ioctl VIDIOC_SUBDEV_G_CROP, VIDIOC SUBDEV S CROP

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-g-crop.rst, line 2)

Unknown directive type "cnamespace".

.. c:namespace:: V4L

Name

VIDIOC SUBDEV G CROP - VIDIOC SUBDEV S CROP - Get or set the crop rectangle on a subdev pad

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-g-crop.rst, line 18)

Unknown directive type "c:macro".

.. c:macro:: VIDIOC_SUBDEV_G_CROP
```

```
int ioctl(int fd, VIDIOC SUBDEV G CROP, struct v412 subdev crop *argp)
```

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-g-crop.rst, line 22)
Unknown directive type "cmacro".

```
.. c:macro:: VIDIOC_SUBDEV_S_CROP
```

int ioctl(int fd, VIDIOC SUBDEV S CROP, const struct v412 subdev crop *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 subdev_crop'.

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Unknown interpreted text role "c:type".

Description

Note

This is an ref. obsolete interface and may be removed in the future. It is superseded by ref. the selection API <VIDIOC_SUBDEV_G_SELECTION>.

```
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```

Unknown interpreted text role 'ref'.

```
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```

Unknown interpreted text role 'ref'.

To retrieve the current crop rectangle applications set the pad field of a struct x:type:\v412_subdev_crop\` to the desired pad number as reported by the media API and the which field to V4L2_SUBDEV_FORMAT_ACTIVE. They then call the VIDIOC_SUBDEV_G_CROP ioctl with a pointer to this structure. The driver fills the members of the rect field or returns EINVAL error code if the input arguments are invalid, or if cropping is not supported on the given pad.

```
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-g-crop.rst, line 44); backlink
Unknown interpreted text role "c:type".
```

```
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-g-crop.rst, line 53); backlink
Unknown interpreted text role "c:type".
```

Applications can query the device capabilities by setting the which to V4L2_SUBDEV_FORMAT_TRY. When set, 'try' crop rectangles are not applied to the device by the driver, but are mangled exactly as active crop rectangles and stored in the sub-device file handle. Two applications querying the same sub-device would thus not interact with each other.

If the subdev device node has been registered in read-only mode, calls to <code>VIDIOC_SUBDEV_S_CROP</code> are only valid if the <code>which</code> field is set to <code>V4L2 SUBDEV FORMAT TRY</code>, otherwise an error is returned and the errno variable is set to <code>-EPERM</code>.

Drivers must not return an error solely because the requested crop rectangle doesn't match the device capabilities. They must instead modify the rectangle to match what the hardware can provide. The modified format should be as close as possible to the original request.

```
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Unknown directive type "c:type".

.. c:type:: v412_subdev_crop
```

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-g-crop.rst, line 81)

Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{4.4cm}|p{4.4cm}|p{8.5cm}|
```

```
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-g-crop.rst, line 83)
Unknown directive type "flat-table".
   .. flat-table:: struct v412 subdev crop
       :header-rows: 0
       :stub-columns: 0
       :widths:
                   1 1 2
             u32
         - ``pad``
         - Pad number as reported by the media framework.
       * - __u32
- ``which``
         - Crop rectangle to get or set, from enum
           :ref:`v412 subdev format whence <v412-subdev-format-whence>`.
       * - struct :c:type: `v412 rect`
          · ``rect
         - Crop rectangle boundaries, in pixels.
       * - __u32
- ``reserved``\ [8]
         - Reserved for future extensions. Applications and drivers must set
           the array to zero.
```

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".
```

EBUSY

The crop rectangle can't be changed because the pad is currently busy. This can be caused, for instance, by an active video stream on the pad. The ioctl must not be retried without performing another action to fix the problem first. Only returned by VIDIOC SUBDEV S CROP

EINVAL

The struct :c:type:`v412_subdev_crop` pad references a non-existing pad, the which field references a non-existing format, or cropping is not supported on the given subdev pad.

```
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```

Unknown interpreted text role "c:type".

EPERM

The <code>VIDIOC_SUBDEV_S_CROP</code> ioctl has been called on a read-only subdevice and the <code>which</code> field is set to <code>V4L2_SUBDEV_FORMAT_ACTIVE</code>.