

Orbital systems
Ground segments
Satellites
Launchers



AUREA Technology provides high-performance optical instruments and modules for Space industry:

- Quantum Communications and Quantum Information,
- Laser communications,
- High-resolution LIDAR,
- High-resolution metrology for optical fibers.

COMPETENCIES & CAPABILITIES

AUREA Technology designs, develops, and manufactures high-performance optical instruments and modules based on the latest photonics technologies, including ultra-low-level-of-light photon counting detectors, high-brightness entangled photon sources, ultra-fast pulsed laser, and fast timing electronics.



AUREA TECHNOLOGY SAS

PRODUCTS & SERVICES

- Entangled Photon Sources at telecom wavelengths for satellites Quantum communications,
- Single Photon Counting detectors and optical receivers for Optical Ground Station,
- Laser communications at telecom wavelengths,
- Timing electronics,
- High-resolution LIDAR,
- High-resolution OTDR.

MAJOR SPACE PROJECTS & REFERENCES

HP-EPS project for SAGA ESA project:

design & development of a High-Performance Entangled Photon Source at telecom wavelength for Quantum communications.

TEQUANTS project for SAGA ESA project:

- design & development of ultra-low level-of-light and high-speed photon counting detectors at telecom wavelengths based on Single Photon Avalanche Photodiode technologies,
- design & development of a high brightness Entangled Photon Source at telecom wavelength.

POINT OF CONTACT

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