

Satellites
Transversal competencies



For over 50 years, the company CILAS, subsidiary of HMS Laser and LUMIBIRD, has developed recognized expertise in laser and optical technologies.

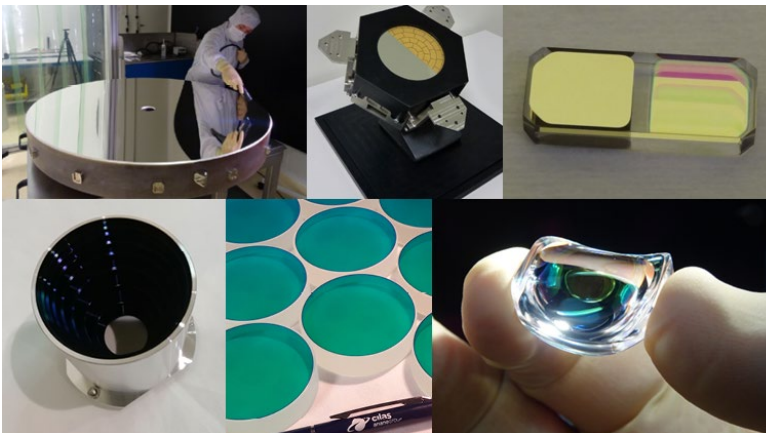
Today, CILAS develops, industrializes and markets a wide range of products and systems using these high technologies.

Defense, security and civil devices, scientific and industrial instrumentation, cutting-edge optical components and major scientific laser programs are its main markets.

COMPETENCIES & CAPABILITIES

With half of its turnover being generated by direct exports, CILAS is furthering its international development while continuing to develop and improve the latest technologies for future products designed to meet emerging needs.

Among CILAS flagship products, we find space qualified optical components and coatings, optical amplifiers for space communication and deformable mirrors for space applications.



CILAS

PRODUCTS & SERVICES

1) Solid state and fiber lasers and amplifiers:

CILAS designs and manufactures compact pulsed solid state lasers, fiber based lasers and amplifiers dedicated respectively to high pulsed energy and power applications including LEO/GEO optical links

2) Space borne deformable mirrors:

CILAS piezoelectric Monomorph technology is compatible with space borne instrumentation requirements.

3) Optical components and coatings:

CILAS manufactures filters, stripe filters, dichroic, polarizers, anti-reflection coatings, absorbing coatings, protected or enhanced metallic coatings, all qualified to space environment.

Production means allow large size coatings up to 2mx2m size.

MAJOR SPACE PROJECTS & REFERENCES

1) Solid state and fiber lasers and amplifiers:

CILAS is developing a 10W amplifier module for space optical communication with CNES and a 400mJ amplifier for space instrumentation with ESA.

2) Space borne deformable mirrors:

CILAS OTOS-TANGO Space borne deformable mirror has been validated TRL 6 by Airbus Defense and Space and CNES.

3) Optical components and coatings:

CILAS supplied optical components for LOLA, GOCI, Taranis, Tropomi, Sentinel 5, Proba V, Proba V-EVO, Chemcam, Supercam, Metimage, Microcarb, LSTM...

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TURNOVER M€ 45

WORK FORCE 270

SPACE TURNOVER M€ 2.5

SPACE WORK FORCE 5 %