

EARTH OBSERVATION SYMPOSIUM (B1)
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RESEARCH ON THE HIGH RESOLUTION STEREO MAPPING CAMERA FOR ZIYUAN III
SATELLITE

Abstract

This paper has briefly introduced the development and on-orbit operation of the first Chinese civil high resolution stereo mapping satellite, ZIYUAN III satellite. As the most important optical payload of the satellite, the qualifications and implementation of critical techniques of the high resolution stereo mapping camera have been discussed. The design simulation computation results, ground simulation test results, ground test results, and on-orbit test results have been given and compared. Conclusions indicate that the design of the camera be rational, each qualification meet the requirement of mapping application, and part of qualifications be better than cameras with similar resolution.