

NovoSun

CyeWeb

Extension Module

Crowd Detector

User Manual ver. 1.0

Introduction

Crowd Detection is an attractive feature for surveillance agents to monitor abnormal activities in public area, or to manage people flow. The detector will trigger an alarm signal if the density of people in user-specified area exceeds pre-defined crowd threshold, it can also be used for both static and PTZ cameras in different environment.

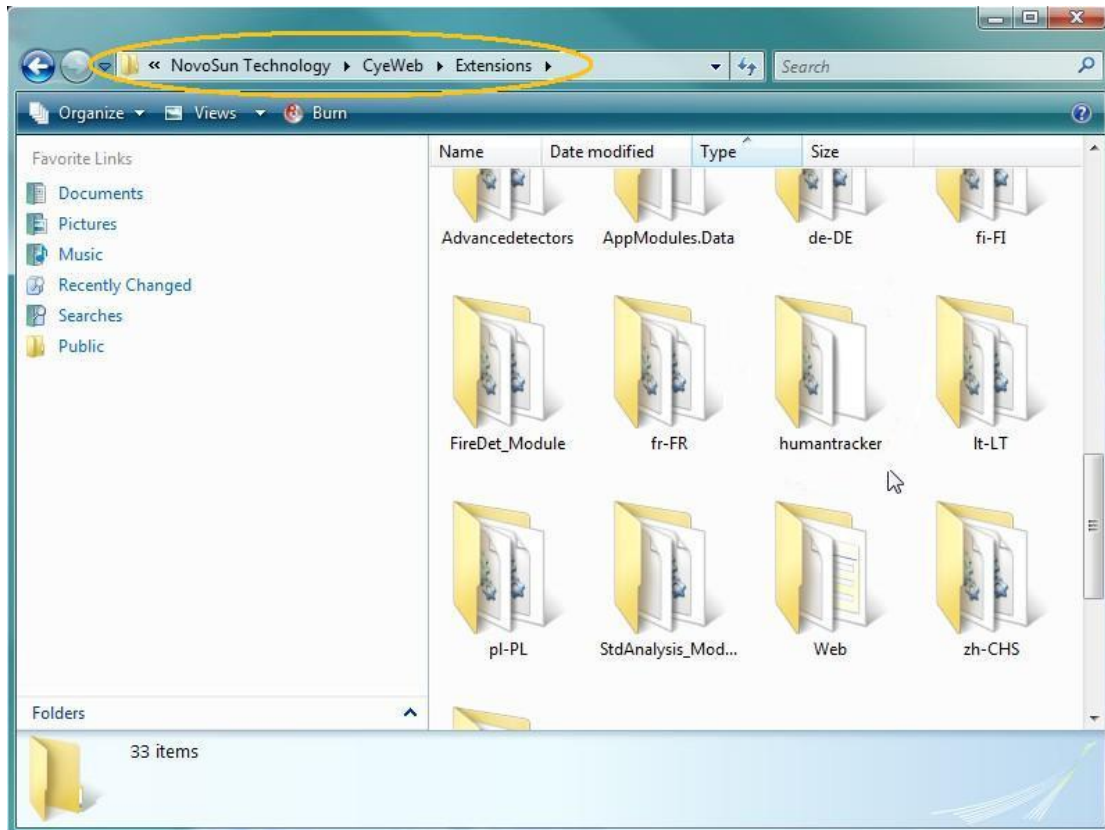


Module Activation

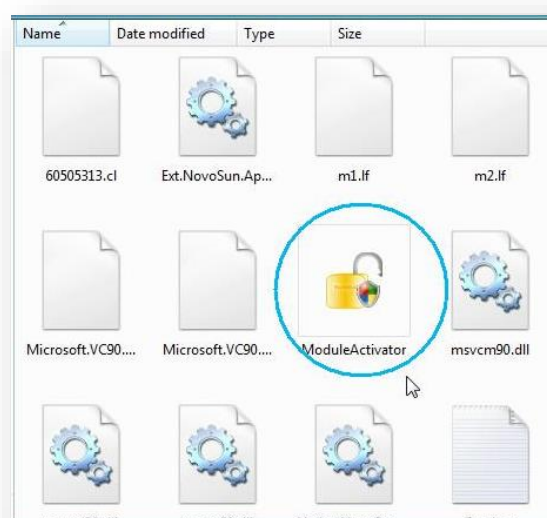
The Crowd Detector is included in the “Advance Detectors” module.

