



Raw Data

## Saturn showing the “C” Ring (Crepe ring or Dusky ring)

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 1<sup>st</sup> 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: 0.707 sec // Gain: 48 // Offset: 59 // Histogram 24-196, set 0-255, 327.

First set of 13 images (in 343 secs) – (Saturn9):

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

Last set of 70 images (in 246 secs) – (Saturn10):

Used tracking of images and auto combination with min quality 70% and 10 eval. images.

At 46 images reset min quality to 80% until end of run.

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

Make “Saturn\_123103\_LPI\_avg83img\_avg2aregx\_proc2”:

Registax: These two sets aligned and averaged in Registax.

AstroArt V3.01:

Crop // Resize 200%

Gauss smooth sigma = 1.0 // Unsharp mask 3.5, 3.5, unadaptive

Convolution Gauss psf with sigma = 2, level = 50

Offset –35

Histogram: R=-19:261 B=8 V=0:284 log 5 clicks from linear

Gauss smooth sigma = 1.0

Col. Sat. 70% from 50%

Offset –10 // Color bal. Blue 50/45

Microsoft Word:

Brightness 52%, Contrast 48%

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1/25/2004