

System Design of the Multi-Spectral Camera

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KOMPSAT-2 is being developed to the goal launch in 2004. MSC (Multi-Spectral Camera) is the only payload of KOMPSAT-2, which has the ground sample distance of 1m by PAN (panchromatic) channel and 4m by MS (Multi-Spectral) channel at the height of 685 Km. The system design of the MSC was completed and the configuration has been fixed. The swath width is greater or equals to 15 Km. The diameter of the telescope is 60cm and focal ratios are 15 and 3.75 for PAN and MS, respectively. MS channel has 4 bands ranging optical and near-IR region. Radiometric resolution is 10 bits and the downlink data rate is 320Mbps. There is also on-board storage unit which has the capacity of 128Gbit at BOL (Beginning Of Life). In this paper, the system design of the MSC is presented.