VINIS

High-performance Earth-observation payload in VIS-NIR-SWIR

IACTEC Space
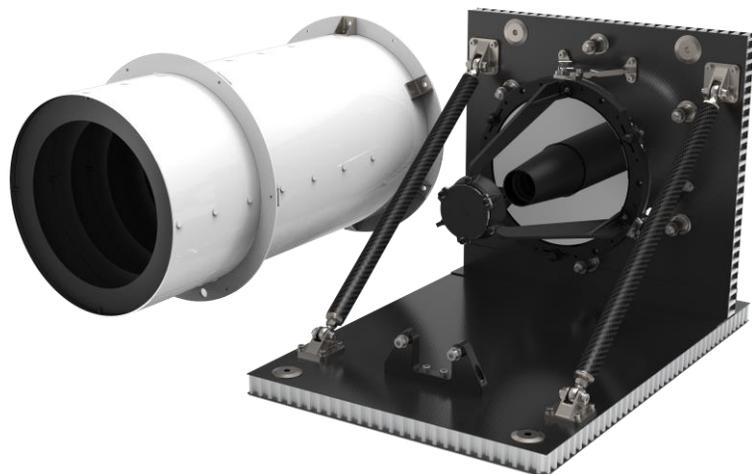
PAYLOAD SPECIFICATIONS (@500 km orbit)	
Spectral range (simult. multiband)	1– 1.7 µm (SWIR) 0.4 – 0.9 µm (VIS-NIR)
GSD	< 5 m
Effective aperture	200 mm
Swath	~ 6.5 km
SNR	> 60
Power	35 W
Size (telescope + camera)	65 x 40 x 40 cm
Weight (telescope + camera)	< 20 kg
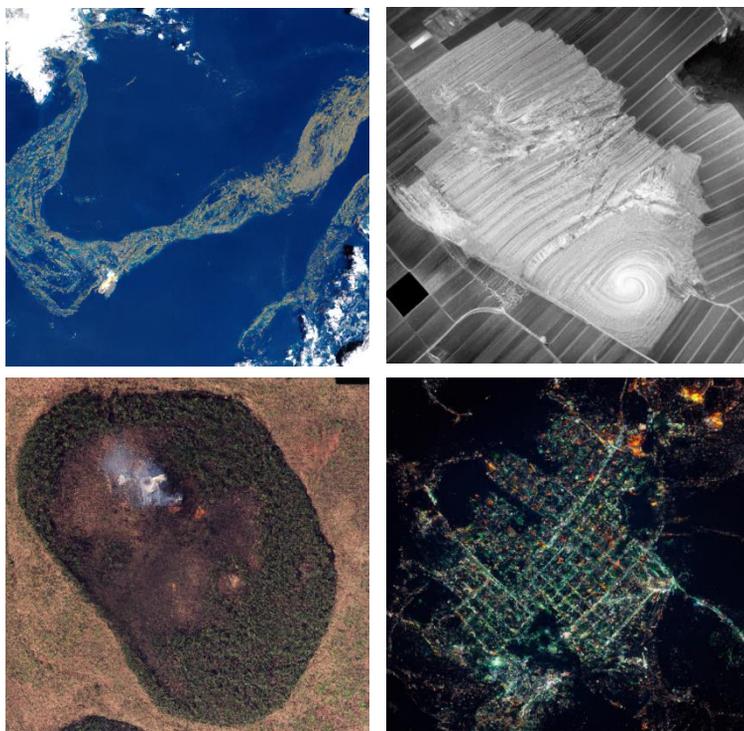
Images of VINIS applications. Simulated using AI.

Applications:

- ✓ Support in **firefighting** tasks.
- ✓ Detection of **oil spills** in the sea.
- ✓ **Water stress** monitoring on crops.
- ✓ **Flood impact** assessment.
- ✓ Detection for **rescue in the high seas.**
- ✓ **Light pollution** monitoring.
- ✓ Analysis of the evolution of **construction.**
- ✓ **Geological** studies.

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