

# ioctl VIDIOC\_QUERYSTD, VIDIOC\_SUBDEV\_QUERYSTD

**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-querystd.rst, line 2)**

Unknown directive type "c:namespace".

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

## Name

VIDIOC\_QUERYSTD - VIDIOC\_SUBDEV\_QUERYSTD - Sense the video standard received by the current input

## Synopsis

**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-querystd.rst, line 18)**

Unknown directive type "c:macro".

```
.. c:macro:: VIDIOC_QUERYSTD
```

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

**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-querystd.rst, line 22)**

Unknown directive type "c:macro".

```
.. c:macro:: VIDIOC_SUBDEV_QUERYSTD
```

```
int ioctl(int fd, VIDIOC_SUBDEV_QUERYSTD, v4l2_std_id *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\v4l\linux-master\Documentation\userspace-api\media\v4l\vidioc-querystd.rst, line 30); [backlink](#)**

Unknown interpreted text role "c:func".

argp

Pointer to `c:type:v4l2_std_id`.

**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-querystd.rst, line 33); [backlink](#)**

Unknown interpreted text role "c:type".

## Description

The hardware may be able to detect the current video standard automatically. To do so, applications call

`ref`VIDIOC_QUERYSTD`` with a pointer to a `ref`v4l2_std_id <v4l2-std-id>`` type. The driver stores here a set of candidates, this can be a single flag or a set of supported standards if for example the hardware can only distinguish between 50 and 60 Hz systems. If no signal was detected, then the driver will return `V4L2_STD_UNKNOWN`. When detection is not possible or fails, the set must contain all standards supported by the current video input or output.

**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-querystd.rst, line 38); [backlink](#)

Unknown interpreted text role "ref".

**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-querystd.rst, line 38); [backlink](#)

Unknown interpreted text role "ref".

## Note

Drivers shall *not* switch the video standard automatically if a new video standard is detected. Instead, drivers should send the `V4L2_EVENT_SOURCE_CHANGE` event (if they support this) and expect that userspace will take action by calling `ref`VIDIOC_QUERYSTD``. The reason is that a new video standard can mean different buffer sizes as well, and you cannot change buffer sizes on the fly. In general, applications that receive the Source Change event will have to call `ref`VIDIOC_QUERYSTD``, and if the detected video standard is valid they will have to stop streaming, set the new standard, allocate new buffers and start streaming again.

**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-querystd.rst, line 50); [backlink](#)

Unknown interpreted text role "ref".

**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-querystd.rst, line 50); [backlink](#)

Unknown interpreted text role "ref".

## 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** (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\v4l\[linux-master] [Documentation] [userspace-api] [media] [v4l]vidioc-querystd.rst, line 64); [backlink](#)

Unknown interpreted text role "ref".

## ENODATA

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