

Reserved Format Identifiers

These formats are not defined by this specification, they are just listed for reference and to avoid naming conflicts. If you want to register your own format, send an e-mail to the linux-media mailing list <https://linuxtv.org/lists.php> for inclusion in the videodev2.h file. If you want to share your format with other developers add a link to your documentation and send a copy to the linux-media mailing list for inclusion in this section. If you think your format should be listed in a standard format section please make a proposal on the linux-media mailing list.

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\v4l\[linux-master] [Documentation] [userspace-api] [media] [v4l]pixfmt-reserved.rst, line 20)

Unknown directive type "tabularcolumns".

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

System Message: ERROR/3 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\userspace-api\media\v4l\[linux-master] [Documentation] [userspace-api] [media] [v4l]pixfmt-reserved.rst, line 28)

Unknown directive type "flat-table".

```
.. flat-table:: Reserved Image Formats
   :header-rows: 1
   :stub-columns: 0
   :widths:      3 1 4

   * - Identifier
     - Code
     - Details
   * .. _V4L2-PIX-FMT-DV:

     - ``V4L2_PIX_FMT_DV``
     - 'dvsd'
     - unknown
   * .. _V4L2-PIX-FMT-ET61X251:

     - ``V4L2_PIX_FMT_ET61X251``
     - 'E625'
     - Compressed format of the ET61X251 driver.
   * .. _V4L2-PIX-FMT-HI240:

     - ``V4L2_PIX_FMT_HI240``
     - 'HI24'
     - 8 bit RGB format used by the BTTV driver.
   * .. _V4L2-PIX-FMT-CPIA1:

     - ``V4L2_PIX_FMT_CPIA1``
     - 'CPIA'
     - YUV format used by the gspca cpial driver.
   * .. _V4L2-PIX-FMT-JPGL:

     - ``V4L2_PIX_FMT_JPGL``
     - 'JPGL'
     - JPEG-Light format (Pegasus Lossless JPEG) used in Divio webcams NW
       80x.
   * .. _V4L2-PIX-FMT-SPCA501:

     - ``V4L2_PIX_FMT_SPCA501``
     - 'S501'
     - YUYV per line used by the gspca driver.
   * .. _V4L2-PIX-FMT-SPCA505:

     - ``V4L2_PIX_FMT_SPCA505``
     - 'S505'
     - YYUV per line used by the gspca driver.
   * .. _V4L2-PIX-FMT-SPCA508:

     - ``V4L2_PIX_FMT_SPCA508``
     - 'S508'
     - YUVY per line used by the gspca driver.
   * .. _V4L2-PIX-FMT-SPCA561:

     - ``V4L2_PIX_FMT_SPCA561``
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- 'S561'
- Compressed GBRG Bayer format used by the gspca driver.
* .. _V4L2-PIX-FMT-PAC207:

- ``V4L2_PIX_FMT_PAC207``
- 'P207'
- Compressed BGGR Bayer format used by the gspca driver.
* .. _V4L2-PIX-FMT-MR97310A:

- ``V4L2_PIX_FMT_MR97310A``
- 'M310'
- Compressed BGGR Bayer format used by the gspca driver.
* .. _V4L2-PIX-FMT-JL2005BCD:

- ``V4L2_PIX_FMT_JL2005BCD``
- 'JL20'
- JPEG compressed RGGB Bayer format used by the gspca driver.
* .. _V4L2-PIX-FMT-OV511:

- ``V4L2_PIX_FMT_OV511``
- 'O511'
- OV511 JPEG format used by the gspca driver.
* .. _V4L2-PIX-FMT-OV518:

- ``V4L2_PIX_FMT_OV518``
- 'O518'
- OV518 JPEG format used by the gspca driver.
* .. _V4L2-PIX-FMT-PJPG:

- ``V4L2_PIX_FMT_PJPG``
- 'PJPG'
- Pixart 73xx JPEG format used by the gspca driver.
* .. _V4L2-PIX-FMT-SE401:

- ``V4L2_PIX_FMT_SE401``
- 'S401'
- Compressed RGB format used by the gspca se401 driver
* .. _V4L2-PIX-FMT-SQ905C:

- ``V4L2_PIX_FMT_SQ905C``
- '905C'
- Compressed RGGB bayer format used by the gspca driver.
* .. _V4L2-PIX-FMT-MJPEG:

- ``V4L2_PIX_FMT_MJPEG``
- 'MJPG'
- Compressed format used by the Zoran driver
* .. _V4L2-PIX-FMT-PWC1:

- ``V4L2_PIX_FMT_PWC1``
- 'PWC1'
- Compressed format of the PWC driver.
* .. _V4L2-PIX-FMT-PWC2:

- ``V4L2_PIX_FMT_PWC2``
- 'PWC2'
- Compressed format of the PWC driver.
* .. _V4L2-PIX-FMT-SN9C10X:

- ``V4L2_PIX_FMT_SN9C10X``
- 'S910'
