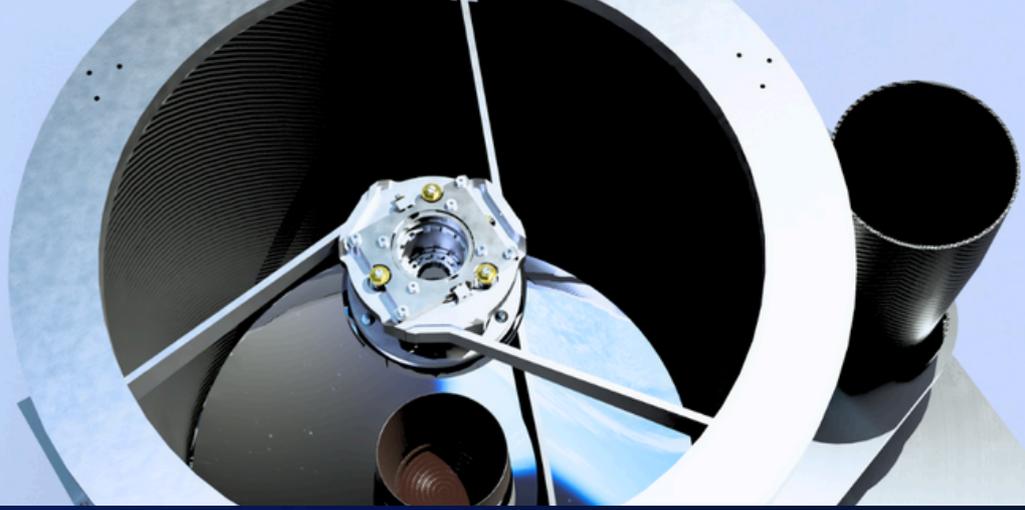


# SOP 450

## Scanway Optical Payload



## Key highlights

The SOP 450 (Scanway Optical Payload) is a microsatellite-sized imager designed for advanced Earth Observation applications. It is capable of capturing high-resolution imagery in the visible (RGB) spectral band. Operating from an altitude of 500 km, the SOP 450 delivers a submeter ground sampling distance, 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

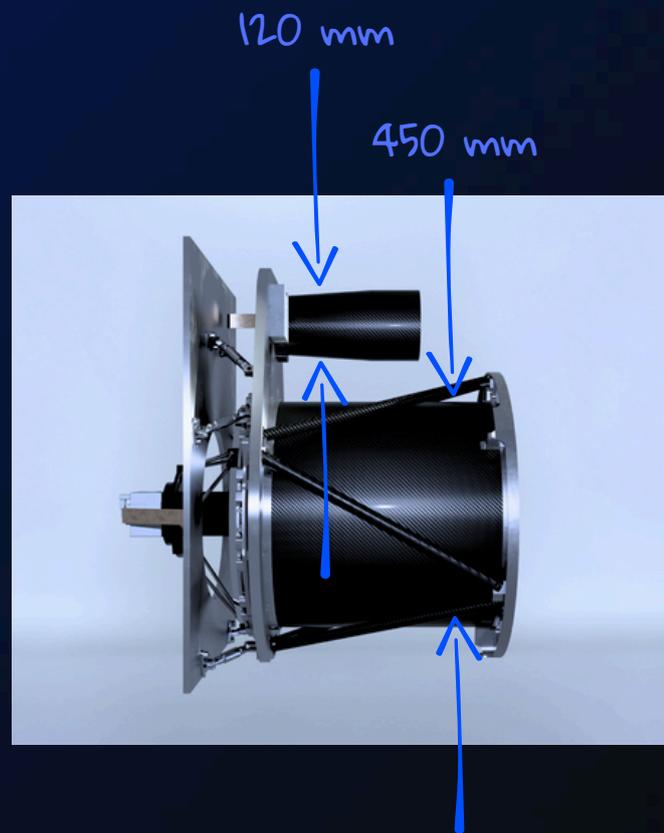
## Customization

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 will be launched in the middle of the 2026.



# SOP 450

Scanway Optical Payload  
for microsatellite

**0.8 m**  
GSD

**10 x 8 km**  
Observed area

**TRL 9**  
in 2026

**450 mm**  
Aperture



## Technical details for @500 km

Spectral bands	VIS - NIR
Aperture	450 mm
GSD	0.8 m
IFOV	0.33 "
FOV	1.17 x 0.88 °
Swath X	10.20 km
Swath Y	7.64 km
Images resolution	12768 x 9564 pix
Pixel pitch	3.45 um

Focal length	2157 mm
Focal ratio	4,8
Chief ray angle	0.73 °
Mass	30 kg
Envelope [mm]*	700 x 500 x 500
Data format	10, 12 or 14 bits
Data interfaces	Ethernet
Required power	30 W
Required voltage	12 V

\* height, width, length