

SPEO



VNIR & SWIR Optical Payload for Earth Observation Missions

- Multispectral imaging (12 bands)
- Very high metric resolution
- Low SWaP design
- Swath: 8km

VNIR & SWIR OPTICAL PAYLOAD FOR EO SMALLSATS

As a French leading player in the Space market since **1985**, Bertin Technologies provides SPEO, an **advanced VNIR and SWIR optical payload**, consisting in a **low SWaP** (Size, Weight and Power) **multispectral camera**.

Offering **very high resolution images with accurate radiometry**, SPEO will address a wide range of **Earth observation applications**, particularly in the environmental field (Agriculture, climatology, mining exploitation, environmental monitoring, natural disaster management...).

Its **lightweight, robust and high-stability design** is cost-effective and specially adapted to the smallsats' operational constraints, during both launch and in-service phases.

The development of SPEO has been financed by France 2030 investment plan.



APPLICATIONS

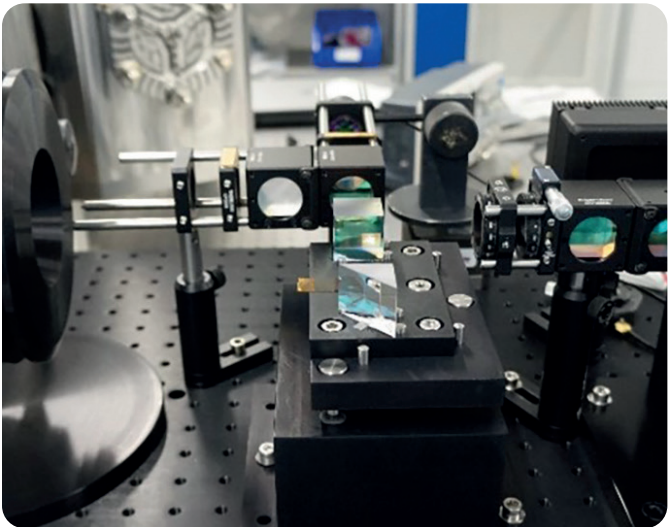


KEY VALUES

	VNIR	SWIR
Weight	<15 kg	
Volume	< Ø300mm x 400mm	
GSD	1m	7m
Swath	8km	
Bandwidth	0.4µm – 0.9µm	0.9µm – 1.7µm
Spectral bands	7 + PAN	3
Aperture	Ø 250mm	
Power Consumption	<22W	

WHO'S BACKING YOU?

Bertin Technologies' activities in the space market spans for 35 years. Bertin Technologies has a world-renowned expertise in the design and supply of optronic systems and optical components for major prime contractors and integrators. Highly committed to excellence, Bertin Technologies is AS/EN9100 certified, providing reliable, high-performance equipment to meet the most stringent requirements of the space industry. In addition, Bertin Technologies uses proprietary technologies and processes to offer all types of optical components, used in systems covering bandwidths from X-ray mirrors to lenses for Long Wave InfraRed (LWIR).



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