

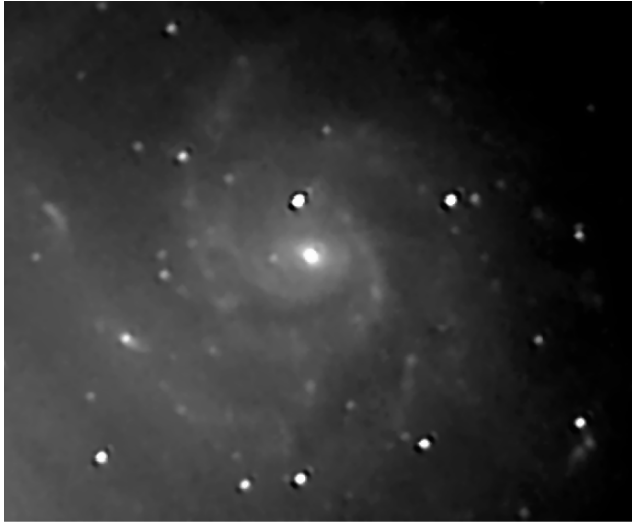
Single Frame



225 Averaged  
Frames



225 Averaged  
Frames  
Processed



DSS  
15x15 arc min



## M101

4/09/2003

Toledo, Ohio

Conditions: residential, slight light pollution, no wind, moderate turbulence, first quarter moon, light frost, mid 30's

Meade LX-90 8 inch sct:

Polar alignment mode

3.3 focal reducer

StellaCam-EX:

128X sense-up, gain at 7 out of 9

Capture off video tape onto HP ze5185 notebook as 239 image sequence @ 1 per second using Video Capture Essentials with brightness at 30%, contrast at 100% and no interleaving.

"Processing 4"

AstroArt 2.0 Processing:

Average of 225 images using manual selection

Save as BMP file

Adobe Photo-deluxe Home Edition 4.0 Processing:

Rotate 65 deg ccw (to match DDS image)

Crop

Resize

Clone out hot pixels

Unsharp mask: amount 142%, radius 160, threshold 0

Unsharp mask: amount 19%, radius 250, threshold 4

Despeckle

Reduce graininess 20

Larry Low – Astrophotonomist

4/14/2003