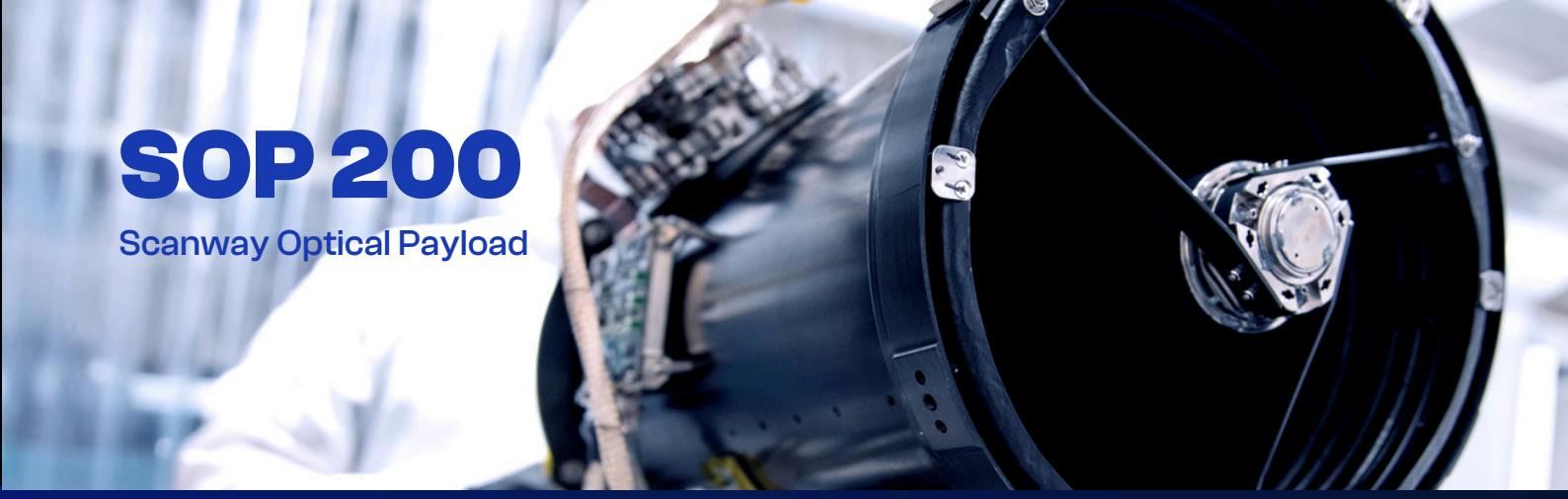

SOP 200

Scanway Optical Payload

Key highlights

The SOP 200 (Scanway Optical Payload) is a microsatellite-sized dual-sensor imager designed for advanced Earth Observation applications. It is capable of capturing high-resolution imagery in both the visible (VIS) and near-infrared (NIR) spectral bands. Operating from an altitude of 350 km, the SOP 200 delivers a ground sampling distance (GSD) of 1.2 meters per pixel (1.75 @500), ensuring detailed spatial resolution for a wide range of observational and analytical needs.

Applications

The imager facilitates a wide range of Earth observation applications across various sectors, including:

- Urban Planning and Infrastructure Mapping
- Wildfire Mapping and Disaster Response
- Marine and Water Bodies Monitoring
- Agricultural Monitoring
- Forest Health Monitoring
- Facility Monitoring and Reconnaissance

Customization

Product customization is available, encompassing:

- number of spectral bands - by custom spectral filter application,
- GSD / SWATH - change of camera to a different one / to our custom solution, change of optical system.

Flight heritage

The payload was launched on August 16, 2024.

Scanway space

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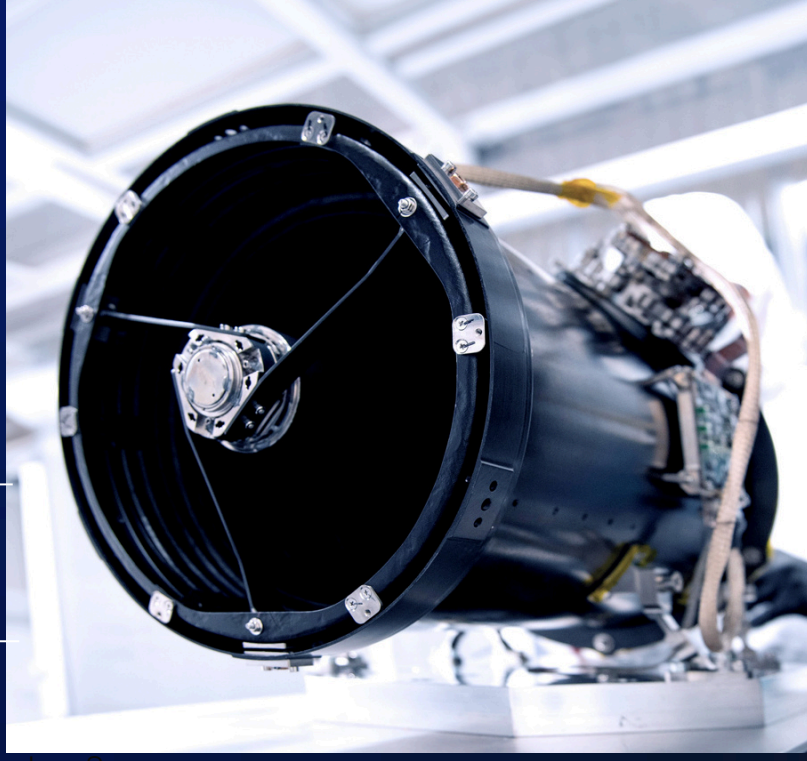
SOP 200

Scanway Optical Payload
for microsatellite

1.75 m GSD	**7 x 5 km** Observed area
TRL 9 in 2024	**200 mm** Aperture



Img. Scanway

Technical details for @500 km

Spectral bands	VIS-NIR
Aperture	198 mm
GSD	1.75 m
IFOV	0.72 "
FOV	0.8 x 0.6 °
Swath X	7.2 km
Swath Y	5.3 km
Images resolution	4096 x 3072 pix
Pixel pitch	5.5 um

Focal length	1586 mm
Focal ratio	8
Chief ray angle	0.51 °
Mass	8 kg
Envelope [mm]*	430 x 350 x 300
Data format	8, 10 or 12 bits
Data interfaces	I2C, SPI, LVDS
Required power	5 W
Required voltage	12 V or 5 V

* height, width, length

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