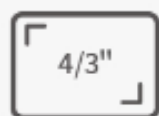




First pictures with ASI camera



Sensor
IMX492



4/3"
19.1×13.00mm



Resolution
8288×5644



ADC
12bit



Read noise
1.3-2.6 e



Cooling Temp
35°C



DDR3 Buffer
256MB



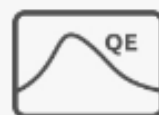
USB
3.0



FPS
5.7



Full well
14.4Ke



QE
≈90%



Pixel Size
2.3μm



Camera

[Dropdown menu]



Resolution [Dropdown menu]

Gain L [Dropdown menu]

Exposure(s) 1 [Dropdown menu]

Bin [Dropdown menu]

☐ Cooler 0 C [Dropdown menu]

Image

Preview Capture



Single

Continuous

Path /home/rridolfi/.local/share/ASIIImg



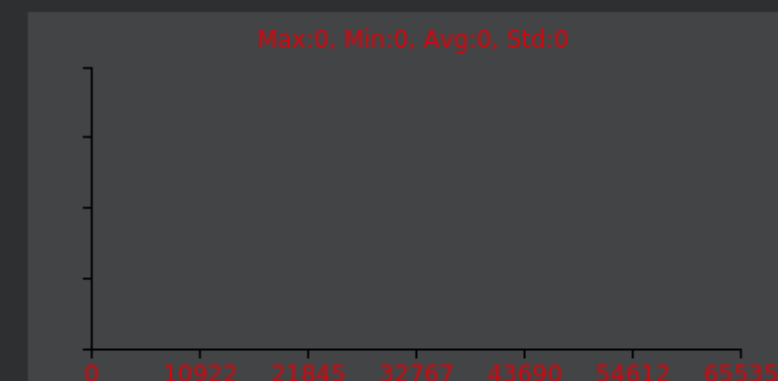
Hist

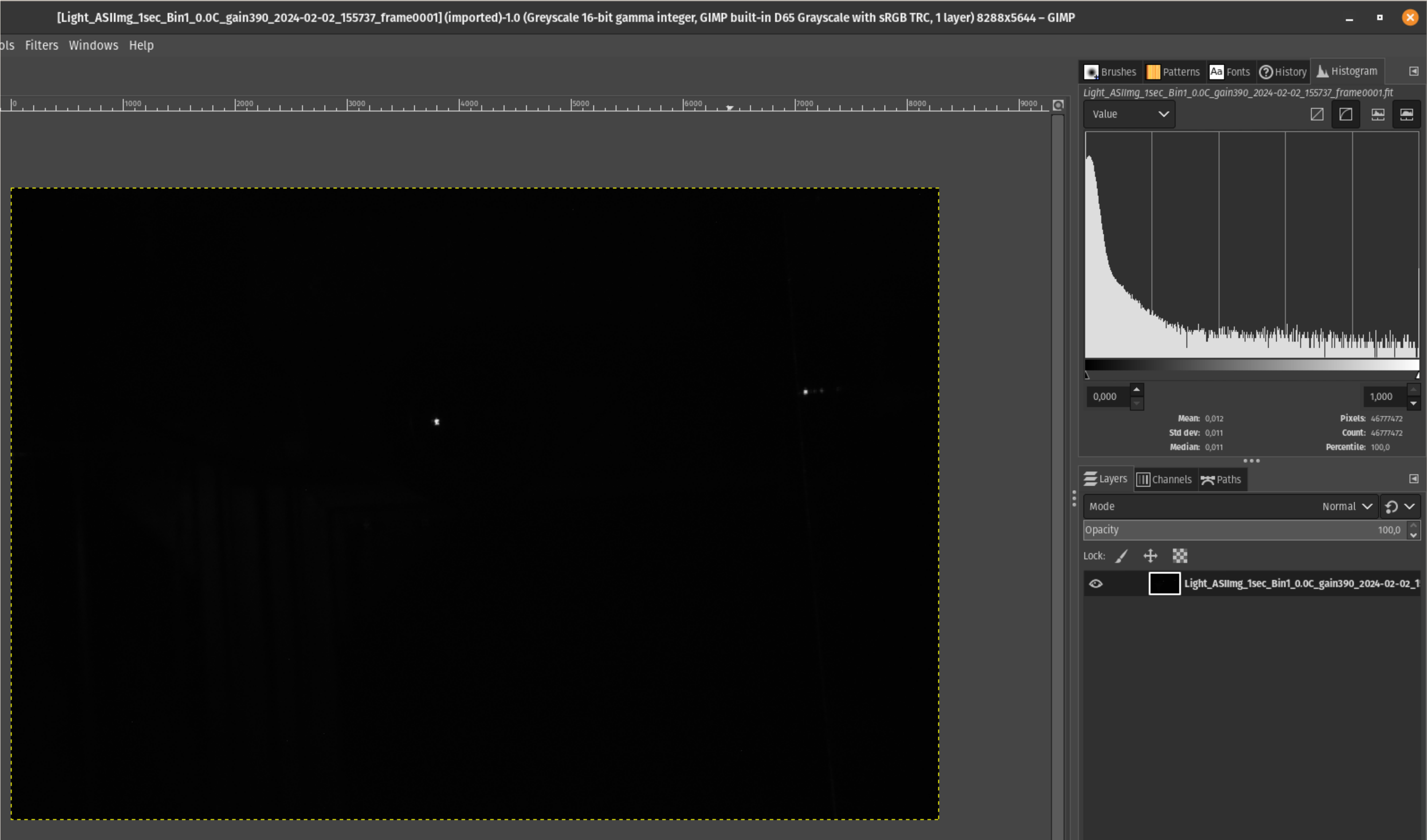
Auto

Reset



Max:0, Min:0, Avg:0, Std:0






[Light_ASIIimg_1sec_Bin1_0.0C_gain120_2024-02-01_173145_frame0002](imported)-1.0 (Greyscale 16-bit gamma integer, GIMP built-in D65 Grayscale with sRGB TRC, 1 layer) 8288x5644 – GIMP

