ioctl VIDIOC S HW FREQ SEEK

```
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-s-hw-freq-seek.rst, line 2)
Unknown directive type "c:namespace".
.. c:namespace:: V4L
```

Name

VIDIOC S HW FREQ SEEK - Perform a hardware frequency seek

Synopsis

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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-s-hw-freq-seek.rst, line 18)

Unknown directive type "c:macro".

.. c:macro:: VIDIOC_S_HW_FREQ_SEEK
```

int ioctl(int fd, VIDIOC_S_HW_FREQ_SEEK, struct v412_hw_freq_seek *argp)

Arguments

fd

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

Unknown interpreted text role "c:func".

argp

Pointer to struct :c:type:\v412_hw_freq_seek\`.

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Unknown interpreted text role "c:type".

Description

Start a hardware frequency seek from the current frequency. To do this applications initialize the tuner, type, seek_upward, wrap_around, spacing, rangelow and rangehigh fields, and zero out the reserved array of a struct catype: v412 hw freq seek` and call the VIDIOC S HW FREQ SEEK ioctl with a pointer to this structure.

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Unknown interpreted text role "c:type".

The rangelow and rangehigh fields can be set to a non-zero value to tell the driver to search a specific band. If the struct

cctype: v412_tuner' capability field has the V4L2_TUNER_CAP_HWSEEK_PROG_LIM flag set, these values must fall within one of the bands returned by ref: VIDIOC_ENUM_FREQ_BANDS'. If the V4L2_TUNER_CAP_HWSEEK_PROG_LIM flag is not set, then these values must exactly match those of one of the bands returned by ref: VIDIOC_ENUM_FREQ_BANDS'. If the current frequency of the tuner does not fall within the selected band it will be clamped to fit in the band before the seek is started.

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Unknown interpreted text role "c:type".

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Unknown interpreted text role 'ref'.

If an error is returned, then the original frequency will be restored.

This ioctl is supported if the V4L2 CAP HW FREQ SEEK capability is set.

If this ioctl is called from a non-blocking filehandle, then EAGAIN error code is returned and no seek takes place.

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Unknown directive type "tabularcolumns".

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.. tabularcolumns:: |p{4.4cm}|p{4.4cm}|p{8.5cm}|
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Unknown directive type "c:type".

```
.. c:type:: v412 hw freq seek
```

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Unknown directive type "flat-table".

```
.. flat-table:: struct v412 hw freq seek
   :header-rows: 0
   :stub-columns: 0
   :widths:
   * _
         u32
     - ``tuner``
     - The tuner index number. This is the same value as in the struct
       :c:type:`v412_input` ``tuner`` field and the struct
       :c:type:`v412_tuner` ``index`` field.
   * - _u32
- ``type``
      - The tuner type. This is the same value as in the struct
       :c:type:`v412_tuner` ``type`` field. See
       :c:type:`v412_tuner_type
         u32
     - ``seek_upward``
      - If non-zero, seek upward from the current frequency, else seek
        downward.
```

```
u32
  - ``wrap_around``
  - If non-zero, wrap around when at the end of the frequency range,
     else stop seeking. The struct :c:type:`v412 tuner
      `capability`` field will tell you what the hardware supports.
  - ``spacing`
  - If non-zero, defines the hardware seek resolution in Hz. The
    driver selects the nearest value that is supported by the device.
    If spacing is zero a reasonable default value is used.
* - __u32
- ``rangelow``
  - If non-zero, the lowest tunable frequency of the band to search in
    units of 62.5 kHz, or if the struct
:c:type:`v412_tuner` ``capability`` field has the
    ``V4L2_TUNER_CAP_LOW`` flag set, in units of 62.5 Hz or if the struct :c:type:`v4l2_tuner` ``capability`` field has
    the ``V4L2_TUNER_CAP_1HZ`` flag set, in units of 1 Hz. If ``rangelow`` is zero a reasonable default value is used.
  - _u32
- ``rangehigh``
  - If non-zero, the highest tunable frequency of the band to search
    in units of 62.5 kHz, or if the struct
:c:type:`v4l2_tuner` ``capability`` field has the
     :c:type:`v4l2_tuner`
     ``V4L2 TUNER CAP LOW`` flag set, in units of 62.5 Hz or if the
    struct :c:type:`v412_tuner` ``capability`` field has the ``V4L2_TUNER_CAP_1HZ`` flag set, in units of 1 Hz. If
     ``rangehigh`` is zero a reasonable default value is used.
       u32
  - ``reserved``\ [5]
  - Reserved for future extensions. Applications must set the array to
```

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, the wrap_around value is not supported or one of the values in the type, rangelow or rangehigh fields is wrong.

EAGAIN

Attempted to call VIDIOC_S_HW_FREQ_SEEK with the filehandle in non-blocking mode.

ENODATA

The hardware seek found no channels.

EBUSY

Another hardware seek is already in progress.