# ioctl VIDIOC\_G\_AUDOUT, VIDIOC\_S\_AUDOUT

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-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 v412 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 v412 audioout \*argp)

### Arguments

fd

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

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arqp

Pointer to struct :c:type:'v412 audioout'.

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## **Description**

To query the current audio output applications zero out the reserved array of a struct :c:type:'v412\_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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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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#### 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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.. tabularcolumns:: |p{4.4cm}|p{4.4cm}|p{8.5cm}|

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Unknown directive type "flat-table".

```
.. flat-table:: struct v412 audioout
   :header-rows: 0
    :stub-columns: 0
   :widths:
         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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#### **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.