

Detect Control Reference

The Detect class includes controls for common features of various motion or object detection capable devices.

Detect Control IDs

V4L2_CID_DETECT_CLASS (class)

The Detect class descriptor. Calling [ref`VIDIOC_QUERYCTRL`](#) for this control will return a description of this control class.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\v4l\ (linux-master) (Documentation) (userspace-api) (media) (v4l) ext-ctrls-detect.rst, line 19); [backlink](#)

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V4L2_CID_DETECT_MD_MODE (menu)

Sets the motion detection mode.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\v4l\ (linux-master) (Documentation) (userspace-api) (media) (v4l) ext-ctrls-detect.rst, line 26)

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System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\v4l\ (linux-master) (Documentation) (userspace-api) (media) (v4l) ext-ctrls-detect.rst, line 28)

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   * - ``V4L2_DETECT_MD_MODE_DISABLED``
     - Disable motion detection.
   * - ``V4L2_DETECT_MD_MODE_GLOBAL``
     - Use a single motion detection threshold.
   * - ``V4L2_DETECT_MD_MODE_THRESHOLD_GRID``
     - The image is divided into a grid, each cell with its own motion
       detection threshold. These thresholds are set through the
       ``V4L2_CID_DETECT_MD_THRESHOLD_GRID`` matrix control.
   * - ``V4L2_DETECT_MD_MODE_REGION_GRID``
     - The image is divided into a grid, each cell with its own region
       value that specifies which per-region motion detection thresholds
       should be used. Each region has its own thresholds. How these
       per-region thresholds are set up is driver-specific. The region
       values for the grid are set through the
       ``V4L2_CID_DETECT_MD_REGION_GRID`` matrix control.
```

V4L2_CID_DETECT_MD_GLOBAL_THRESHOLD (integer)

Sets the global motion detection threshold to be used with the V4L2_DETECT_MD_MODE_GLOBAL motion detection mode.

V4L2_CID_DETECT_MD_THRESHOLD_GRID (__u16 matrix)

Sets the motion detection thresholds for each cell in the grid. To be used with the

V4L2_DETECT_MD_MODE_THRESHOLD_GRID motion detection mode. Matrix element (0, 0) represents the cell at the top-left of the grid.

V4L2_CID_DETECT_MD_REGION_GRID (__u8 matrix)

Sets the motion detection region value for each cell in the grid. To be used with the

V4L2_DETECT_MD_MODE_REGION_GRID motion detection mode. Matrix element (0, 0) represents the cell at the top-left of the grid.