ioctl VIDIOC S HW FREQ SEEK

```
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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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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()'.

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Unknown interpreted text role "c:func".

argp

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

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 ctype: 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

c.type: 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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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}|
```

Unknown directive type "c:type".

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

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.