

ioctl VIDIOC_G_JPEGCOMP, VIDIOC_S_JPEGCOMP

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-jpegcomp.rst, line 2)

Unknown directive type "c:namespace".

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

Name

VIDIOC_G_JPEGCOMP - VIDIOC_S_JPEGCOMP

Synopsis

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Unknown directive type "c:macro".

```
.. c:macro:: VIDIOC_G_JPEGCOMP
```

```
int ioctl(int fd, VIDIOC_G_JPEGCOMP, v4l2_jpegcompression *argp)
```

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Unknown directive type "c:macro".

```
.. c:macro:: VIDIOC_S_JPEGCOMP
```

```
int ioctl(int fd, VIDIOC_S_JPEGCOMP, const v4l2_jpegcompression *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:v4l2_jpegcompression`.

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Description

These ioctls are **deprecated**. New drivers and applications should use `ref:JPEG class controls <jpeg-controls>` for image quality and JPEG markers control.

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Unknown interpreted text role "ref".

[to do]

Ronald Bultje elaborates:

APP is some application-specific information. The application can set it itself, and it'll be stored in the JPEG-encoded fields (eg: interlacing information for in an AVI or so). COM is the same, but it's comments, like 'encoded by me' or so.

jpeg_markers describes whether the huffman tables, quantization tables and the restart interval information (all JPEG-specific stuff) should be stored in the JPEG-encoded fields. These define how the JPEG field is encoded. If you omit them, applications assume you've used standard encoding. You usually do want to add them.

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Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{1.2cm}|p{3.0cm}|p{13.1cm}|
```

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Unknown directive type "c:type".

```
.. c:type:: v4l2_jpegcompression
```

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Unknown directive type "flat-table".

```
.. flat-table:: struct v4l2_jpegcompression
   :header-rows: 0
   :stub-columns: 0
   :widths:      1 1 2

   * - int
     - ``quality``
     - Deprecated. If
       :ref:`V4L2_CID_JPEG_COMPRESSION_QUALITY <jpeg-quality-control>`
       control is exposed by a driver applications should use it instead
       and ignore this field.
   * - int
     - ``APPn``
     -
   * - int
     - ``APP_len``
     -
   * - char
     - ``APP_data``\ [60]
     -
   * - int
     - ``COM_len``
     -
   * - char
     - ``COM_data``\ [60]
     -
   * - _u32
     - ``jpeg_markers``
     - See :ref:`jpeg-markers`. Deprecated. If
       :ref:`V4L2_CID_JPEG_ACTIVE_MARKER <jpeg-active-marker-control>`
       control is exposed by a driver applications should use it instead
       and ignore this field.
```

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Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{6.6cm}|p{2.2cm}|p{8.5cm}|
```

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Unknown directive type "flat-table".

```
.. flat-table:: JPEG Markers Flags
  :header-rows: 0
  :stub-columns: 0
  :widths:      3 1 4

  * - ``V4L2_JPEG_MARKER_DHT``
    - (1<<3)
    - Define Huffman Tables
  * - ``V4L2_JPEG_MARKER_DQT``
    - (1<<4)
    - Define Quantization Tables
  * - ``V4L2_JPEG_MARKER_DRI``
    - (1<<5)
    - Define Restart Interval
  * - ``V4L2_JPEG_MARKER_COM``
    - (1<<6)
    - Comment segment
  * - ``V4L2_JPEG_MARKER_APP``
    - (1<<7)
    - App segment, driver will always use APP0
```

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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