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# THE REALIZATION OF 1:10,000 SCALE OPTICAL STEREO MAPPING SATELLITE GAOFEN-7

**Abstract**

Gaofen-7 is China's first submeter resolution optical transmission satellite for stereo mapping. Launched by CZ-4B carrier rocket from Taiyuan launch center on November 3rd, 2019. The satellite carries a Dual-Line-Array Camera and a Laser Altimeter, it is capable of obtaining high-resolution stereo mapping data and high-precision laser altimetry data, which can be used for 1:10,000 scale stereo mapping production and the larger scale basic products updating. This paper introduces the technical characteristics and data application of Gaofen-7 satellite.