

Preliminary report of spectral reflectance measurement for lunar geology by the senior high school students.

Atsushi Miyashita[1], Seikei Metrology and Astronomy Club Miyashita Atsushi

[1] Seikei H. S.

<http://www.seikei.ac.jp/obs/>

By the senior high school students, TiO₂ chemical distribution maps of lunar were taken using a compact multi-band telescope system.

To make a small multi-band telescope, following apparatuses were assembled:

- (a) Astronomical telescope (Takahashi FS-152 D=150mm, F8) on equatorial mount (ERDE optics, GX-1).
- (b) Cooling CCD camera and controller (SBIC ST-9E and CFW-8A).
- (c) Band-pass filters (Kenko BP-42, BP-75).

Lunar images were processed to make chemical distribution maps by the method of Saeki et al. (2000).

Using above system, the high-school astronomical club, who are not familiar with remote sensing, can easily be initiated into spectroscopic lunar geology.