



Raw Data

## Jupiter with Red Spot

12/31/2003 (am)

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

Conditions: residential, 22 deg, no wind, atmospheric stability 5/10, frost, moon set, sky clear with wispy clouds passing.

Telescope: Meade LX-90 8 inch SCT in polar alignment mode:  
UV filter on back, 2X Barlow

Camera: Meade Lunar-Planetary Imager (LPI):  
Edge enhancement, hard during acquisition.

First image:

Shutter: 0.088 sec // Gain: 100 // Offset: 34 // Histogram 0-92, set 0-255, 172.

Used tracking of images and auto combination with min quality 50% up to 80% after 65 imgs, and 10 eval. images.

Set of 76 images (in 327 secs) = (JupiterRedSpot1)

Second image:

Shutter: 0.088 sec // Gain: 16 // Offset: 31 // Histogram 0-59, set 0-168, 121.

Used tracking of images and auto combination with min quality 70% up to 90% after 112 imgs up to 99% after 129 imgs and 10 eval. images.

Set of 196 images (in 438 secs) = (JupiterRedSpot2)

Capture direct to USB port on HP ze5185 notebook using Meade Autostar Suite.

Make "JupiterRedSpot\_123103\_LPI\_avg272img\_Hedgenh\_avg2aregx\_proc6":

Registax: These two sets aligned and averaged in Registax.

AstroArt V3.01:

Rotate 95 degrees // Crop // Resize 200%

Unsharp mask 3, 6, unadaptive

Histogram: R=-74:296 B=0 V=0:297 exp 10 clicks from linear

Gauss smooth sigma = 2.0

Unsharp mask 1.5, 3, unadaptive

Gauss smooth sigma = 1.5

Col. Sat. 55% from 50%

Photoshop 6: Motion blur 0 degrees, 8 pixels

AstroArt V3.01

Unsharp mask 1.2, 2.4, unadaptive

Gauss smooth sigma = 1.0

Microsoft Word:

Brightness 52%, Contrast 48%

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1/26/2004