ioctl VIDIOC_G_AUDIO, VIDIOC_S_AUDIO

 $System\ Message: ERROR/3\ (\mbox{D:\noboarding-resources\sample-onboarding-resources\linux-master)} \ (\mbox{Documentation}\subseteq api\media\v41\(linux-master)\ (\mbox{Documentation})\ (userspace-api)\ (media)\ (v41)\ 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

Unknown directive type "c:macro".

.. c:macro:: VIDIOC_G_AUDIO

int ioctl(int fd, VIDIOC G AUDIO, struct v412 audio *argp)

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.. c:macro:: VIDIOC S AUDIO

int ioctl(int fd, VIDIOC S AUDIO, const struct v412 audio *argp)

Arguments

fd

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

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arqp

Pointer to struct :c:type:\v412 audio\.

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Description

To query the current audio input applications zero out the reserved array of a struct :c:type:'v4!2_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 "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 "ref".

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-g-audio.rst, line 52)

Unknown directive type "tabularcolumns".

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.. tabularcolumns:: |p{4.4cm}|p{4.4cm}|p{8.5cm}|
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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-g-audio.rst, line 54)

Unknown directive type "c:type".

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

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```
- ``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.
```

```
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-g-audio.rst, line 82)

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.. tabularcolumns:: |p{6.6cm}|p{2.2cm}|p{8.5cm}|
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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-g-audio.rst, line 102)

The API provides no means to detect if stereo is *received*,

unless the audio input belongs to a tuner.

- Automatic Volume Level mode is supported.

Unknown directive type "tabularcolumns".

- 0x00002

``V4L2_AUDCAP_AVL

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

Unknown directive type "flat-table".

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.