

DSOP FitsViewer Manual

- After installing DSOP FitsViewer , you can use DSOP FitsViewer as default application opening FITS file as below.

1. Right click FITS file
2. Select "Open with"
3. Select DSOP FitsViewer and click "Always"

- If set sa default application for FITS , double click FITS file and DSOP FitsViewer is launched as below.

You can also open FITS file by launching DSOP FitsViewer from Program List of Windows , and click "Open Folder" or "Open Fits File" button.

The screenshot displays the DSOP FitsViewer application window. The interface is divided into several sections:

- File List (1):** A table listing FITS files with columns for file name, target, gain, exposure, and filter. The files listed are all from the 'orion_belt' target.
- Histogram (3):** A plot showing the distribution of pixel intensities. Below the plot, the minimum, center, and maximum values are displayed as 1536/2464/4736. The stretch mode is set to 'Auto'.
- Fits Header (4):** A table showing the FITS header information.

file name	target	gain	exposure	filter
orion_belt_20250205_234710_00001_Ha.fits	orion_belt	300	300	Ha
orion_belt_20250205_235214_00002_Ha.fits	orion_belt	300	300	Ha
orion_belt_20250205_235717_00003_Ha.fits	orion_belt	300	300	Ha
orion_belt_20250206_000220_00004_Ha.fits	orion_belt	300	300	Ha
orion_belt_20250206_000758_00005_Ha.fits	orion_belt	300	300	Ha
orion_belt_20250206_001300_00006_Ha.fits	orion_belt	300	300	Ha
orion_belt_20250206_001803_00007_Ha.fits	orion_belt	300	300	Ha
orion_belt_20250206_002306_00008_Ha.fits	orion_belt	300	300	Ha
orion_belt_20250206_002847_00009_Ha.fits	orion_belt	300	300	Ha
orion_belt_20250206_003349_00010_Ha.fits	orion_belt	300	300	Ha
orion_belt_20250206_003851_00011_Ha.fits	orion_belt	300	300	Ha
orion_belt_20250206_004353_00012_Ha.fits	orion_belt	300	300	Ha

item	value
SIMPLE	T
BITPIX	16
NAXIS	2
NAXIS1	4144
NAXIS2	2822

1. FITS file list is displayed.

If double click FITS file or click "Open Fits File" button , all FITS files in same folder as selected FITS are displayed and show selected FITS image is displayed in area 2.

If click "Open Folder" , all FITS files in selected folder are displayed and show first FITS image is displayed in area 2.

2. Selected image in file list is shown.

By right click and select zoom ratio,image can be zoom in/out, and by dragging image move to dragged orientation.

Zoom ratio and position viewing is not changed by selecting another image,so it's easy to compare each images.

3. Histogram of selected image is shown.

By default, brightness of image is automatically set based on histogram.

You can change brightness manually by selecting "Manual" and moving vertical bars in histogram.

If you want to image with raw brightness of image, select "None".

By selecting "Auto", brightness is automatically set as same as default.

4. FITS header keys and values are displayed.