Video Inputs and Outputs

Video inputs and outputs are physical connectors of a device. These can be for example: RF connectors (antenna/cable), CVBS a.k.a. Composite Video, S-Video and RGB connectors. Camera sensors are also considered to be a video input. Video and VBI capture devices have inputs. Video and VBI output devices have outputs, at least one each. Radio devices have no video inputs or outputs.

To learn about the number and attributes of the available inputs and outputs applications can enumerate them with the ref. VIDIOC_ENUMINPUT and ref. VIDIOC_ENUMOUTPUT ioctl, respectively. The struct retype: v412_input returned by the ref. VIDIOC_ENUMINPUT ioctl also contains signal status information applicable when the current video input is queried.

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The <code>ref: VIDIOC_G_INPUT < VIDIOC_G_INPUT></code> and <code>ref: VIDIOC_G_OUTPUT < VIDIOC_G_OUTPUT></code> ioctls return the index of the current video input or output. To select a different input or output applications call the <code>ref: VIDIOC_S_INPUT < VIDIOC_G_INPUT></code> and <code>ref: VIDIOC_S_OUTPUT < VIDIOC_G_OUTPUT></code> ioctls. Drivers must implement all the input ioctls when the device has one or more inputs, all the output ioctls when the device has one or more outputs.

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Example: Information about the current video input

```
struct v412_input input;
int index;

if (-1 == ioctl(fd, VIDIOC_G_INPUT, &index)) {
    perror("VIDIOC_G_INPUT");
    exit(EXIT_FAILURE);
}

memset(&input, 0, sizeof(input));
input.index = index;

if (-1 == ioctl(fd, VIDIOC_ENUMINPUT, &input)) {
    perror("VIDIOC_ENUMINPUT");
    exit(EXIT_FAILURE);
}

printf("Current input: %s\\n", input.name);
```

Example: Switching to the first video input

```
int index;
index = 0;
if (-1 == ioctl(fd, VIDIOC_S_INPUT, &index)) {
    perror("VIDIOC_S_INPUT");
    exit(EXIT_FAILURE);
}
```