## **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 <a href="ref">ref</a> VIDIOC\_QUERYCTRL</a> 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\v41\[linux-master] [Documentation] [userspace-api] [media] [v41] ext-ctrls-detect.rst, line 19); backlink Unknown interpreted text role "ref".

V4L2\_CID\_DETECT\_MD\_MODE (menu)

Sets the motion detection mode.

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```
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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

 ${\tt V4L2\_DETECT\_MD\_MODE\_THRESHOLD\_GRID}\ \ motion\ detection\ mode.\ Matrix\ element\ (0,\,0)\ represents\ the\ cell\ at\ the\ top-left\ of\ the\ grid.$ 

```
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.