



Raw Data

Saturn

12/31/2003 (pm)

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

Conditions: residential, mid 30's, no wind, atmospheric stability 8/10, no frost, moon past 1st quarter but in west, sky clear, Saturn directly overhead.

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

Camera: Meade Lunar-Planetary Imager (LPI):

Edge enhancement, hard during acquisition.

Shutter: 0.5 sec // Gain: 48 // Offset: 29 // Histogram 0-88, set 0-225, 167.

Used tracking of images and auto combination with min quality 99% and 10 eval. images.

First set of 301 images (in 608 secs) – (Saturn2)

Second set of 101 images (in 186 secs) – (Saturn6)

Third set of 102 images (in 118 secs) – (Saturn 7)

Fourth set of 107 images (in 182 secs) – (Saturn 8)

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

Make "Saturn_123103_LPI_avg611img_avg4aregx_proc1":

Registax: These four sets aligned and averaged in Registax.

AstroArt V3.01:

Crop // Resize 200%

Gauss smooth sigma = 1.0

Histogram: R=0:253 B=0 V=0"256 exp 20 clicks from linear

Unsharp mask 2, 4, unadaptive

Histogram: R=-56:282 B=0 V=32:271 exp 6 clicks from linear

Unsharp mask 1.5, 2, unadaptive

Col. Sat. 55% from 50%

Gauss smooth sigma = 0.9

Microsoft Word:

Brightness 52%, Contrast 48%

Larry Low – Astrophotunist

1/25/2004