



JOVI-S

High resolution SAR microsatellite

JOVI-S is a well-designed and advanced radar satellite with a resolution of 1-5 meters depending on the mode of operation. Our Spot, Strip, Scan and Dwell modes allow the JOVI-S to move quickly and easily between low-resolution and high-resolution areas of up to 50,000 square kilometers. JOVIS can collect images from areas of interest to users day and night, in any weather conditions. A satellite cluster consisting of multiple identical JOVI-S satellite will provide end users with high-resolution, short revisit times, high-quality, intelligent satellite imaging services.

Key features

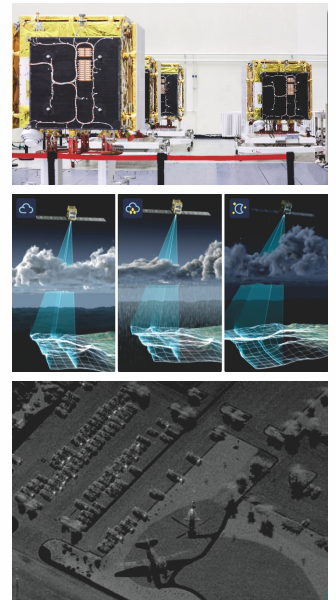
24-hours all weather

High data downlink rate, near real-time acquisition

Short revisit time

Flexible, High resolution imaging

Cost-effective

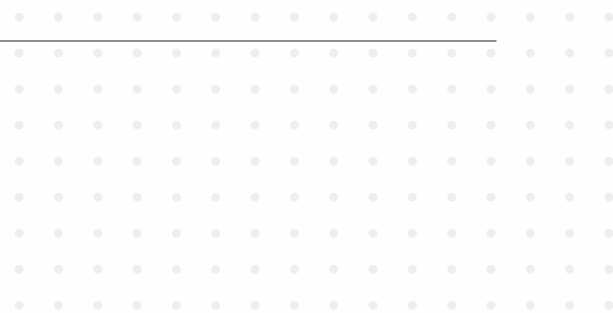


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Specifications

Operating frequency band	X-Band (Center Frequency 9.6GHz)
Polarizations	HH, VV, HV, VH
Look angle range	20°~45°
Imaging modes	Spot mode 0.5m*0.5m@5km*5km
Nominal orbit altitude	502km
Power consumption	3600W
Weight	250kg
Imaging time per orbit	3-10 min/lap (single/double lap balance)
Slide Mode	1m*1m@10km*10km
Design life	5 years



JOVI-S imaging mode

Operating Mode	Spot Mode	Slide Mode	Strip Mode
Resolution	1m×1m	3m×3m	5m×5m
Survey Bandwidth	10km(R)×10km(A)	30km	50km
System Sensitivity	≤-20dB		
Ambiguity	Azimuth Ambiguity : ≤ -21dB Range Ambiguity : ≤ -20dB		
Side-Lobe Ratio	Peak Sidelobe Ratio : ≤ -20dB Peak Sidelobe Ratio : ≤ -15dB		
Radiometric Resolution	Resolution		