



FAST Telescope, Guizhou Province, China | Feb 8, 2018 | GF-1

# GF-1 SATELLITES

## 4 Satellites, 2 m Resolution, Optical

GF-1 (short for GaoFen-1) constellation is composed of 4 satellites. GF-1 is equipped with two 2 m panchromatic and 8 m multispectral cameras (PMC), and four wide-field imagers (WFI) with 16 m multi-spectral resolution and a combined swath of 800 km. The satellite allows the collection in PMC and WFI modes both simultaneously and separately. GF-1B, C and D are single-camera sensors, collecting 2 m panchromatic and 8 m multispectral resolution data. When the four satellites work as a constellation, they provide massive collection efficiently, and cover the whole planet only for 11 days, revisiting at any place on the Earth on a daily base.

### Technical Specifications

Number of Satellites	4 satellites: GF-1, GF-1B, GF-1C and GF-1D		
	GF-1		GF-1B, C/D
Mission life	8 years		8 years
Weight	1060 kg		795 kg/satellite
Launch time	April 26, 2013		March 31, 2018
Orbit	Sun-synchronous, 10:30 am descending node, 645 km altitude, 98.0506° inclination angle		Sun-synchronous, 10:30 am descending node, 645 km altitude, 98.0506° inclination angle
	2 x PM Camera (PMC)	4 x Wide Field Imager (WFI)	PM Camera (PMC)
Sensor bands	Panchromatic, blue, green, red and near-infrared	Blue, green, red and near-infrared	Panchromatic, blue, green, red and near-infrared
Resolution (at nadir)	Panchromatic: 2 m, multi-spectral: 8 m	16 m	Panchromatic: 2 m, multi-spectral: 8 m
Dynamic range at imaging	10 bits		12 bits
Locational accuracy	50 m CE90 (w/o GCPs)		30 m CE90 (w/o GCPs)
Swath width (at nadir)	60 km	800 km	60 km
Revisit capacity	4 days		2 days

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