



Orion Nebula (M42 and M43)

1/1/2004

Location: 3161 Winston, Toledo, Ohio (Outside back door)

Conditions: residential, mid 30's, no wind, moderate turbulence, moon(set), sky clear.

Telescope: Meade LX-90 8 inch SCT in polar alignment mode: Protective image back UV filter, right angle prism

Camera: Canon Digital Rebel Camera:

At prime focus of SCT.

Capture direct to USB port on HP ze5185 notebook using ZoomBrowser EX in "Remote Shooting" mode and manual remote trigger for "bulb"

Original Frame numbers: OrionNebula_22(3072x2048),23(1536x1024),25(2048x1360),27(2048x1360),29(2048x1360),31(2048x1360)

Resized all to 800X533 with corresponding frame numbers 17,18,20,22,24,26 using batch processing in Adobe PhotoShop Elements 2.0

Exposures: All at ISO1600 // Corresponding frame times in seconds: 30, 20, 120, 118, 137, 122

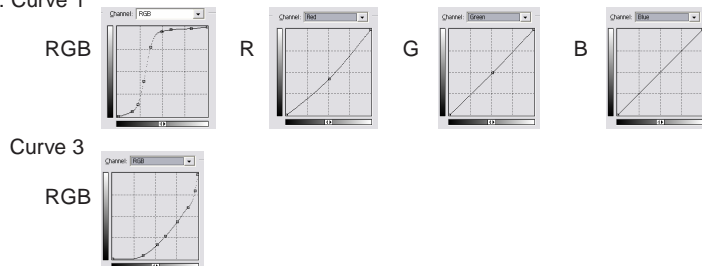
White balance auto, con +1, shrp +1, col sat +1, col tone normal

First two shot for good exposure of Trapezium area, last four to pick up nebulosity.

Averaged these 6 frames with Registax which exposed the Trapezium area very nicely automatically.

Make "OrionNebula_010104_DIGREB_FRrz_avg6aregx_crv1crv3proc2_mirr200um1504NIY70g77":

Photoshop 6.0: Curve 1



AstroArt V3.0:

Flip Horizontal // Crop off summation difference edges

Offset -40 (bkgnd was 70) // Gauss smooth sigma = 0.8

Histogram: R 35-213, B 30, V 0:220 log10

PhotoShopElements 3.0: Resize 200%

Unsharp mask 150, 4

Neat Image Standard except Y=70%

Levels, Gamma = 0.77

Microsoft Word: Brt=52%, Con=48%

Larry Low – Astrophotunist 1/20/2004 with PSE changes 5/27/2005-II