

ioctl VIDIOC_G_FREQUENCY, VIDIOC_S_FREQUENCY

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-frequency.rst, line 2)

Unknown directive type "c:namespace".

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

Name

VIDIOC_G_FREQUENCY - VIDIOC_S_FREQUENCY - Get or set tuner or modulator radio frequency

Synopsis

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Unknown directive type "c:macro".

```
.. c:macro:: VIDIOC_G_FREQUENCY
```

```
int ioctl(int fd, VIDIOC_G_FREQUENCY, struct v4l2_frequency *argp)
```

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Unknown directive type "c:macro".

```
.. c:macro:: VIDIOC_S_FREQUENCY
```

```
int ioctl(int fd, VIDIOC_S_FREQUENCY, const struct v4l2_frequency *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_frequency`.

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Unknown interpreted text role "c:type".

Description

To get the current tuner or modulator radio frequency applications set the `tuner` field of a struct `c:type:v4l2_frequency` to the

respective tuner or modulator number (only input devices have tuners, only output devices have modulators), zero out the reserved array and call the `ref: VIDIOC_G_FREQUENCY <VIDIOC_G_FREQUENCY>` ioctl with a pointer to this structure. The driver stores the current frequency in the `frequency` field.

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Unknown interpreted text role "c:type".

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Unknown interpreted text role "ref".

To change the current tuner or modulator radio frequency applications initialize the `tuner`, `type` and `frequency` fields, and the reserved array of a struct `c:type: v4l2_frequency` and call the `ref: VIDIOC_S_FREQUENCY <VIDIOC_G_FREQUENCY>` ioctl with a pointer to this structure. When the requested frequency is not possible the driver assumes the closest possible value. However `ref: VIDIOC_S_FREQUENCY <VIDIOC_G_FREQUENCY>` is a write-only ioctl, it does not return the actual new frequency.

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Unknown interpreted text role "c:type".

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Unknown interpreted text role "ref".

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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_frequency
```

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Unknown directive type "flat-table".

```
.. flat-table:: struct v4l2_frequency
   :header-rows: 0
   :stub-columns: 0
   :widths:      1 1 2
```

- * - `_u32`
- ```tuner```
- The tuner or modulator index number. This is the same value as in the struct `:c:type:'v4l2_input' ``tuner``` field and the struct `:c:type:'v4l2_tuner' ``index``` field, or the struct `:c:type:'v4l2_output' ``modulator``` field and the struct `:c:type:'v4l2_modulator' ``index``` field.
- * - `_u32`
- ```type```
- The tuner type. This is the same value as in the struct `:c:type:'v4l2_tuner' ``type``` field. The type must be set to ```V4L2_TUNER_RADIO``` for ```/dev/radioX``` device nodes, and to ```V4L2_TUNER_ANALOG_TV``` for all others. Set this field to ```V4L2_TUNER_RADIO``` for modulators (currently only radio modulators are supported). See `:c:type:'v4l2_tuner_type'`
- * - `_u32`
- ```frequency```
- Tuning frequency in units of 62.5 kHz, or if the struct `:c:type:'v4l2_tuner'` or struct `:c:type:'v4l2_modulator' ``capability``` flag ```V4L2_TUNER_CAP_LOW``` is set, in units of 62.5 Hz. A 1 Hz unit is used when the ```capability``` flag ```V4L2_TUNER_CAP_1HZ``` is set.
- * - `_u32`
- ```reserved``\ [8]`
- 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

The `tuner` index is out of bounds or the value in the `type` field is wrong.

EBUSY

A hardware seek is in progress.