

BAE Systems Satellite EO-P30-300



The BAE Systems EO-P30-300 is a high-performance, very high resolution (64 cm), wide swath earth observation small satellite with complimentary full motion video up to 30 frame-per-second. The platform also features an onboard mission processing system and comes with an intersatellite link to support dynamic tasking.

Key Features

- Very high-resolution (64 cm)
- Multispectral (2PAN 6MS)
- Full motion video (30 frames per second)
- Swath up to 52 km
- Agile, high performance and compact solution
- 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


Technical Specification


Parameter	Capability
Mission Design Level	
Orbit Type	Sun Synchronous Orbit
Altitude	500 km
Local Time of Ascending Node	10:30
Mission Lifetime	5 Years
Platform Level	
Launch Wet Mass	250 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	Electric Propulsion
Propulsion Total Impulse / Thrust / ΔV	30 kNs / 10 μ N to 1mN / 120 m/s
On Board Storage	4TB
Payload Level	
Primary Imager	
Swath @ 500 km	14.4 km
Off-Nadir Imaging	Up to $\pm 45^\circ$ in roll
Processed Resolution @ 500 km	64 cm 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: 14.4 km x 144 km (Extendable) Stereo: 14.4 km x 14.4 km
Secondary Imagers	
Swath per secondary imager at 500 km	19.4 km Boresight straddle: ± 38 km at 500 km Swath extension: ± 52 km at 500 km
Off-Nadir Imaging	Up to $\pm 45^\circ$ in roll
Imaging Mode	Strips, Stereo, Video
Acquisition Capacity	
Primary Imager Imaging Only	60,000 km ²
Primary Imager + Dual Secondary Imagers	191,000 km ²

BAE SYSTEMS

BAE Systems, Surrey Research Park, Guildford, Surrey, GU2 7RQ, UK

E: space@baesystems.com | W: baesystems.com/futurespace

 [linkedin.com/company/baesystemsdigital](https://www.linkedin.com/company/baesystemsdigital)

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