



M57 - Ring Nebula

Showing stars which are missing in Digitized Sky Survey (Second Survey - Red)

4/23/2003

Bowling Green, Ohio

Conditions: rural, slight light pollution, no wind, slight turbulence, no moon, no dew, low 40's

Meade LX-90 8 inch sct in polar alignment mode:

No optical accessories

StellaCam-EX:

2X Zoom

128X sense-up, gain at 7 out of 9

Capture off video tape onto HP ze5185 notebook as 297 image sequence @ 1 per second using Video Capture Essentials with brightness at 45%, contrast at 100% and no interleaving.

Make "M57_042303_0_avg297autoregx_FFcorV2chr_cln_moi_proc1"

Registax Processing:

Average 297 images - auto alignment and stacking

AstroArt 2.0 Processing:

Make "Chris" flatfield and Gauss smooth with sigma = 15

Divide original by flatfield

Adobe Photo-deluxe Home Edition 4.0 Processing:

Clone out hot pixels and border of image

Moire removal 90 degrees, smooth 10

AstroArt 2.0 Processing:

Offset +5

Maximum entropy deconvolution PSF and 20 iterations with no sky cut.

Convolution - Gaussian with sigma = 2, level = 20 three times

Convolution - Gaussian with sigma = 2, level = 25

Convolution - Gaussian with sigma = 2, level = 30

Redo "Chris" flatfield and subtract

Unsharp mask 1, 2 adaptive

Convolution - Gaussian with sigma = 2, level = 35

Histogram is 4 min, 297 max, log 2

Gauss smooth with sigma = 0.7

Microsoft Word Processing: Brightness 53%, Contrast 53%

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