

Satellites
Transversal competencies

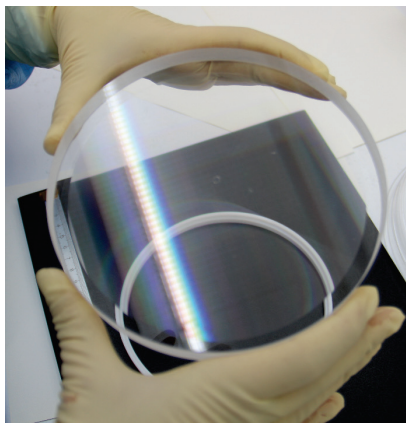


SILIOS Technologies is a High-Tech French SME, specialized in micro-optics for diffractive optics and multispectral filters and sensors. Our two lines of products address the different application fields of Astronomy, Space & Defense, scientific, tooling and medical Lasers, Environmental surveillance, Bio-medical and Medical, Agriculture and Agro-food industries, Forensics and Security.

COMPETENCIES & CAPABILITIES

Competencies: Micro-optics design & manufacturing, mastering of micro-technologies processes in clean-room environment, optical design, diffractive optics and phase plates, custom multispectral filters design & manufacturing, assembly of multispectral and polarization filters onto pixelated sensors, custom multispectral sensors and cameras realization.

Capabilities: 600m² ISO 2-clean room, Filters assembly bench (hybridization), Multispectral sensors characterization bench, Multispectral filters characterization bench, Micro-technology process machines (Lithography, wet benches and RIE, sputtering etc..), Optical and dimensional tests equipment (Microscopes, Profilometers, spectrometers, etc...), Lasers and optical tables.



Grisms for NISP instrument (EUCLID Mission)

SILIOS Technologies

PRODUCTS & SERVICES

Products:

- Off-the-shelf multispectral VIS/NIR multispectral cameras. (1.3Mpix and 4.2 Mpix) cameras. (SWIR available Q1 2021).
- Custom multispectral filters and sensors
- Custom Gratings and Grisms
- Custom phase plates and diffractive optical elements. Beam shapers, homogenizers, mode converters, splitters, combiners, wavefront correctors, wavefront and aberrations generators, etc...

Services:

- Assembly of hyper/multispectral filters, crossed polarization filters onto various sensors.
- Optical design and micro-optics foundry services.

MAJOR SPACE PROJECTS & REFERENCES

- Large aperture NIR blazed transmission curved Grating on Prisms (GRISMS) for the NISP instrument of EUCLID Mission. (LAM)
- Continuously-Self Imaging Grating for characterization of space imagers (EUCLID Imagers). (ONERA)
- Diffractive phase plates for static aberrations generator (RASCASSE project) (Thales Alenia Space)
- 4 Mpix Snapshot multispectral Sensor (CNES)

POINT OF CONTACT

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TURNOVER 1,2 M€

WORK FORCE 8

SPACE TURNOVER 0.3 M€

SPACE WORK FORCE 3 - 5