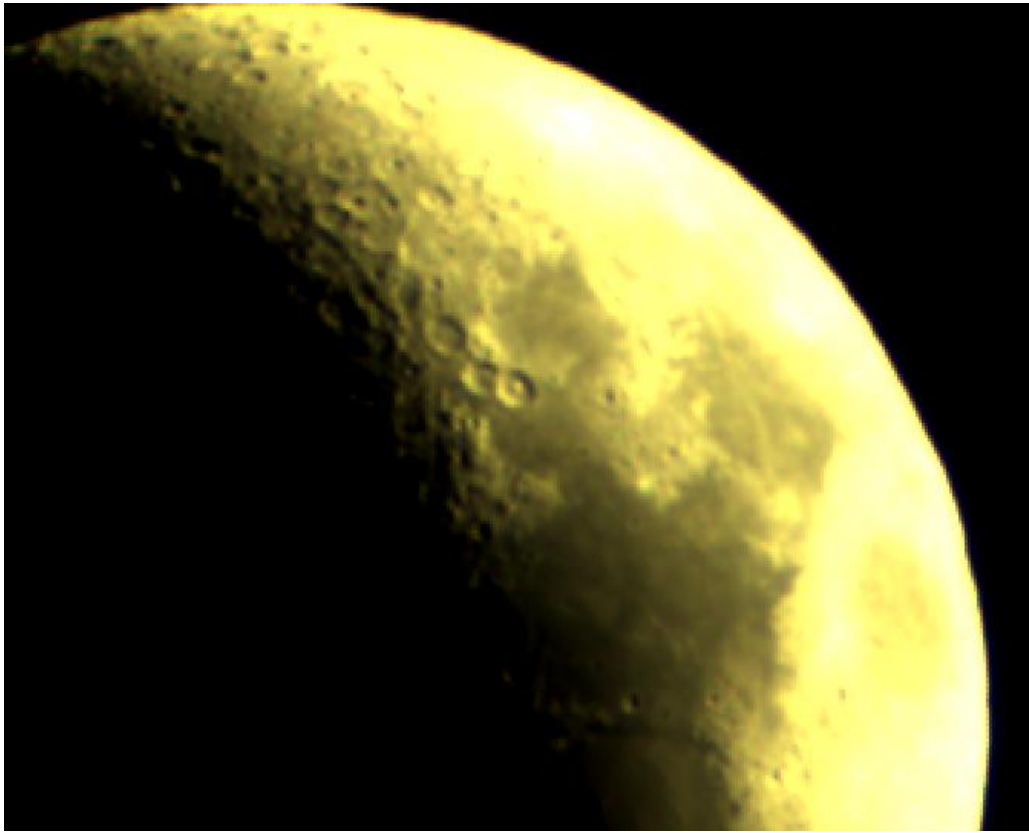


Start with the file “

1. Start with “Article 8 – Saturn imaging with Meade DSI III color camera
2. Set the telescope in “Home Position” and “Go To” the Moon.
3. Put 26mm Eyepieces with Moon filter (ND96) in “90 eyepiece holder”, rotate the focus knob and use arrow keys to center the Moon in the telescope’s field of view
4. Go to Setup menu: Telescope/Tracing Rate/Lunar. This options set a properly track over a long observing session.
5. Enjoy the view. It is 405 years since Gallilei discovered craters on the Moon’s surface.
6. Next, we want to take a photo of Moon. Put DSI in “90 eyepiece holder” and connect camera to USB port (Article 8 – Saturn imaging with Meade DSI III color camera)
7. Create a folder on your hard drive (C:\Metochi Observations 03062014). The images will be saved in this folder.
8. Load Autostar Suite and choose Image/DSI Imaging from the Menu.
9. Click on the Live tab (DSI III (page 13 in manual))
10. Click on the “Auto Exp” button and wait a minute (wait for Abortion button changes to Auto Exp). The program will find a good exposure automatically.
11. Look at Live Image and rotate the focus knob. If you look for details in the bright area, you can manually adjust the exposure time.
12. You can regulate Auto Contrast and Color Balance (Auto WB)
13. You can adjust the intensity on the dark part of the image with Shadow Enhance.
14. Go to the Image Process box and select Moon
15. Click the Save Options button and select file type “Fits 3P” (Unprocessed imager frame, No color extraction, Dark subtracted if enabled) and take a single shot. Two files are created (16 324kB and 5 445kB). The files are compatible with MaxIm DL
16. Click Start. The program will begin to take images. The files are stored in the created directory.
17. Four pictures of the Moon 3. Julie 2014 at 22:23 o’clock. Moon phase is 33,9%



Filename: Moon0004 no 1.jpg
Compression Type: Quality 25%
ExpTime: 0,01131s
Time: 19:23:21 UT
Date: 03:07:2014
Auto Stretch in MaxIm
Zoom:100%



Filename: Moon0004 no 1.jpg
Compression Type: Quality 25%
ExpTime: 0,01131s
Time: 19:23:21 UT
Date: 03:07:2014
Auto Stretch in MaxIm
Zoom:200%



Filename: Moon0005 no 2.jpg
Compression Type: Quality 25%
ExpTime: 0,01131s
Time: 19:24:18 UT
Date: 03:07:2014
Auto Stretch in MaxIm
Zoom:100%



Filename: Moon0003 no 3.jpg
Compression Type: Quality 25%
ExpTime: 0,01131s
Time: 19:22:56 UT
Date: 03:07:2014
Auto Stretch in MaxIm
Zoom:100%



Filename: Moon0001 no 4.jpg
Compression Type: Quality 25%
ExpTime: 0,01131s
Time: 19:19:53 UT
Date: 03:07:2014
Auto Stretch in MaxIm
Zoom:100%

18. Two pictures of the Saturn 3. Julie 2014 at 23:59 o'clock.



The file "Planet 0016.bmp" save as "Planet 0016 no 2.jpg (25%)



The file "Planet 0010.bmp" saved as "Planet 0010 no 1.jpg (25%)

We need to get a better result next time, read "[Observing exercise 3 - Web photo of Saturn with GIMP](#)". We need to change the file format from "bmp" to "Fits 3P" and increase the magnification by a factor 2 (Barlow lens 2x). We have another option: we can wait for the new telescope LX 90.



Saturn

ExpTime 0,0625 s

Time 20:51:41 UT

Date 04:07: 2014

ETX 70

Barlow 2x

C:\MO 04072014\Planet 0002 no 2.jpg (40%)

AutoStrech in MaxIm