

THE LUNASCAN PROJECT - MOONWATCH - TEAM REPORT SEPTEMBER 7, 2011

TARGET: SECTION 53 BULLIALDUS

MISSION PLAN:

Final shakedown and plan for official scanning sessions. Test of temporary solution to WWV feed via Sennheiser from home-based short wave receiver with new sound board to see if recorders pick up adequate signal. Test use of DA Converter Module. Test use two CMOS cameras with binocular eyepiece holder. Test new VHS2 recorder from CMOS LPI camera.

- Camera 1 finder, mini
- Camera 2 internal
- Camera 3 CMOS/LPI/ skyglobe graphics
- Camera 4 CMOS/SSI/ vma graphics



QUAD:

CAMERA ONE POSITION

On video switching

Finder: mini cam

OR

HPS Unit 1: CCD, GBC-400 (charge coupled device)

OPTICS

Celestron, 8" 2032 mm / 26 mm plossyl in adjustable T-C adaptor; aperture video DVR1 Sony

CAMERA TWO POSITION

Internal

CAMERA THREE POSITION

HPS Unit 2: LPI (Meade Lunar Planetary Imager) / CMOS (complementary metal oxide semiconductor)

OPTICS

Celestron, 8" 2032 mm/ prime focus equiv 6 mm, 90x (w/Barlow 150x)

VGA resolution (640x480) color CMOS chip

30 fps

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

OR

GRAPHICS

SKYGLOBE star & planet position software

CAMERA FOUR POSITION

HPS Unit 3: SSI (Celestron Solar System Imager) / CMOS

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

OR

GRAPHICS

VMA (Virtual Moon Atlas)

No LPS or MPS units available

CONFIG

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

REPORT NOTES

BOS 7:30 p.m. /EOS 9:30 p.m.

Quad clock was incorrect during scan/ battery needs replacing

BOS #2 9:30 p.m. / EOS 10:50 p.m.

Quad clock had been reset

Atomic clock was off a time zone so time on screen is off 1 hour

Frame rate on PIC was correctly set at 30 fps

Screen res was incorrectly set at 480x320, s/b 640x480.

Dust mites caused termination of session 2 about a half hour earlier than scheduled.

Target areas scanned were Bullialdus & Copernicus

Most of this session was "filmed" at full screen setting w/o binoc viewer..

Section 53 Bullialdus updated

[Directory](#) Section 53 - BULLIALDUS. Western Part Of Mare Nubium

Note: Ranger 7 impact probe, 31 July 1964, shows Bullialdus flyover

http://www.youtube.com/watch?v=i9y5d0l_O3Y