ioctl VIDIOC_SUBDEV_QUERYCAP

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-subdev-querycap.rst, line 2)

Unknown directive type "c:namespace".

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

Name

VIDIOC_SUBDEV_QUERYCAP - Query sub-device capabilities

Synopsis

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Unknown directive type "c:macro".

```
.. c:macro:: VIDIOC_SUBDEV_QUERYCAP
```

```
int ioctl(int fd, VIDIOC_SUBDEV_QUERYCAP, struct v4l2_subdev_capability *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_subdev_capability`.

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Unknown interpreted text role "c:type".

Description

All V4L2 sub-devices support the `VIDIOC_SUBDEV_QUERYCAP` ioctl. It is used to identify kernel devices compatible with this specification and to obtain information about driver and hardware capabilities. The ioctl takes a pointer to a struct :c:type:`v4l2_subdev_capability` which is filled by the driver. When the driver is not compatible with this specification the ioctl returns `ENOTTY` error code.

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Unknown interpreted text role "c:type".

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Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{1.5cm}|p{2.9cm}|p{12.9cm}|
```

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Unknown directive type "c:type".

```
.. c:type:: v4l2_subdev_capability
```

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Unknown directive type "flat-table".

```
.. flat-table:: struct v4l2_subdev_capability
    :header-rows:  0
    :stub-columns: 0
    :widths:       3 4 20

    * - __u32
      - ``version``
      - Version number of the driver.

        The version reported is provided by the V4L2 subsystem following the
        kernel numbering scheme. However, it may not always return the same
        version as the kernel if, for example, a stable or
        distribution-modified kernel uses the V4L2 stack from a newer kernel.

        The version number is formatted using the ``KERNEL_VERSION()``
        macro:
    * - :cspan:`2`

        ``#define KERNEL_VERSION(a,b,c) (((a) << 16) + ((b) << 8) + (c))``

        ``__u32 version = KERNEL_VERSION(0, 8, 1);``

        ``printf ("Version: %u.%u.%u\\n",``

        ``(version >> 16) & 0xFF, (version >> 8) & 0xFF, version & 0xFF);``
    * - __u32
      - ``capabilities``
      - Sub-device capabilities of the opened device, see
        :ref:`subdevice-capabilities`.
    * - __u32
      - ``reserved``\ [14]
      - Reserved for future extensions. Set to 0 by the V4L2 core.
```

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Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{6.8cm}|p{2.4cm}|p{8.1cm}|
```

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Unknown directive type "cssclass".

```
.. cssclass:: longtable
```

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Unknown directive type "flat-table".

```
.. flat-table:: Sub-Device Capabilities Flags
    :header-rows:  0
    :stub-columns: 0
    :widths:       3 1 4

    * - V4L2_SUBDEV_CAP_RO_SUBDEV
      - 0x00000001
      - The sub-device device node is registered in read-only mode.
        Access to the sub-device ioctls that modify the device state is
        restricted. Refer to each individual subdevice ioctl documentation
        for a description of which restrictions apply to a read-only sub-device.
```

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".

ENOTTY
: The device node is not a V4L2 sub-device.