To use the “Advance Detectors” module, first unzip the extension module

“AdvanceDetectors_v20.zip” to “\NovoSun Technology\CyWeb\Extensions\”

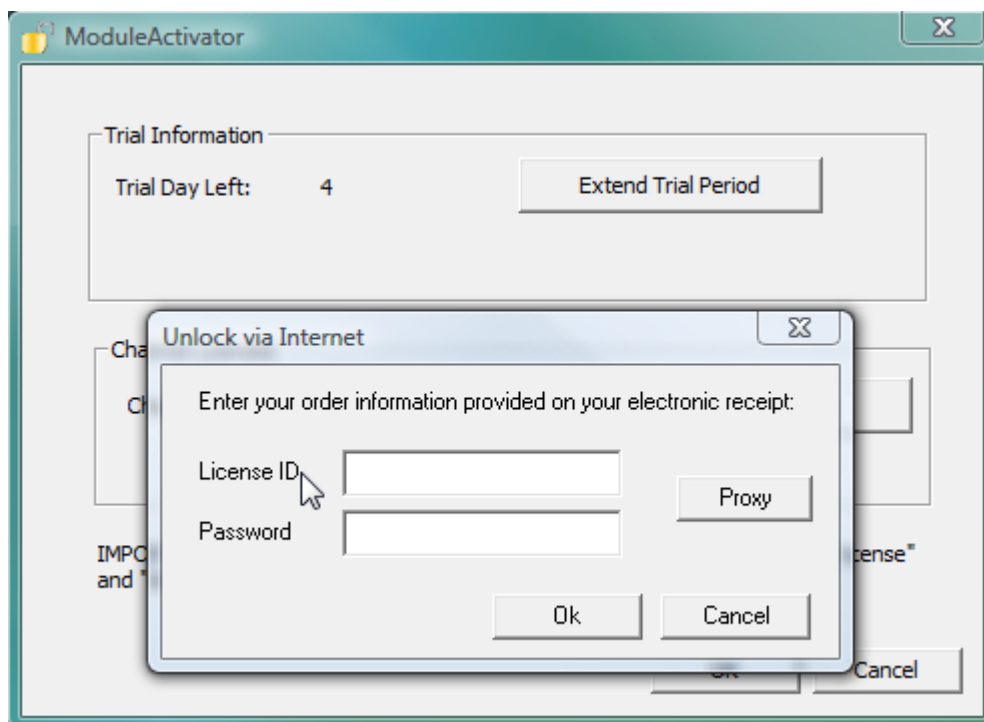


Under the “\CyWeb\Extensions\AdvanceDetectors_v20” folder, run “ModuleActivator.exe”



Input License ID and Password in the ModuleActivator. Please note that if your license is for trial extension, please press the “Extend Trial Period” to activate. Otherwise, press the “Add License” button to activate instead.

PLEASE NOTICE THAT YOU MUST CONNECT YOUR COMPUTER TO INTERNET DURING THE ACTIVATION PROCESS.



