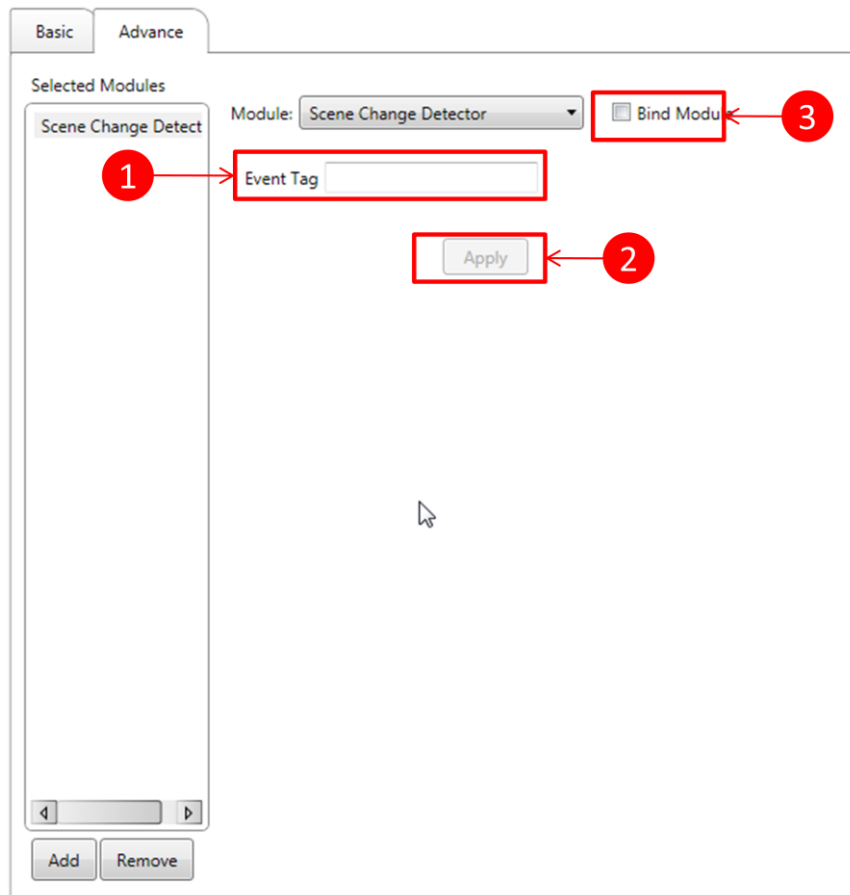This module shall trigger alarm as it detects camera scene changed.

To add the module, open the "Setting Dialog" and select "Channel Settings":

Select the "Analytics" – "Advance" tab, and press the "Add Module" button

Choose the "Scene Change Detector" module, you should see the dialog as follow:

1) **Event Tag**— here user can define the tag of the event.

2) **"Apply" button** – confirm changes by clicking this button.

3) **"Bind Module** " **checkbox**—to deploy the module on the channel.