V4L2_PIX_FMT_SRGGB12P ('pRCC'), V4L2_PIX_FMT_SGRBG12P ('pgCC'), V4L2_PIX_FMT_SGBRG12P ('pGCC'), V4L2_PIX_FMT_SBGGR12P ('pBCC'),

12-bit packed Bayer formats

Description

These four pixel formats are packed raw sRGB / Bayer formats with 12 bits per colour. Every two consecutive samples are packed into three bytes. Each of the first two bytes contain the 8 high order bits of the pixels, and the third byte contains the four least significants bits of each pixel, in the same order.

Each n-pixel row contains n/2 green samples and n/2 blue or red samples, with alternating green-red and green-blue rows. They are conventionally described as GRGR... BGBG..., RGRG... GBGB..., etc. Below is an example of a small V4L2_PIX_FMT_SBGGR12P image:

Byte Order. Each cell is one byte.

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-srggb12p.rst`, **line 34**)

Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{2.2cm}|p{1.2cm}|p{1.2cm}|p{3.1cm}|p{1.2cm}|p{1.2cm}|p{6.4cm}|
```

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-srggb12p.rst`, **line 37**)

Unknown directive type "flat-table".

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

    - - start + 0:
      - B\ :sub:`00high`
      - G\ :sub:`01high`
      - G\ :sub:`01low`\ (bits 7--4)

        B\ :sub:`00low`\ (bits 3--0)
      - B\ :sub:`02high`
      - G\ :sub:`03high`
      - G\ :sub:`03low`\ (bits 7--4)

        B\ :sub:`02low`\ (bits 3--0)
    - - start + 6:
      - G\ :sub:`10high`
      - R\ :sub:`11high`
      - R\ :sub:`11low`\ (bits 7--4)

        G\ :sub:`10low`\ (bits 3--0)
      - G\ :sub:`12high`
      - R\ :sub:`13high`
      - R\ :sub:`13low`\ (bits 3--2)

        G\ :sub:`12low`\ (bits 3--0)
    - - start + 12:
      - B\ :sub:`20high`
      - G\ :sub:`21high`
      - G\ :sub:`21low`\ (bits 7--4)

        B\ :sub:`20low`\ (bits 3--0)
```

```
        - B\ :sub:`22high`
        - G\ :sub:`23high`
        - G\ :sub:`23low`\ (bits 7--4)

          B\ :sub:`22low`\ (bits 3--0)
  -   - start + 18:
        - G\ :sub:`30high`
        - R\ :sub:`31high`
        - R\ :sub:`31low`\ (bits 7--4)

          G\ :sub:`30low`\ (bits 3--0)
        - G\ :sub:`32high`
        - R\ :sub:`33high`
        - R\ :sub:`33low`\ (bits 3--2)

          G\ :sub:`32low`\ (bits 3--0)
```