

The advantage of the Multiband Imager for the SELENE Mission: as a data source for the mineralogical study of the lunar crust

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The Lunar Imager/SpectroMeter (LISM) is an instrument being developed for the SELENE project that will be launched in 2005. LISM consists of the three subsystems, the Terrain Camera (TC), Multiband Imager (MI), and Spectral Profiler (SP). Those three systems share some components and electronics. MI is a high-resolution multiband imaging instrument

MI will obtain the lunar global mapping of mineral distribution in nine bands to understand the origin and evolution of the Moon. One of the most important purposes of the MI observation is a study of the lunar crust. Biggest advantage of the LISM data is its capability of combination of topographic (TC), spectral mapping (MI) and hyper-spectral (SP) data to understand precise lunar surface mineralogy and chemical composition.