V4L2_PIX_FMT_SRGGB10P ('pRAA'), V4L2_PIX_FMT_SGRBG10P ('pgAA'), V4L2_PIX_FMT_SGBRG10P ('pGAA'), V4L2_PIX_FMT_SBGGR10P ('pBAA'),

V4L2_PIX_FMT_SGRBG10P V4L2_PIX_FMT_SGBRG10P V4L2_PIX_FMT_SBGGR10P 10-bit packed Bayer formats

Description

These four pixel formats are packed raw sRGB / Bayer formats with 10 bits per sample. Every four consecutive samples are packed into 5 bytes. Each of the first 4 bytes contain the 8 high order bits of the pixels, and the 5th byte contains the 2 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_SBGGR10P 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-srggb10p.rst, line 36)

Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{2.4cm}|p{1.4cm}|p{1.2cm}|p{1.2cm}|p{1.2cm}|p{9.3cm}|
```

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-srggb10p.rst, line 38)

Unknown directive type "flat-table".

```
.. flat-table::
    :header-rows:  0
    :stub-columns: 0
    :widths: 12 8 8 8 8 68

    * - start + 0:
      - B\ :sub:`00high`
      - G\ :sub:`01high`
      - B\ :sub:`02high`
      - G\ :sub:`03high`
      - G\ :sub:`03low`\ (bits 7--6) B\ :sub:`02low`\ (bits 5--4)

        G\ :sub:`01low`\ (bits 3--2) B\ :sub:`00low`\ (bits 1--0)
    * - start + 5:
      - G\ :sub:`10high`
      - R\ :sub:`11high`
      - G\ :sub:`12high`
      - R\ :sub:`13high`
      - R\ :sub:`13low`\ (bits 7--6) G\ :sub:`12low`\ (bits 5--4)

        R\ :sub:`11low`\ (bits 3--2) G\ :sub:`10low`\ (bits 1--0)
    * - start + 10:
      - B\ :sub:`20high`
      - G\ :sub:`21high`
      - B\ :sub:`22high`
      - G\ :sub:`23high`
      - G\ :sub:`23low`\ (bits 7--6) B\ :sub:`22low`\ (bits 5--4)

        G\ :sub:`21low`\ (bits 3--2) B\ :sub:`20low`\ (bits 1--0)
    * - start + 15:
      - G\ :sub:`30high`
      - R\ :sub:`31high`
      - G\ :sub:`32high`
      - R\ :sub:`33high`
      - R\ :sub:`33low`\ (bits 7--6) G\ :sub:`32low`\ (bits 5--4)
```

R\ :sub:`31low`\ (bits 3--2) G\ :sub:`30low`\ (bits 1--0)