



BAE Systems Satellite EO-P20-300

The BAE Systems EO-P20-300 is a cost optimised high-performance, very high-resolution (<50 cm) earth observation small satellite. The platform also features an onboard mission processing system and comes with an intersatellite link to support dynamic tasking.

Key Features

- Very high-resolution (<50cm)
- Multispectral (2PAN 6MS)
- Agile, high performance and compact solution
- Designed for High Thrust and High Delta V
- State of the art UK sensor technology
- Assured and secure
- Multiple launcher compatibility

Applications

- Defence & Security
- Maritime Awareness
- Infrastructure Monitoring
- Disaster Monitoring
- Environmental Monitoring
- Natural Resource Management
- Agriculture

Digital
Intelligence

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Technical Specification

Parameter	Capability
Mission Design Level	
Orbit Type	Sun Synchronous Orbit
Altitude	375 km
Local Time of Ascending Node	10:30
Mission Lifetime	3 Years
Platform Level	
Launch Wet Mass	220 kg
Launcher Compatibility	Rideshare options including: Falcon 9 (Full Plate, Full Plate-XL) Ariane-6 (Hub Port) PSLV (Upper / Lower) Skyrora XL (Standard Fairing) ABL RS1 (XL Fairing)
Propulsion System	Green Chemical Propulsion
Propulsion Total Impulse / Thrust / dV	23 kNs / 1000 mN / 104 m/s
On Board Storage	4TB
Payload Level	
Primary Imager	
Swath	10.8 km
Off-Nadir Imaging	Up to $\pm 45^\circ$ in roll
Processed Resolution @ 375 km	47cm Panchromatic (NIIRS 6)
Spectral Bands (Tailorable wavelength options)	PAN: 455 - 745 nm Coastal Aerosol: 429 - 457 nm Blue: 445 - 535 nm Green: 535 - 585 nm Red: 630 - 690 nm Red-Edge: 730 - 750 nm NIR: 760 - 880 nm
Imaging Mode	Strip: 10.8 km x 108 km (Extendable) Stereo: 10.8 km x 10.8 km
Acquisition Capacity	
Primary Imager Imaging Only	30,000 km ²

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