



SPEO MR

VNIR & SWIR Optical Payload for Earth Observation missions

- VNIR and SWIR imaging
- Swath: 8 km
- Multispectral imaging
- Low SWaP design

VNIR & SWIR OPTICAL PAYLOAD

As a leading European player in the space market since 1985, Bertin Technologies offers SPEO MR (Medium Resolution), an advanced VNIR and SWIR optical payload consisting of a low-SWaP (Size, Weight and Power) multispectral system.

Offering images in VNIR and SWIR with accurate radiometry, SPEO MR 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 MR has been financed by France 2030 investment plan.



APPLICATIONS



KEY VALUES

	VNIR	SWIR
Aperture	Ø 250 mm	
Weight	< 20 kg	
GSD (native)	1 m	6.25 m
Swath	8 km	
Imaging configuration	Line-scan (push broom)	
Bandwidth	0.4 µm – 0.9 µm	0.9 µm – 1.7 µm
Spectral bands	(RGB or 7) + PAN	Up to 3
Power consumption	< 22 W	

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).



SPEO MR

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