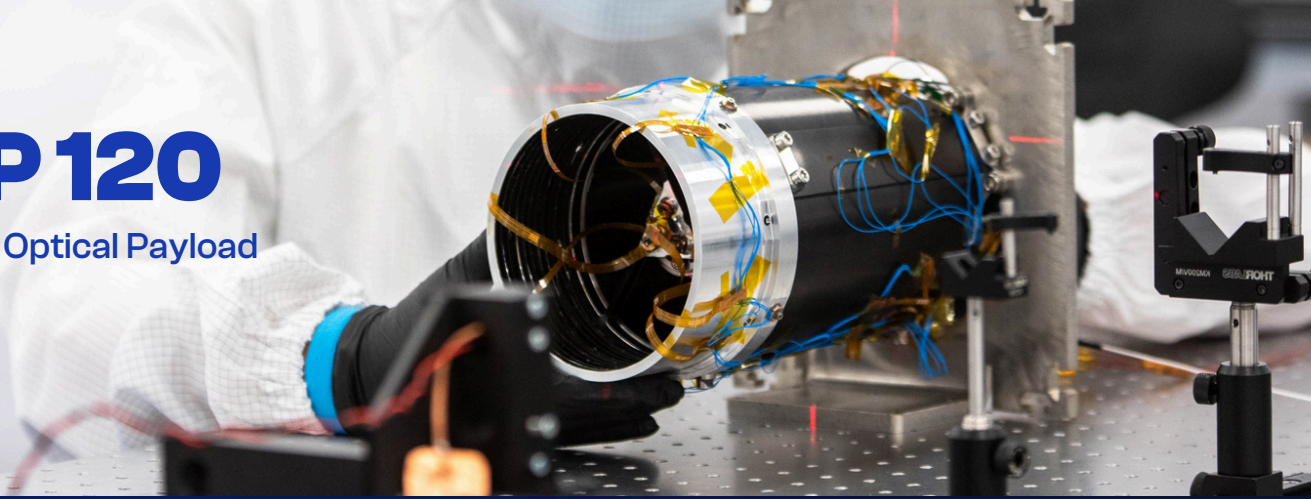


SOP 120

Scanway Optical Payload



Key highlights

The SOP 120 (Scanway Optical Payload) is a nanosatellite-size imager designed for advanced Earth Observation applications. It is capable of capturing high-resolution imagery in both the visible (RGB) or NIR/PAN spectral bands. Operating from an altitude of 500 km, the SOP 120 delivers a ground sampling distance of near 5 m/pixel, 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

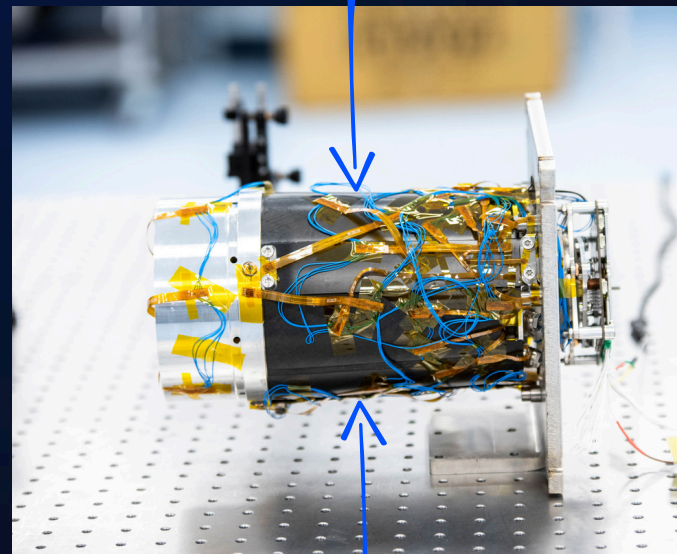
Product customization is available, encompassing:

- 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 2025.

120 mm



SOP 120

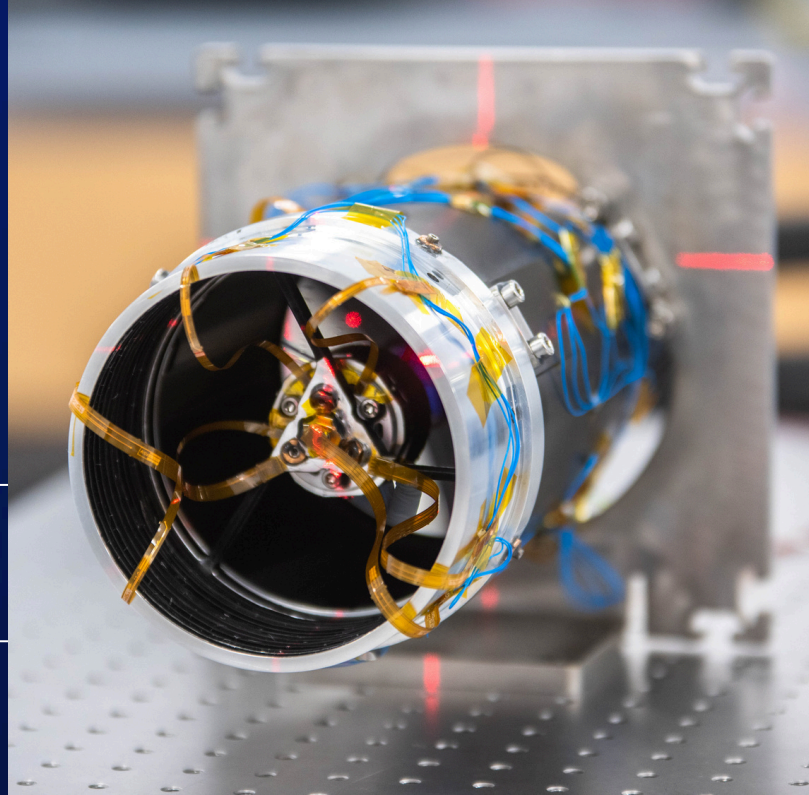
Scanway Optical Payload
for nanosatellite

4.58 m
GSD

18 x 14 km
Observed area

TRL 9
in 2025

120 mm
Aperture



Technical details for @500 km

Spectral bands	RGB or PAN
Aperture	120 mm
GSD	4.58 m
IFOV	1.89 "
FOV	2.15 x 1.61 °
Swath X	18.75 km
Swath Y	14.08 km
Images resolution	4096 x 3072 pix
Pixel pitch	5.5 um

Focal length	600 mm
Focal ratio	5
Chief ray angle	1.34 °
Mass	2.26 kg
Envelope [mm]*	300 x 155 x 155
Data format	8, 10 or 12 bits
Data interfaces	I2C, SPI, LVDS
Required power	6 W
Required voltage	12 V

* height, width, length