

V4L2_PIX_FMT_INZI ('INZI')

Infrared 10-bit linked with Depth 16-bit images

Description

Proprietary multi-planar format used by Intel SR300 Depth cameras, comprise of Infrared image followed by Depth data. The pixel definition is 32-bpp, with the Depth and Infrared Data split into separate continuous planes of identical dimensions.

The first plane - Infrared data - is stored according to `ref`V4L2_PIX_FMT_Y10 <V4L2-PIX-FMT-Y10>`` greyscale format. Each pixel is 16-bit cell, with actual data stored in the 10 LSBs with values in range 0 to 1023. The six remaining MSBs are padded with zeros.

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-inzi.rst, line 22); [backlink](#)

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The second plane provides 16-bit per-pixel Depth data arranged in `ref`V4L2-PIX-FMT-Z16 <V4L2-PIX-FMT-Z16>`` format.

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-inzi.rst, line 29); [backlink](#)

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Frame Structure. Each cell is a 16-bit word with more significant data stored at higher memory address (byte order is little-endian).

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-inzi.rst, line 42)

Unknown directive type "tabularcolumns".

```
.. tabularcolumns:: |p{2.5cm}|p{2.5cm}|p{2.5cm}|p{2.5cm}|p{2.5cm}|p{2.5cm}|
```

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-inzi.rst, line 44)

Unknown directive type "flat-table".

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

  * - Ir\ :sub:`0,0`
    - Ir\ :sub:`0,1`
    - Ir\ :sub:`0,2`
    - ...
    - ...
    - ...
  * - :cspan:`5` ...
  * - :cspan:`5` Infrared Data
  * - :cspan:`5` ...
  * - ...
    - ...
    - Ir\ :sub:`n-1,n-3`
    - Ir\ :sub:`n-1,n-2`
    - Ir\ :sub:`n-1,n-1`
  * - Depth\ :sub:`0,0`
    - Depth\ :sub:`0,1`
    - Depth\ :sub:`0,2`
    - ...
    - ...
    - ...
  * - :cspan:`5` ...
```

```
* - :cspan:`5` Depth Data
* - :cspan:`5` ...
* - ...
  - ...
  - ...
  - Depth\ :sub:`n-1,n-3`
  - Depth\ :sub:`n-1,n-2`
  - Depth\ :sub:`n-1,n-1`
```