ioctl VIDIOC ENUMINPUT

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

Unknown directive type "c:namespace".

.. c:namespace:: V4L

Name

VIDIOC ENUMINPUT - Enumerate video inputs

Synopsis

```
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-enuminput.rst, line 18)
```

Unknown directive type "c:macro".

```
.. c:macro:: VIDIOC ENUMINPUT
```

int ioctl(int fd, VIDIOC ENUMINPUT, struct v412 input *argp)

Arguments

fd

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

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-enuminput.rst, line 26); backlink

Unknown interpreted text role "c:func".

argp

Pointer to struct :c:type:\v412_input\.

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-enuminput.rst, line 29); backlink

Unknown interpreted text role "c:type".

Description

To query the attributes of a video input applications initialize the <code>index</code> field of struct <code>c:type:'v4l2_input'</code> and call the <code>ref:VIDIOC_ENUMINPUT'</code> with a pointer to this structure. Drivers fill the rest of the structure or return an <code>EINVAL</code> error code when the index is out of bounds. To enumerate all inputs applications shall begin at index zero, incrementing by one until the driver returns <code>EINVAL</code>.

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-enuminput.rst, line 34); backlink

Unknown interpreted text role "c:type".

 $System\,Message: ERROR/3~(\texttt{D:}\nonboarding-resources}\nonboarding-resources\\\nonboarding-$

api) (media) (v41) vidioc-enuminput.rst, line 34); backlink

Unknown interpreted text role "ref".

Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{3.0cm}|p{3.5cm}|p{10.8cm}|
```

 $System\ Message: ERROR/3\ (\mbox{D:\noboarding-resources}\scample-onboarding-resources\linux-master)\ (\mbox{Documentation}\scample-onboarding-resources\linux-master)\ (\mbox{Documentation}\scampl$

Unknown directive type "c:type".

```
.. c:type:: v4l2 input
```

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-enuminput.rst, line 45)

Unknown directive type "flat-table".

```
.. flat-table:: struct v4l2 input
    :header-rows: 0
    :stub-columns: 0
                   1 1 2
   :widths:
    * - __u32
- ``index``
      - Identifies the input, set by the application.
    * - _u8
- ``name``\ [32]
     - Name of the video input, a NUL-terminated ASCII string, for
       example: "Vin (Composite 2)". This information is intended for the
       user, preferably the connector label on the device itself.
         u32
     - ``type`
      - Type of the input, see :ref:`input-type`.
         u32
     - ``audioset``
      - Drivers can enumerate up to 32 video and audio inputs. This field
       shows which audio inputs were selectable as audio source if this
       was the currently selected video input. It is a bit mask. The LSB
        corresponds to audio input 0, the MSB to input 31. Any number of
       bits can be set, or none.
```

When the driver does not enumerate audio inputs no bits must be set. Applications shall not interpret this as lack of audio support. Some drivers automatically select audio sources and do not enumerate them since there is no choice anyway.

For details on audio inputs and how to select the current input see :ref:`audio`.

```
* - _u32
- ``tuner``
```

- Capture devices can have zero or more tuners (RF demodulators). When the ``type`` is set to ``V4L2_INPUT_TYPE_TUNER`` this is an RF connector and this field identifies the tuner. It corresponds to struct :c:type:`v4l2_tuner` field ``index``. For
- details on tuners see :ref:`tuner`.
 * :ref:`v412_std_id <v412-std-id>`
  ```.'.'`
  - ``std``
  - Every video input supports one or more different video standards. This field is a set of all supported standards. For details on video standards and how to switch see :ref:`standard`.
- \* \_\_u32 - ``status``
  - This field provides status information about the input. See :ref:`input-status` for flags. With the exception of the sensor orientation bits ``status`` is only valid when this is the current input.

```
* - __u32
- ``capabilities``
- This field provides capabilities for the input. See
 :ref:`input-capabilities` for flags.

* - __u32
- ``reserved``\ [3]
- Reserved for future extensions. Drivers must set the array to zero.
```

Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{6.6cm}|p{1.0cm}|p{9.7cm}|
```

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-enuminput.rst, line 108)

Unknown directive type "flat-table".

Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{5.6cm}|p{2.6cm}|p{9.1cm}|
```

 $System\,Message:\,ERROR/3~(\mbox{D:\noboarding-resources\sample-onboarding-resources\linux-master\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentation\scalebox})~(\mbox{Documentat$ 

Unknown directive type "flat-table".

```
.. flat-table:: Input Status Flags
 :header-rows: 0
 :stub-columns: 0

* - :cspan: '2' General
 * - '`V4L2_IN_ST_NO_POWER'`
 - 0x00000001
 - Attached device is off.
 * - '`V4L2_IN_ST_NO_SIGNAL'`
 - 0x00000002
 -
 * - '`V4L2_IN_ST_NO_COLOR'`
 - 0x00000004
 - The hardware supports color decoding, but does not detect color modulation in the signal.
 * - :cspan: '2' Sensor Orientation
```

```
* - ``V4L2 IN ST_HFLIP``
 -0x0000010
 - The input is connected to a device that produces a signal that is
 flipped horizontally and does not correct this before passing the
 signal to userspace.
* - ``V4L2 IN ST VFLIP`
 -0x00000020
 The input is connected to a device that produces a signal that is
 flipped vertically and does not correct this before passing the
 signal to userspace.
 .. note:: A 180 degree rotation is the same as HFLIP | VFLIP
* - :cspan: `2` Analog Video
* - ``V4L2 IN ST NO H LOCK`
 -0x00000100
 - No horizontal sync lock.
* - ``V4L2 IN ST COLOR KILL`
 -0x00000200
 · A color killer circuit automatically disables color decoding when
 it detects no color modulation. When this flag is set the color
 killer is enabled *and* has shut off color decoding.
* - ``V4L2 IN_ST_NO_V_LOCK`
 -0x00000400
 - No vertical sync lock.
* - ``V4L2_IN_ST_NO_STD_LOCK`
 -0x00000800
 - No standard format lock in case of auto-detection format
 by the component.
* - :cspan:`2` Digital Video
* - ``V4L2_IN_ST_NO_SYNC``
 -0x0001\overline{0}000
 - No synchronization lock.
* - ``V4L2 IN ST NO EQU`
 -0x0002\overline{0}000
 - No equalizer lock.
* - ``V4L2_IN_ST_NO_CARRIER``
 - 0x00040000
 - Carrier recovery failed.
* - :cspan:`2` VCR and Set-Top Box
* - ``V4L2_IN_ST_MACROVISION``
 -0x01000000
 - Macrovision is an analog copy prevention system mangling the video
 signal to confuse video recorders. When this flag is set
 Macrovision has been detected.
 ``V4L2 IN ST NO ACCESS
 -0x02000000
 - Conditional access denied.
* - ``V4L2 IN ST VTR`
 -0x04000000
 - VTR time constant. [?]
```

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-enuminput.rst, line 197)

Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{6.6cm}|p{2.4cm}|p{8.3cm}|
```

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-enuminput.rst, line 201)

Unknown directive type "flat-table".

```
``VIDIOC_S_STD``.

* - ``V4L2_IN_CAP_NATIVE_SIZE``
- 0x00000008
- This input supports setting the native size using the
 ``V4L2_SEL_TGT_NATIVE_SIZE`` selection target, see
 :ref:`v4l2-selections-common`.
```

## 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.

 $System\ Message: ERROR/3\ (\mbox{D:\noboarding-resources}\space-onboarding-resources \linux-master) (Documentation) (userspace-api)\ (media)\ (v41)\ vidioc-enuminput.rst, line\ 223); \\ backlink$ 

Unknown interpreted text role 'ref'.

### **EINVAL**

The struct :c:type:`v412\_input` index is out of bounds.

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-enuminput.rst, line 228); backlink Unknown interpreted text role "c:type".