V4L2 ioctl()

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

Name

v4l2-ioctl - Program a V4L2 device

Synopsis

```
#include <sys/ioctl.h>
int ioctl(int fd, int request, void *argp)
```

Arguments

fd

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

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request

V4L2 ioctl request code as defined in the videodev2.h header file, for example VIDIOC QUERYCAP.

argp

Pointer to a function parameter, usually a structure.

Description

The ref'ioctl() < function is used to program V4L2 devices. The argument fd must be an open file descriptor. An ioctl request has encoded in it whether the argument is an input, output or read/write parameter, and the size of the argument argp in bytes. Macros and defines specifying V4L2 ioctl requests are located in the videodev2.h header file. Applications should use their own copy, not include the version in the kernel sources on the system they compile on. All V4L2 ioctl requests, their respective function and parameters are specified in ref'user-func'.

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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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When an ioctl that takes an output or read/write parameter fails, the parameter remains unmodified.