

## SSSL 300 S1

### Agile, sub-1metre imaging system

The SSSL 300 S1 is the latest in the family of highly capable SSSL 300 platforms, providing sub-metre imagery with all the existing mission performance of the platform, and retaining its heritage.

Ideal for a wide range of commercial, civil and security applications, the agile SSSL 300 S1 Earth imaging system offers 0.75m GSD imagery with high speed downlink and 45° fast slew off-pointing.

Thanks to the high agility of the system, applications previously only possible at lower resolution can now be achieved with incredible image detail.

The SSSL 300 S1 is a new world-leader in its class of Earth Observation satellites. Continuous technology innovation means that sub-metre imagery is possible, along with quality and quantity of images to meet demanding rapid response applications.



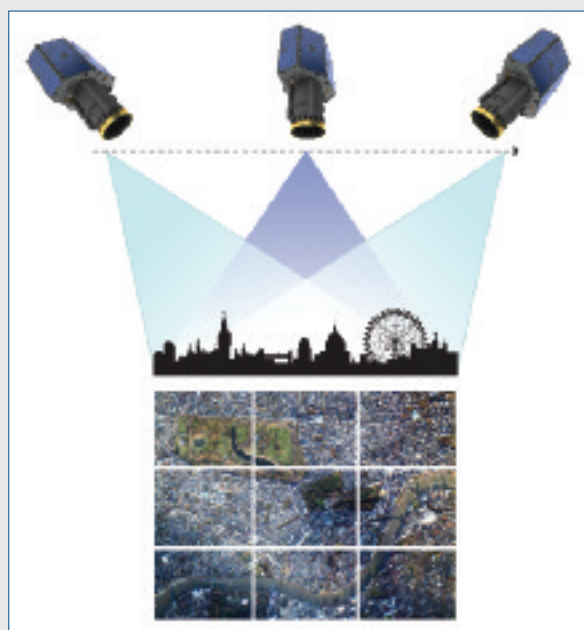
Example SSSL 300 S1 high resolution imagery

### Applications

Suitable for a wide variety of commercial, civil and security applications. Typical examples include:

-  Surveillance
-  Security
-  Multi-angle measurements
-  National and urban mapping
-  Agricultural monitoring
-  Precision farming
-  Orthographic mapping

Mission and System	
Reference Orbit	500km, SSO, 10:30am LTAN
Design Lifetime	7 years
Space Segment	
Mass	350kg
GSD	PAN: 0.75m M/S: 3m
Swath	17km
SNR	All bands >100:1
MTF at Nyquist	10%
Digitisation	10 bits
Compression	JPEG-LS configurable
Data Products	Radiometrically and geometrically corrected images Stereo Wide area
Off-pointing	Up to 45°
Flexibility	Fast slew
Safety & Security	Encryption of all command and telemetry Payload data encryption



Area mode imaging capability from the agile SSTL 300 S1

## The whole package

SSTL has built its reputation on the ability to deliver a complete solution to customer requirements through our wide range of subsystems and services.

- ▄ Mission design and platform manufacture
- ▄ An exclusive hands-on and academic training programme
- ▄ Full support for panchromatic and multi-spectral imagery
- ▄ Ground segment installation and support
- ▄ Operations support
- ▄ Warranty and support services
- ▄ Launch procurement & insurance
- ▄ Consultancy

## Surrey Satellite Technology Limited

SSTL has launched over 30 satellites gaining 200 years in-orbit experience. SSTL draws on its world-class expertise in both small satellite platform technology and high and medium resolution imagers. SSTL provides complete turnkey system solutions: spacecraft, ground station, launch, operations and image data processing.

SSTL is unique in the space industry; able to design, manufacture and integrate multiple satellites in-house.

Changing the economics of space  
[www.sstl.co.uk](http://www.sstl.co.uk)



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