

ioctl VIDIOC_G_AUDOUT, VIDIOC_S_AUDOUT

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-g-audioout.rst, line 2)

Unknown directive type "c:namespace".

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

Name

VIDIOC_G_AUDOUT - VIDIOC_S_AUDOUT - Query or select the current audio output

Synopsis

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Unknown directive type "c:macro".

```
.. c:macro:: VIDIOC_G_AUDOUT
```

```
int ioctl(int fd, VIDIOC_G_AUDOUT, struct v4l2_audioout *argp)
```

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Unknown directive type "c:macro".

```
.. c:macro:: VIDIOC_S_AUDOUT
```

```
int ioctl(int fd, VIDIOC_S_AUDOUT, const struct v4l2_audioout *argp)
```

Arguments

fd

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

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Unknown interpreted text role "c:func".

argp

Pointer to struct `c:type:v4l2_audioout`.

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Unknown interpreted text role "c:type".

Description

To query the current audio output applications zero out the `reserved` array of a struct `c:type:v4l2_audioout` and call the `VIDIOC_G_AUDOUT` `ioctl` with a pointer to this structure. Drivers fill the rest of the structure or return an `EINVAL` error code when the device has no audio inputs, or none which combine with the current video output.

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Unknown interpreted text role "c:type".

Audio outputs have no writable properties. Nevertheless, to select the current audio output applications can initialize the `index` field and `reserved` array (which in the future may contain writable properties) of a struct `c:type:'v4l2_audioout'` structure and call the `VIDIOC_S_AUDOUT` ioctl. Drivers switch to the requested output or return the `EINVAL` error code when the index is out of bounds. This is a write-only ioctl, it does not return the current audio output attributes as `VIDIOC_G_AUDOUT` does.

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Unknown interpreted text role "c:type".

Note

Connectors on a TV card to loop back the received audio signal to a sound card are not audio outputs in this sense.

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Unknown directive type "c:type".

```
.. c:type:: v4l2_audioout
```

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Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{4.4cm}|p{4.4cm}|p{8.5cm}|
```

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Unknown directive type "flat-table".

```
.. flat-table:: struct v4l2_audioout
  :header-rows: 0
  :stub-columns: 0
  :widths:      1 1 2

  * - __u32
    - __index
    - Identifies the audio output, set by the driver or application.
  * - __u8
    - __name [32]
    - Name of the audio output, a NUL-terminated ASCII string, for
      example: "Line Out". This information is intended for the user,
      preferably the connector label on the device itself.
  * - __u32
    - __capability
    - Audio capability flags, none defined yet. Drivers must set this
      field to zero.
  * - __u32
    - __mode
    - Audio mode, none defined yet. Drivers and applications (on
      VIDIOC_S_AUDOUT) must set this field to zero.
  * - __u32
    - __reserved [2]
    - Reserved for future extensions. Drivers and applications must set
      the array to zero.
```

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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Unknown interpreted text role "ref".

EINVAL

No audio outputs combine with the current video output, or the number of the selected audio output is out of bounds or it does not combine.