

**STEREO-MAPPING OF THE ENTIRE MOON WITH THE KAGUYA (SELENE)
TERRAIN CAMERA OF 10 METER RESOLUTION ON**

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Japan is investigating the entire Moon by "KAGUYA" (SELENE: SELEnological and ENgineering Explorer) that was launched on September 14, 2007. KAGUYA is a polar orbiter with nominal altitude of 100km and collecting the lunar global data in nominal mission period of one year with fifteen mission instruments. Most important products of the KAGUYA are high-resolution maps with digital terrain models (DTMs) of the entire Moon by the Terrain Camera (TC). The TC is a push-broom imagery system that provides stereo-pair data with two telescopes. The spatial resolution of the TC is 10m from the KAGUYA's nominal altitude. The slant angles are $\pm 15^\circ$ from the nadir vector; accordingly, the base-to-height ratio of TC is 0.57. Thus, the geometrical height resolution of 17m is simply calculated by dividing the spatial resolution by the base-to-height ratio. The potential accuracy of DTMs from the TC data is probably much better. The TC global data will be crucial information to understand the Moon.