# ioctl VIDIOC\_SUBDEV\_ENUM\_MBUS\_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-subdev-enum-mbus-code.rst, line 2)

Unknown directive type "c:namespace".

.. c:namespace:: V4L

### Name

VIDIOC\_SUBDEV\_ENUM\_MBUS\_CODE - Enumerate media bus formats

## **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-subdev-enum-mbus-code.rst, line 18)

Unknown directive type "c:macro".

.. c:macro:: VIDIOC SUBDEV ENUM MBUS CODE

int ioctl(int fd, VIDIOC SUBDEV ENUM MBUS CODE, struct v412 subdev mbus code enum \* argp)

### **Arguments**

fd

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

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argp

Pointer to struct :c.type: v412 subdev mbus code enum'.

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# Description

To enumerate media bus formats available at a given sub-device pad applications initialize the pad, which and index fields of struct sctype: v412\_subdev\_mbus\_code\_enum` and call the ref.`VIDIOC\_SUBDEV\_ENUM\_MBUS\_CODE` ioctl with a pointer to this structure. Drivers fill the rest of the structure or return an EINVAL error code if either the pad or index are invalid. All media bus formats are enumerable by beginning at index zero and incrementing by one until EINVAL is returned.

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Available media bus formats may depend on the current 'try' formats at other pads of the sub-device, as well as on the current active links. See <a href="ref">ref" VIDIOC</a> SUBDEV G FMT for more information about the try formats.

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Unknown directive type "c:type".

```
.. c:type:: v412_subdev_mbus_code_enum
```

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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 "flat-table".

```
.. flat-table:: struct v412 subdev mbus code enum
    :header-rows: 0
    :stub-columns: 0
    :widths:
      - __u32
- ``pad``
      - Pad number as reported by the media controller API.
         u32
      - ``index``
      - Number of the format in the enumeration, set by the application.
      - _u32
- ``code`
      - The media bus format code, as defined in
        :ref:`v412-mbus-format`.
      - __u32
- ``which`
      - Media bus format codes to be enumerated, from enum
       :ref:`v412_subdev_format_whence <v412-subdev-format-whence>`.
      - _u32
- ``flags``
      - See :ref:`v412-subdev-mbus-code-flags`
      - __u32
- ``reserved``\ [7]
      - Reserved for future extensions. Applications and drivers must set
        the array to zero.
```

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#### Unknown directive type "tabularcolumns".

.. tabularcolumns:: |p{8.8cm}|p{2.2cm}|p{6.3cm}|

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Unknown directive type "flat-table".

- - \* V4L2 SUBDEV MBUS CODE CSC COLORSPACE
    - -0x00000001
    - The driver allows the application to try to change the default colorspace encoding. The application can ask to configure the colorspace of the subdevice when calling the :ref:`VIDIOC\_SUBDEV\_S\_FMT <VIDIOC\_SUBDEV\_G\_FMT>` ioctl with :ref:`V4L2\_MBUS\_FRAMEFMT\_SET\_CSC <mbus-framefmt-set-csc>` set. See :ref:`v4l2-mbus-format` on how to do this.
  - \* V4L2 SUBDEV MBUS CODE CSC XFER FUNC
    - -0x000000002
    - The driver allows the application to try to change the default transform function. The application can ask to configure the transform function of the subdevice when calling the :ref: `VIDIOC\_SUBDEV\_S\_FMT <VIDIOC\_SUBDEV\_G\_FMT>' ioctl with :ref: `V4L2\_MBUS\_FRAMEFMT\_SET\_CSC <mbus-framefmt-set-csc>` set. See :ref: `v4l2-mbus-format` on how to do this.
  - \* V4L2 SUBDEV MBUS CODE CSC YCBCR ENC
    - -0x00000004
    - The driver allows the application to try to change the default Y'CbCr encoding. The application can ask to configure the Y'CbCr encoding of the subdevice when calling the :ref:`VIDIOC\_SUBDEV\_S\_FMT <VIDIOC\_SUBDEV\_G\_FMT>`ioctl with :ref:`V4L2\_MBUS\_FRAMEFMT\_SET\_CSC <mbus-framefmt-set-csc>` set. See :ref:`v4l2-mbus-format` on how to do this.
  - \* V4L2 SUBDEV MBUS CODE CSC HSV ENC
    - -0x00000004
    - The driver allows the application to try to change the default HSV encoding. The application can ask to configure the HSV encoding of the subdevice when calling the :ref:`VIDIOC\_SUBDEV\_S\_FMT <VIDIOC\_SUBDEV\_G\_FMT>`ioctl with :ref:`V4L2\_MBUS\_FRAMEFMT\_SET\_CSC <mbus-framefmt-set-csc>` set. See :ref:`v4l2-mbus-format on how to do this.
  - \* V4L2 SUBDEV MBUS CODE CSC QUANTIZATION
    - -0x00000008
    - The driver allows the application to try to change the default quantization. The application can ask to configure the quantization of the subdevice when calling the :ref: `VIDIOC\_SUBDEV\_S\_FMT <VIDIOC\_SUBDEV\_G\_FMT> ioctl with :ref: `V4L2\_MBUS\_FRAMEFMT\_SET\_CSC <mbus-framefmt-set-csc>` set. See :ref: `v4l2-mbus-format` on how to do this.

### 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

The struct :c.type: v412 subdev mbus code enum pad references a non-existing pad, or the index field is out of bounds.

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