

New NorPix Product Solution.

StreamPix 4 Motion Detection Module

Compatible with StreamPix 4 multiple camera mode or TroublePix for troubleshooting applications.

The Motion Detection module is designed to perform real time image processing on incoming images and it can detect significant motion or change in an image.

Once a change is detected, the following StreamPix actions can be triggered:

- Start Recording
- Stop Recording
- Pre/Post
- Mark Frame

The screenshot displays the configuration window for the Motion Detection module. It features several sections for user control:

- Source Image:** Includes radio buttons for "From Camera" (selected) and "From Sequence", a "Detect Off" button, and a "Less <<" button.
- Algorithm:** A dropdown menu is set to "Absolute Difference", with a "Less <<" button.
- Graph:** A plot showing "ROI [%]" and "Mean Gray [%]" on the y-axis (0.0 to 100.0) against "Frames" on the x-axis. A green line fluctuates around a horizontal cyan line. To the right is a vertical slider set to approximately 30.0.
- Reference Image:** Includes radio buttons for "Use Previous Image" (selected) and "Use Constant Image", and a "Capture" button.
- Event to Trigger:** A dropdown menu is set to "Record Start", with a "Less <<" button.
- Generate Event After:** A numeric input field contains "1", followed by the text "Img Verify Condition".
- Target:** A dropdown menu is set to "Self".
- ROI Settings:** A "More >>" button.

Additional features:

- Perform detection over a region of interest
- Detect directly from camera or sequence
- Sensitivity of detection can be adjusted to local image condition
- Easy tune up using graphical user interface

Two different detection algorithms are available:

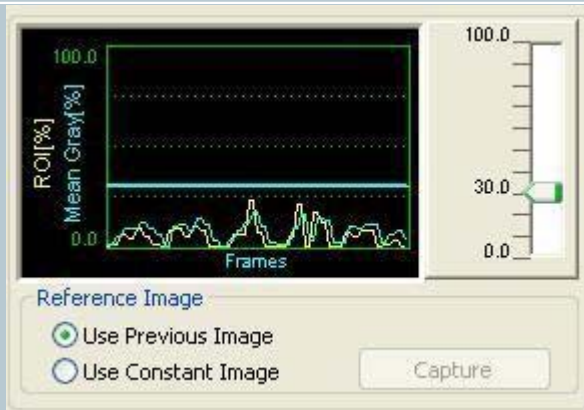
MEAN GRAY

The module will calculate the average gray level in the defined ROI and upon a change from a reference value, will trigger the event.



ABSOLUTE DIFFERENCE

The module will calculate the pixel to pixel difference from a reference image and trigger the event when the difference reaches above a certain threshold.



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