- Compressed format of the SN9C102 driver.
* .. _V4L2-PIX-FMT-SN9C20X-I420:

- ``V4L2_PIX_FMT_SN9C20X_I420``
- 'S920'
- YUV 4:2:0 format of the gspca sn9c20x driver.
* .. _V4L2-PIX-FMT-SN9C2028:

- ``V4L2_PIX_FMT_SN9C2028``
- 'SONX'
- Compressed GBRG bayer format of the gspca sn9c2028 driver.
* .. _V4L2-PIX-FMT-STV0680:

- ``V4L2_PIX_FMT_STV0680``
- 'S680'
- Bayer format of the gspca stv0680 driver.
* .. _V4L2-PIX-FMT-WNVA:

- ``V4L2_PIX_FMT_WNVA``
- 'WNVA'

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- Used by the Winnov Videum driver,
  `http://www.thedirks.org/winnov/` <http://www.thedirks.org/winnov/>`__
* .. _V4L2-PIX-FMT-TM6000:

- ``V4L2_PIX_FMT_TM6000``
- 'TM60'
- Used by Trident tm6000
* .. _V4L2-PIX-FMT-CIT-YYVYUY:

- ``V4L2_PIX_FMT_CIT_YYVYUY``
- 'CITV'
- Used by xirlink CIT, found at IBM webcams.

  Uses one line of Y then 1 line of VYUY
* .. _V4L2-PIX-FMT-KONICA420:

- ``V4L2_PIX_FMT_KONICA420``
- 'KONI'
- Used by Konica webcams.

  YUV420 planar in blocks of 256 pixels.
* .. _V4L2-PIX-FMT-YYUV:

- ``V4L2_PIX_FMT_YYUV``
- 'YYUV'
- unknown
* .. _V4L2-PIX-FMT-Y4:

- ``V4L2_PIX_FMT_Y4``
- 'Y04 '
- Old 4-bit greyscale format. Only the most significant 4 bits of
  each byte are used, the other bits are set to 0.
* .. _V4L2-PIX-FMT-Y6:

- ``V4L2_PIX_FMT_Y6``
- 'Y06 '
- Old 6-bit greyscale format. Only the most significant 6 bits of
  each byte are used, the other bits are set to 0.
* .. _V4L2-PIX-FMT-S5C-UYVY-JPG:

- ``V4L2_PIX_FMT_S5C_UYVY_JPG``
- 'S5CI'
- Two-planar format used by Samsung S5C73MX cameras. The first plane
  contains interleaved JPEG and UYVY image data, followed by meta
  data in form of an array of offsets to the UYVY data blocks. The
  actual pointer array follows immediately the interleaved JPEG/UYVY
  data, the number of entries in this array equals the height of the
  UYVY image. Each entry is a 4-byte unsigned integer in big endian
  order and it's an offset to a single pixel line of the UYVY image.
  The first plane can start either with JPEG or UYVY data chunk. The
  size of a single UYVY block equals the UYVY image's width
  multiplied by 2. The size of a JPEG chunk depends on the image and
  can vary with each line.

  The second plane, at an offset of 4084 bytes, contains a 4-byte
  offset to the pointer array in the first plane. This offset is
  followed by a 4-byte value indicating size of the pointer array.
  All numbers in the second plane are also in big endian order.
  Remaining data in the second plane is undefined. The information
  in the second plane allows to easily find location of the pointer
  array, which can be different for each frame. The size of the
  pointer array is constant for given UYVY image height.

  In order to extract UYVY and JPEG frames an application can
  initially set a data pointer to the start of first plane and then
  add an offset from the first entry of the pointers table. Such a
  pointer indicates start of an UYVY image pixel line. Whole UYVY
  line can be copied to a separate buffer. These steps should be
  repeated for each line, i.e. the number of entries in the pointer
  array. Anything what's in between the UYVY lines is JPEG data and
  should be concatenated to form the JPEG stream.
* .. _V4L2-PIX-FMT-MT21C:

- ``V4L2_PIX_FMT_MT21C``
- 'MT21'
- Compressed two-planar YVU420 format used by Mediatek MT8173, MT8192,
  MT8195 and more. The compression is lossless. This format have
  similitude with ``V4L2_PIX_FMT_MM21`` in term of alignment and tiling.
  It remains an opaque intermediate format and the MDP hardware must be
  used to convert ``V4L2_PIX_FMT_MT21C`` to ``V4L2_PIX_FMT_NV12M``,
  ``V4L2_PIX_FMT_YUV420M`` or ``V4L2_PIX_FMT_YVU420``.

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