



Containers in Singapore Port | July 16, 2020 | SV-2

SUPERVIEW-2 SATELLITE

42 cm Resolution, 6 MS bands, Stereo Imaging, High Agility

SV-2 (short for SuperView-2, alias GFDM, 高分多模) is a follow-on satellite of SV-1 satellite constellation. It is a very-high-resolution optical imaging satellite. Compared with SV-1 satellites, SV-2 provides higher resolution and more spectral bands. The satellite has one panchromatic band and six multi-spectral bands. The panchromatic resolution is 42 cm and the multi-spectral resolution is 1.68 m at nadir. The imagery collection is highly agile, as the satellite allows multi-target, long-strip, multi-angle at one target, multi-strip, bi-/tri-stereo, along/not-along track collection in one single pass. The satellite is equipped with a set of synchronous monitoring atmospheric corrector to remove the effects of the atmosphere on the reflectance values of images.

Technical Specifications

Mission life	8 years	
Weight	2400 kg	
Launch time	July 3, 2020	
Orbit	Sun-synchronous, 10:30 am descending node, 643.8 km altitude, 97.96° inclination angle	
Resolution (at nadir)	Panchromatic: 42 cm; multispectral: 1.68 m	
Sensor bands	Panchromatic Blue Green Red	Red edge Near-infrared1 Near-infrared2
Swath width (at nadir)	15 km	
Dynamic range at imaging	12 bits	
Revisit capacity	1.5 days 30° off nadir	
Imaging modes	Multi-target, long-strip, multi-angle at one target, multi-strip, bi-/tri-stereo, along/not-along track collection in one single pass	
Onboard storage	≥5Tb	