

## TEGU IMAGER

The **Tegu** multispectral imaging payload offers

- Space-proven design and performance with **operational heritage**.
- Cutting edge high performance **multispectral image plane**.
- Visible to near-infrared coverage across **8 customizable spectral channels**.
- Large **integrated high-speed data storage**.

The Tegu imager is a lightweight multispectral imager. Its 200mm aperture space-proven optics are suitable to demanding microsatellite missions.

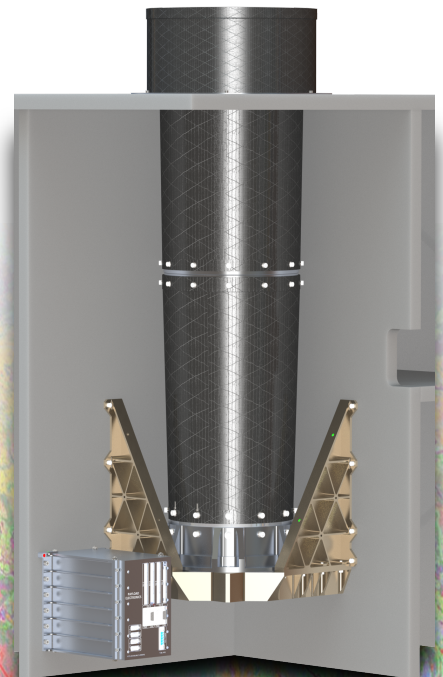
In-flight configurability allows for unparalleled mission-optimised data collection. Spectral bands will typically include Coastal, Blue, Green, Yellow, Red, Red Edge, NIR and PAN, and may be selected dynamically. Typical applications of these bands include environmental and vegetation monitoring, agricultural yield estimation, water resource management, disaster management, infrastructure monitoring and city planning.

Reliable operation is achieved by using proprietary hardware, space-proven ruggedised hardware and ECSS-based systems engineering in an ESA-grade production facility using a full qualification lifecycle.

### TEGU IMAGER

Spatial resolution @ 500km	2.0 m GSD panchromatic 4.0 m GSD <sup>†</sup> multispectral
Swath @ 500km	24 km
Spectral bands	8 bands covering VIS-NIR (400 nm - 955 nm)
Signal to noise ratio	> 125 across all bands
Payload MTF	> 12.5 % at Nyquist (panchromatic)
Data format	10-bit or 12-bit
Integrated data storage	1 Terabyte non-volatile
Compression	RAW or J2K lossless or lossy
Data interfaces	LVDS, CAN
Physical dimensions	782 mm x 280 mm x 280 mm
Mass (incl. control electronics)	< 24 kg
Power usage	< 35 W (imaging mode) < 20 W (configuration mode) 28 V supply (24V - 32V allowed)
Operating temperature	+10 °C to +30 °C
Survival temperature	- 10 °C to +60 °C
Qualification standards	Tested to 20 krad TID Designed to ECSS margins Full qualification lifecycle

<sup>†</sup> Depends on chosen configuration.



SCS & Space Advisory Company

proud members of



St. Andrews Building, 3rd Floor | Somerset Links Office Park, De Beers Avenue | Somerset West, 7130 | South Africa  
+27 21 300 0060 | [www.spaceadvisory.com](http://www.spaceadvisory.com) | [info@spaceadvisory.com](mailto:info@spaceadvisory.com)