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*

Unknown interpreted text role "ref".

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*

Unknown interpreted text role "ref".

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`
```