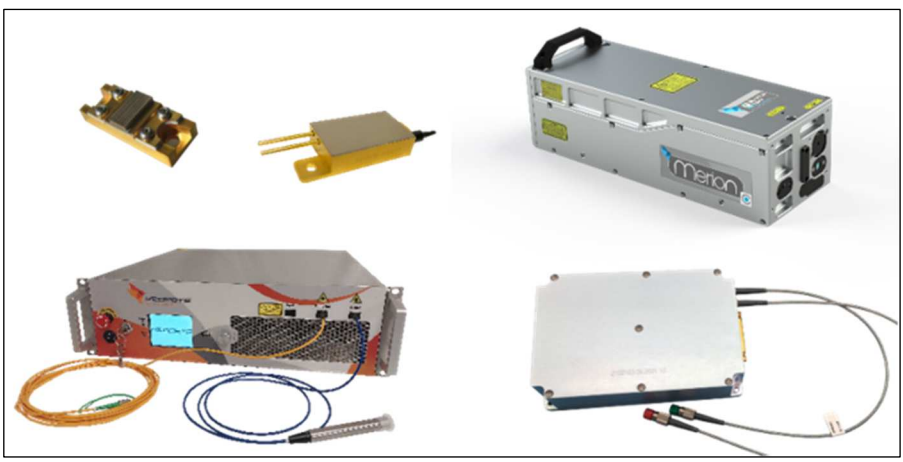
Satellites
Ground segments
Transversal competencies

LUMIBIRD
MORE THAN LASERS

LUMIBIRD is one of the world's leading specialists in lasers. Formed from the merger of Quantel – founded in 1970 to develop solid-state lasers – and Keopsys – founded in 1997 to develop fiber lasers – LUMIBIRD benefits from several decades of innovation in cutting-edge photonic technologies:
fiber lasers and amplifiers, **laser diodes**, **solid-state lasers and amplifiers**. The French group employs 1,000 people and is headquartered in Lannion.

COMPETENCIES & CAPABILITIES

- Design of spaceborne laser systems and components
- Design of ground-based laser systems and components
- Manufacturing
- Space qualification (Thermal Vacuum test chambers, vibration test chambers, test benches)



LUMIBIRD

PRODUCTS & SERVICES

LUMIBIRD provides solutions for a wide range of space applications:

- Optical Inter Satellite Links (OISL) and downlinks with **High Power Optical Amplifiers (HPOA) & Low Noise Optical Amplifiers (LNOA)**
- Optical Ground Station (OGS) with **high power fiber amplifiers & lasers**
- Ranging, docking and landing with **pulsed 1.5 µm and 1.0 µm fiber lasers & CW laser diodes**
- LiDAR with space qualified **QCW laser diode stacks**, **YAG lasers** & **fiber amplifiers**
- Debris detection with **laser diodes**, **YAG** & **fiber lasers**
- Opto-pyrotechnics with **hermetically sealed fiber coupled laser diodes**
- Mission discovery with **laser diodes**

MAJOR SPACE PROJECTS & REFERENCES

Since 1999, the group has contributed to international space programs directed by organizations including ESA, NASA, CNES and JAXA and other commercial space programs.
Some examples:

- Aladin / Aeolus - ESA (LiDAR)
- MSL09 / ChemCam - CNES / NASA
- LOLA - NASA (Altimeter)
- ATLID / Earthcare - ESA (LiDAR)
- NEC Fujitsu - JAXA
- MSL2020 / SuperCam - CNES / NASA (LIBS)
- GALA / JUICE - Airbus / ESA (Altimeter)
- ISS docking
- EDFA for LEO and GEO constellations

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TURNOVER 225 (in M€ / *2025*)
WORK FORCE 1000 employees (*2026*)
SPACE TURNOVER
SPACE WORK FORCE