

ioctl VIDIOC_G_AUDIO, VIDIOC_S_AUDIO

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-audio.rst, line 2)

Unknown directive type "c:namespace".

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

Name

VIDIOC_G_AUDIO - VIDIOC_S_AUDIO - Query or select the current audio input and its attributes

Synopsis

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Unknown directive type "c:macro".

```
.. c:macro:: VIDIOC_G_AUDIO
```

```
int ioctl(int fd, VIDIOC_G_AUDIO, struct v4l2_audio *argp)
```

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Unknown directive type "c:macro".

```
.. c:macro:: VIDIOC_S_AUDIO
```

```
int ioctl(int fd, VIDIOC_S_AUDIO, const struct v4l2_audio *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_audio`.

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Unknown interpreted text role "c:type".

Description

To query the current audio input applications zero out the `reserved` array of a struct `c:type:v4l2_audio` and call the `ref:VIDIOC_G_AUDIO <VIDIOC_G_AUDIO>` `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 input.

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Unknown interpreted text role "c:type".

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Unknown interpreted text role "ref".

Audio inputs have one writable property, the audio mode. To select the current audio input *and* change the audio mode, applications initialize the `index` and `mode` fields, and the `reserved` array of a struct `c:type:'v4l2_audio'` structure and call the `ref:'VIDIOC_S_AUDIO <VIDIOC_G_AUDIO>'` ioctl. Drivers may switch to a different audio mode if the request cannot be satisfied. However, this is a write-only ioctl, it does not return the actual new audio mode.

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Unknown interpreted text role "c:type".

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Unknown interpreted text role "ref".

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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 "c:type".

```
.. c:type:: v4l2_audio
```

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Unknown directive type "flat-table".

```
.. flat-table:: struct v4l2_audio
   :header-rows: 0
   :stub-columns: 0
   :widths:      1 1 2

   * - u32
     - ``index``
     - Identifies the audio input, set by the driver or application.
   * - u8
     - ``name`` [32]
     - Name of the audio input, a NUL-terminated ASCII string, for
       example: "Line In". This information is intended for the user,
       preferably the connector label on the device itself.
   * - u32
     - ``capability``
     - Audio capability flags, see :ref:`audio-capability`.
   * - u32
```

- ``mode``
- Audio mode flags set by drivers and applications (on :ref:`VIDIOC_S_AUDIO` <VIDIOC_G_AUDIO>` ioctl), see :ref:`audio-mode`.
- * - `u32`
- ``reserved``\ [2]
- Reserved for future extensions. Drivers and applications must set the array to zero.

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Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{6.6cm}|p{2.2cm}|p{8.5cm}|
```

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Unknown directive type "flat-table".

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

   * - ``V4L2_AUDCAP_STEREO``
     - 0x00001
     - This is a stereo input. The flag is intended to automatically
       disable stereo recording etc. when the signal is always monaural.
       The API provides no means to detect if stereo is *received*,
       unless the audio input belongs to a tuner.
   * - ``V4L2_AUDCAP_AVL``
     - 0x00002
     - Automatic Volume Level mode is supported.
```

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Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{6.6cm}|p{2.2cm}|p{8.5cm}|
```

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Unknown directive type "flat-table".

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

   * - ``V4L2_AUDMODE_AVL``
     - 0x00001
     - AVL mode is on.
```

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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[api](#)] [\[media\]](#) [\[v41\]](#) [vidioc-g-audio.rst](#), line 118); [backlink](#)

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EINVAL

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