

ioctl VIDIOC_G_STD, VIDIOC_S_STD, VIDIOC_SUBDEV_G_STD, VIDIOC_SUBDEV_S_STD

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-g-std.rst, line 2)

Unknown directive type "c:namespace".

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

Name

VIDIOC_G_STD - VIDIOC_S_STD - VIDIOC_SUBDEV_G_STD - VIDIOC_SUBDEV_S_STD - Query or select the video standard of the current input

Synopsis

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Unknown directive type "c:macro".

```
.. c:macro:: VIDIOC_G_STD
```

```
int ioctl(int fd, VIDIOC_G_STD, v4l2_std_id *argp)
```

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Unknown directive type "c:macro".

```
.. c:macro:: VIDIOC_S_STD
```

```
int ioctl(int fd, VIDIOC_S_STD, const v4l2_std_id *argp)
```

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Unknown directive type "c:macro".

```
.. c:macro:: VIDIOC_SUBDEV_G_STD
```

```
int ioctl(int fd, VIDIOC_SUBDEV_G_STD, v4l2_std_id *argp)
```

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Unknown directive type "c:macro".

```
.. c:macro:: VIDIOC_SUBDEV_S_STD
```

```
int ioctl(int fd, VIDIOC_SUBDEV_S_STD, const v4l2_std_id *argp)
```

Arguments

fd

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

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Unknown interpreted text role "c:func".

argp

Pointer to `:c:type:'v4l2_std_id'`.

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Unknown interpreted text role "c:type".

Description

To query and select the current video standard applications use the `ref:'VIDIOC_G_STD<VIDIOC_G_STD>'` and `ref:'VIDIOC_S_STD<VIDIOC_G_STD>'` ioctls which take a pointer to a `ref:'v4l2_std_id<v4l2-std-id>'` type as argument. `ref:'VIDIOC_G_STD<VIDIOC_G_STD>'` can return a single flag or a set of flags as in struct `:c:type:'v4l2_standard'` field `id`. The flags must be unambiguous such that they appear in only one enumerated struct `:c:type:'v4l2_standard'` structure.

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Unknown interpreted text role "ref".

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Unknown interpreted text role "ref".

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Unknown interpreted text role "ref".

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Unknown interpreted text role "ref".

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Unknown interpreted text role "c:type".

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Unknown interpreted text role "c:type".

`ref:'VIDIOC_S_STD<VIDIOC_G_STD>'` accepts one or more flags, being a write-only ioctl it does not return the actual new standard as `ref:'VIDIOC_G_STD<VIDIOC_G_STD>'` does. When no flags are given or the current input does not support the requested standard the driver returns an `EINVAL` error code. When the standard set is ambiguous drivers may return `EINVAL` or choose any of the requested standards. If the current input or output does not support standard video timings (e.g. if

`ref`VIDIOC_ENUMINPUT`` does not set the `V4L2_IN_CAP_STD` flag), then `ENODATA` error code is returned.

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Calling `VIDIOC_SUBDEV_S_STD` on a subdev device node that has been registered in read-only mode is not allowed. An error is returned and the `errno` variable is set to `-EPERM`.

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 `ref`VIDIOC_S_STD <VIDIOC_G_STD>`` parameter was unsuitable.

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`ENODATA`

Standard video timings are not supported for this input or output.

`EPERM`

`VIDIOC_SUBDEV_S_STD` has been called on a read-only subdevice.