



M27 – Dumbbell Nebula

5/21/2003

Bowling Green, Ohio

Conditions: rural, clear with chemtrails, slight light pollution, faint breeze, no moon, heavy dew later, low 50's

Meade LX-90 8 inch sct in polar alignment mode

3.3 Focal reducer

StellaCam-EX:

128X sense-up, gain at 5 out of 9

2X Zoom

Capture off video tape onto HP ze5185 notebook as 291 image sequence @ 1 per two seconds using Video Capture Essentials with brightness at 50%, contrast at 100% and no interleaving.

Make "M27_052103_0_avg291autoregx_FFcorV2chr_cln_moi_proc1"

Registax Processing:

Average 291 images - auto alignment and stacking - quality 88%, diff 100%

AstroArt 2.0 Processing:

Make "Chris" flat field and Gauss smooth with sigma = 15

Subtract flat field from original

Adobe Photo Deluxe Home Edition 4.0 Processing:

Clone out hot pixels and bar artifact

Moire removal at 90 degrees with smooth of 10

Moire removal at 0 degrees with smooth of 10

AstroArt 2.0 Processing:

Offset +5

Maximum entropy deconvolution of 5 iterations with no cut sky

Gauss smooth with sigma = 0.7

(Convolution, Gauss with sigma = 2, level = 15) X 2

Redo "Chris" flat field and subtract it from image

Unsharp mask 1.2, 2.5, adaptive

Convolution, Gauss with sigma = 2, level = 15

Histogram: 9 minimum, 255 maximum, log 6 clicks from linear

Gauss smooth with sigma = 0.7

Microsoft Photo Editor Processing:

Crop

Brightness 55%, contrast 55%

Larry Low – Astrophotomist

5/25/2003