

THE LUNASCAN PROJECT - MOONWATCH - TEAM REPORT SEPTEMBER 30, 2011

TARGET: SECTION 26/37 MARE CRISIUM

MISSION PLAN:

Test LPS unit/Celestron 80GT with CMOS camera, WWV transmitter/receiver.

- Camera 1 mini finder switchable to CCD camera
- Camera 2 Internal
- Camera 3 LPS/CMOS/LPI / Skyglobe graphics
- Camera 4 HPS/CMOS/SSI / VMA graphics



Date incorrect on Quad. S/b 2011 09 30

CAMERAS:

CAMERA ONE POSITION ON QUAD

* Finder: mini cam

CAMERA TWO POSITION

* Internal camera

CAMERA THREE POSITION

* LPS Unit

OPTICS

Celestron NexStar 80GT, 80 mm (3.1") 400 mm f/l f/5 focal ratio; aperture video data recorder on Quad VHS1 DVR1 Sony only.

Camera used is Meade LPI/CMOs. (Meade Lunar Planetary Imager / complementary metal oxide semiconductor)

OPTICS

Celestron, 8" 2032 mm/ prime focus

Resolution 0.68 arc/sec

LPI equiv 6 mm, (90x (w/Barlow 150x)

VGA resolution (640x480) color CMOS chip

30 fps

Switchable to SKYGLOBE graphics

Digital to Analog Converter 2; TEP-100 Elite Pro II, aperture video VHS2

CAMERA FOUR POSITION

* HPS Unit 3:

CMOS/SSI Camera, (Celestron Neximage Solar System Imager / complementary metal oxide semiconductor)

OPTICS

Celestron, 8" 2032 mm/ prime focus (SSI equiv 5 mm, w/Barlow 150x)

VGA resolution (640x480) color ¼" CMOS chip

30 fps

Compression 1420

Digital to Analog Converter 1; TEP-100 Elite Pro, aperture video DVR2

Switchable to

* VMA (Virtual Moon Atlas) graphics

CONFIG

Celestron C-8, no diagonal, hand control, battery eliminator on drive

Resolution 0.68 arcsec / lunar target at 0.5 degree/2160 miles wide = 0.23 miles or 1214'.



19-23-30 Mare Crisium on SSI/CMOS

REPORT NOTES

Analysis pending

Recordings on

VHS1 Quad

DVR1

DVR2

Date on Quad was incorrect. Times stamped at 2011 10/30 s/b 2011 09/30

LPI unit did not focus so was not used.

Imaging on Camera 4 was good

WWV signal on DVR2 was good

19:45:00 Ray west of Crisium