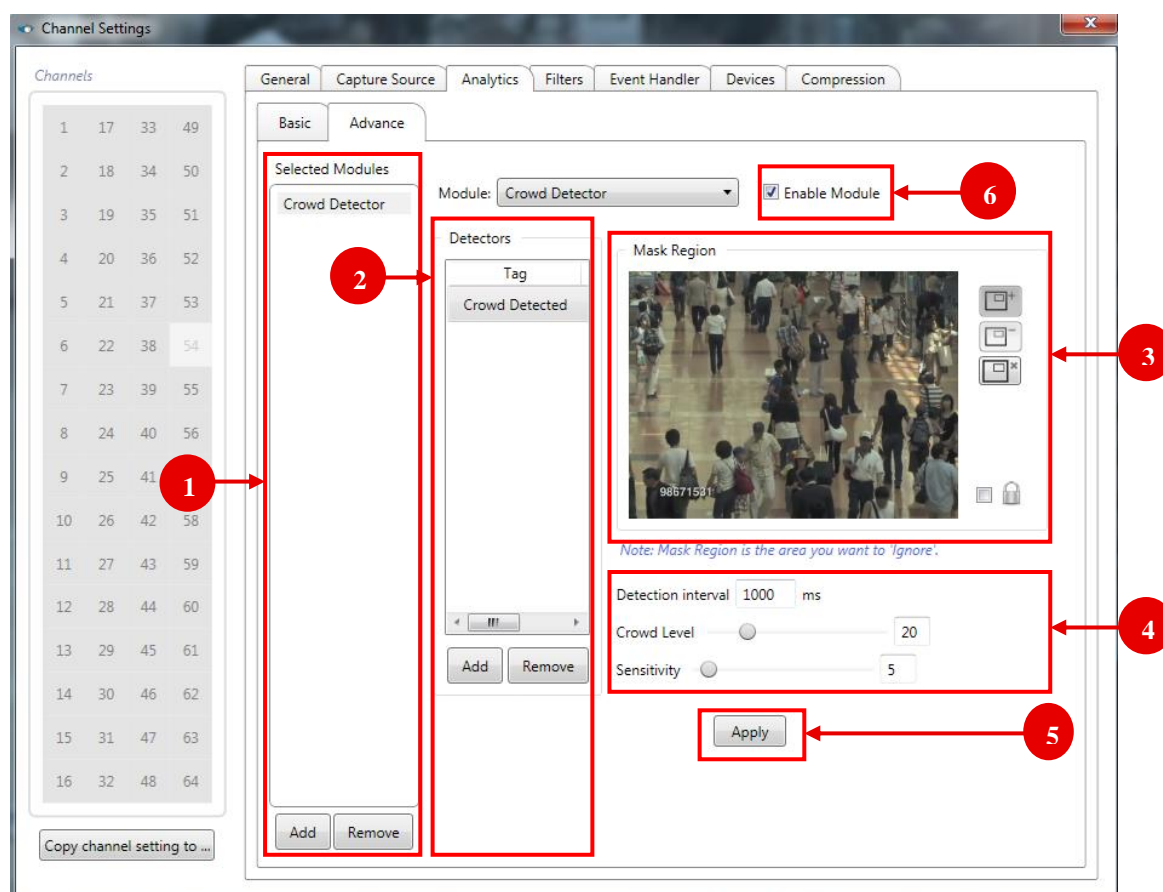
Settings

Before setting up the Crowd Detector, please confirm that the following requirement is met beforehand in order to get satisfactory detection accuracy:

- 1) The camera used for crowd detection should be mounted at least 4m from ground.
- 2) The contrast and sharpness of the input video source should be kept high.
- 3) The resolution of the input video should be larger than VGA(640x480).

Setting

The setting dialog of Crowd Detector is shown as below:





1.) Selected Modules

Here add the “Crowd Detector” to current video channel.

2.) Detectors

Multiple Crowd Detectors can be added to a single video channel, which can be used to detector crowd events in different regions.

3.) Mask Region

Mask those regions which are not of interest to save computation and reduce interference.

4.) Settings

- **Detection Interval:** The time interval between neighboring processing frames.
- **Crowd Level:** Determine the minimum crowd density for triggering an alarm.
- **Sensitivity:** The sensitivity level of the crowd detector. If the video quality of the source is low, such as in low contrast or blurred condition, please increase this value.

5.) Apply

Click on this button to apply if any setting is changed in this dialog.

6.) Enable Module

“Enable Module” button should be checked in order for the Crowd Detector to work.