

# ioctl VIDIOC\_SUBSCRIBE\_EVENT, VIDIOC\_UNSUBSCRIBE\_EVENT

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\v4l\[linux-master] [Documentation] [userspace-api] [media] [v4l]vidioc-subscribe-event.rst, line 2)**

Unknown directive type "c:namespace".

```
.. c:namespace:: V4L
```

## Name

VIDIOC\_SUBSCRIBE\_EVENT - VIDIOC\_UNSUBSCRIBE\_EVENT - Subscribe or unsubscribe event

## Synopsis

**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\v4l\[linux-master] [Documentation] [userspace-api] [media] [v4l]vidioc-subscribe-event.rst, line 19)**

Unknown directive type "c:macro".

```
.. c:macro:: VIDIOC_SUBSCRIBE_EVENT
```

```
int ioctl(int fd, VIDIOC_SUBSCRIBE_EVENT, struct v4l2_event_subscription *argp)
```

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Unknown directive type "c:macro".

```
.. c:macro:: VIDIOC_UNSUBSCRIBE_EVENT
```

```
int ioctl(int fd, VIDIOC_UNSUBSCRIBE_EVENT, struct v4l2_event_subscription *argp)
```

## Arguments

fd

File descriptor returned by `c:func:open()`.

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[backlink](#)

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argp

Pointer to struct `c:type:v4l2_event_subscription`.

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[backlink](#)

Unknown interpreted text role "c:type".

## Description

Subscribe or unsubscribe V4L2 event. Subscribed events are dequeued by using the `ref:VIDIOC_DQEVENT` ioctl.

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**System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\v41\[linux-master] [Documentation] [userspace-api] [media] [v41]vidioc-subscribe-event.rst, line 42)**

Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{2.6cm}|p{4.4cm}|p{10.3cm}|
```

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Unknown directive type "c:type".

```
.. c:type:: v4l2_event_subscription
```

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Unknown directive type "flat-table".

```
.. flat-table:: struct v4l2_event_subscription
   :header-rows: 0
   :stub-columns: 0
   :widths:      1 1 2

   * - u32
     - ``type``
     - Type of the event, see :ref:`event-type`.

     .. note::

        ``V4L2_EVENT_ALL`` can be used with
        :ref:`VIDIOC_UNSUBSCRIBE_EVENT <VIDIOC_SUBSCRIBE_EVENT>` for
        unsubscribing all events at once.

   * - u32
     - ``id``
     - ID of the event source. If there is no ID associated with the
       event source, then set this to 0. Whether or not an event needs an
       ID depends on the event type.

   * - u32
     - ``flags``
     - Event flags, see :ref:`event-flags`.

   * - u32
     - ``reserved`` [5]
     - Reserved for future extensions. Drivers and applications must set
       the array to zero.
```

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Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{7.5cm}|p{2.0cm}|p{7.8cm}|
```

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Unknown directive type "flat-table".

```
.. flat-table:: Event Flags
  :header-rows: 0
  :stub-columns: 0
  :widths:      3 1 4

  * - ``V4L2_EVENT_SUB_FL_SEND_INITIAL``
    - 0x0001
    - When this event is subscribed an initial event will be sent
      containing the current status. This only makes sense for events
      that are triggered by a status change such as ``V4L2_EVENT_CTRL``.
      Other events will ignore this flag.
  * - ``V4L2_EVENT_SUB_FL_ALLOW_FEEDBACK``
    - 0x0002
    - If set, then events directly caused by an ioctl will also be sent
      to the filehandle that called that ioctl. For example, changing a
      control using :ref:`VIDIOC_S_CTRL <VIDIOC_G_CTRL>` will cause
      a V4L2_EVENT_CTRL to be sent back to that same filehandle.
      Normally such events are suppressed to prevent feedback loops
      where an application changes a control to a one value and then
      another, and then receives an event telling it that that control
      has changed to the first value.

      Since it can't tell whether that event was caused by another
      application or by the :ref:`VIDIOC_S_CTRL <VIDIOC_G_CTRL>`
      call it is hard to decide whether to set the control to the value
      in the event, or ignore it.

      Think carefully when you set this flag so you won't get into
      situations like that.
```

## Return Value

On success 0 is returned, on error -1 and the `errno` variable is set appropriately. The generic error codes are described at the [ref:Generic Error Codes <gen-errors>](#) chapter.

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