

# 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 significant 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)
```