lsFiltersWindowsHelp

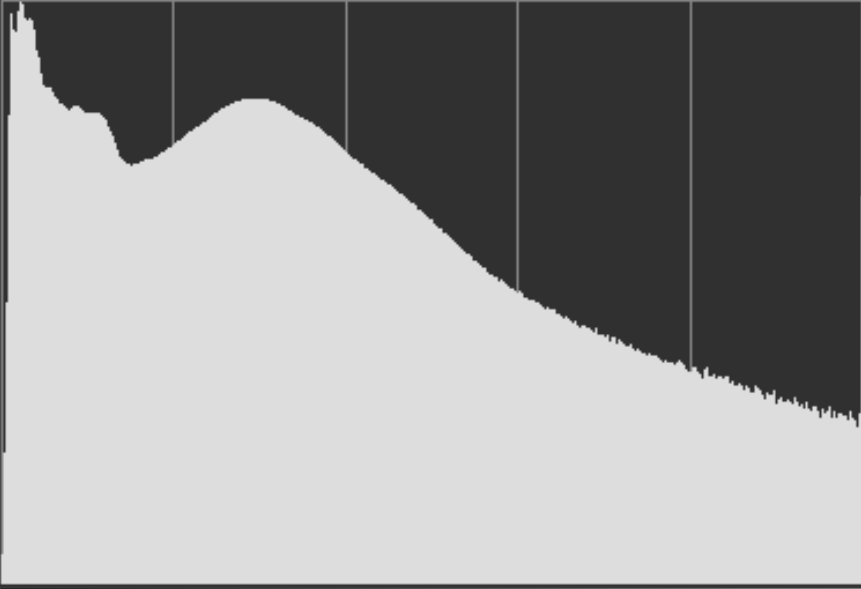
0100020003000400050006000700080009000



BrushesPatternsFontsHistoryHistogram

Light_ASIIimg_1sec_Bin1_0.0C_gain120_2024-02-01_173145_frame0002.fit

Value



0,0001,000

Mean: 0,138Std dev: 0,139Median: 0,057

Pixels: 46777472Count: 46777472Percentile: 100,0

LayersChannelsPaths

ModeNormal

Opacity100,0

Lock: [Icons]

Light_ASIIimg_1sec_Bin1_0.0C_gain120_2024-02-01_173145_frame0002.fit

```
[1]: import cv2
      from glob import glob
      import matplotlib.pyplot as plt
      from astropy.visualization import astropy_mpl_style

      from astropy.utils.data import get_pkg_data_filename
      from astropy.io import fits
```

```
[7]: img_paths = sorted(glob("/home/rridolfi/Downloads/*.fit"))[:10]
      print(img_paths)

['/home/rridolfi/Downloads/Bias_ASIIImg_10sec_Bin1_-11.1C_gain390_2024-02-02_161821_frame0006.fit', '/home/rridolfi/Downloads/Dark_ASIIImg_1s
ec_Bin1_0.0C_gain390_2024-02-02_154931_frame0014.fit', '/home/rridolfi/Downloads/Dark_ASIIImg_1sec_Bin1_0.0C_gain390_2024-02-02_154945_frame
0016 (1).fit', '/home/rridolfi/Downloads/Dark_ASIIImg_1sec_Bin1_0.0C_gain390_2024-02-02_154945_frame0016.fit', '/home/rridolfi/Downloads/Lig
ht_ASIIImg_0.01sec_Bin1_7.5C_gain390_2024-02-01_190119_frame0002.fit', '/home/rridolfi/Downloads/Light_ASIIImg_0.5sec_Bin1_0.0C_gain0_2024-01
-31_161456_frame0003.fit', '/home/rridolfi/Downloads/Light_ASIIImg_0.5sec_Bin1_0.0C_gain390_2024-01-31_151548_frame0008.fit', '/home/rridolf
i/Downloads/Light_ASIIImg_0sec_Bin1_-0.8C_gain390_2024-01-31_151142_frame0009.fit', '/home/rridolfi/Downloads/Light_ASIIImg_10sec_Bin1_-11.1C
_gain390_2024-02-02_161556_frame0007.fit', '/home/rridolfi/Downloads/Light_ASIIImg_10sec_Bin1_-11.1C_gain390_2024-02-02_161644_frame0010.fi
t']
```

```
[8]: background = get_pkg_data_filename(img_paths[5])
      bk_data = fits.getdata(background, ext = 0)

      bk_data = bk_data

      plt.figure()
      plt.imshow(bk_data, cmap="gray")
      plt.colorbar()
      plt.show()
```

