



Dabusun Lake, Qinghai China | Oct 13, 2021 | GF-4

GF-4 SATELLITE

GEO orbit, Optical, Regional Observation, MR, Rapid Revisit

GF-4 (short for GaoFen-4) is a geosynchronous orbit remote sensing satellite and equipped with a staring camera provided with VNIR and MWIR bands. It observes China and the surrounding area by pointing control. The satellite provides fast, reliable and stable optical data to support disaster response, forestry, earthquake and meteorology applications, and supplements an advanced technology for alerting natural disasters, monitoring wild fires or typhoons.

Technical Specifications

Mission life	8 years	
Launch time	December 29, 2015	
Orbit	36,000 km altitude, geosynchronous, fixed point location: 105.6°E	
	VNIR	MWIR
Sensor bands	Panchromatic, blue, green, red and near-infrared	MWIR
Resolution (at nadir)	50 m CE90 (w/o GCPs)	400 m CE90 (w/o GCPs)
Dynamic range at imaging	16 bits	16 bits
Imaging modes	Focal, mobile, large-area and regional viewing	Focal, mobile, large-area and regional viewing
Coverage/shot	500 x 500 km ²	400 x 400 km ²
Revisit capacity	Minute-class	Second-class