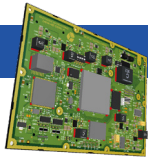


CamSight EO



VNIR & SWIR space camera modules for Earth Observation Missions

- Multispectral and hyperspectral
- Largest swath for Earth Observation
- Configurable digital TDI
- Edge computing
- UE product



VNIR & SWIR SPACE CAMERA MODULES

As a **French leading player in the Space market since 1985**, Bertin Winlight provides standalone or coupled **VNIR (Visible and Near Infrared) & SWIR (Short-Wave Infrared) camera module**, for advanced optical payload.

These camera modules feature large and resolved focal plane arrays in the VNIR and SWIR spectral ranges with high-end sensors.

Multispectral and hyperspectral imaging is fully customizable.

CONFIGURATION MANAGEMENT

- Adjustable digital TDI lines per band
- Binning x2 and x4 for SNR enhancement

STATE-OF-THE-ART SENSORS

- Mass Memory Unit: up to 128 GB
- Missions scheduler: TC/TM thermal control management, FDIR
- SpaceWire interface to SVM (Service Module)

CamSight EO modules will address a wide range of Earth multispectral and hyperspectral applications in both VNIR and SWIR spectral ranges.

Their dual-channel capability is cost-effective and natively supports edge AI.

Fields of use

- Agriculture
- Environmental monitoring
- Natural disaster management
- Industrial gas surveillance
- Security and defence surveillance

EDGE COMPUTING

- Compression on demand
- Bad pixels corrections
- Data and metadata packaging

EXPERTISE

- Flight ready embedded computer vision ecosystems
- Low SWAP (Size, Weight and Power)

APPLICATIONS



KEY VALUES

	CamSight EO 8k	CamSight EO 16k	CamSight EO SWIR
Swath	8 320 pixels	16 640 pixels	1 280 pixels
Pixel pitch	4.4 µm		10 µm
Spectral bands	PAN (1) and MS (7)		CO ₂ /NH ₄
Hyperspectral	On demand		1 to 5 nm bandwidth
Spectral range	250-900 nm		615-1 700 nm
Configurable	Single Gain & HDR (70dB)		Dual Gain (LG/HG)