

GF-7 SATELLITE

65 cm, Bi-stereoscopic, Optical, Laser Altimeter

GF-7 (short for Gaofen-7) was launched on November 3, 2019. It is a very high-resolution optical imaging satellite, and collects bi-stereoscopic and panchromatic-multispectral imagery. It is also equipped one laser altimeter. The satellite collects overlap images and enables 1:10,000-scale stereoscopic mapping. Its laser altimeter provides great supports in mapping difficult geographic terrains. The satellite mainly applies in monitoring land resources, basic mapping, and investigating globally geographic features.

Technical Specifications

| Sensor bands Resolution (at nadir) | Panchromatic, blue, green, red and near-infrared Panchromatic: 80 cm (front camera), 65 cm (rear camera); |
|-------------------------------------|--|
| Locational accuracy | multi-spectral: 2.6 m (rear camera) 20 m CE90 (w/o GCPs) |
| Dynamic range at imaging | 11 bits |
| Swath width (at nadir) | 20 km (at nadir) |
| Revisit capacity | 5 days |







