

Orbital systems
Satellites
Transversal competencies



Part of Safran Electronics & Defense, **Safran Reosc** is the European leader in high-performance space optics with 50 years of cooperation with CNES, Airbus and Thales, recognized by CAST, ESA, DLR, ISA, ISRO, JAXA, KARI, NASA, FFI, ...

We deliver the latest and most high-performance space optics and camera for earth observation, weather forecast, science, environment monitoring and Situation Awareness.

COMPETENCIES & CAPABILITIES

From spec to final product we offer:

- Lens design & mechanical engineering,
- Ultra-lightweight glass machining for large size optics,
- Robotic polishing of aspheres & freeform, in metal, glass or SiC, from a few cm to 4-m size, IBF & MRF figuring,
- Accurate metrology bench design and calibration,
- UV-Vis-IR thin film deposition up to 1.6-m aperture, thin film 2D structuration and pixelated coatings,
- Lens assembly, telescope integration and final performance evaluations in ISO-5 clean room,
- Program & quality management per space standards.



SAFRAN REOSC

PRODUCTS & SERVICES

Safran Reosc offers critical products & services for optical earth observation, weather forecast, science & environment monitoring:

- Precision lens design & mechanical engineering,
- Lightweight mirrors and fixtures (metal, glassy, Sic),
- High performance Vis-IR dioptric optics,
- Vis-IR filters & thin films, down to cryogenic temperature
- Flexible supply from single component, opto-mechanical module to full telescope or equipment,
- Precision collimators & reference flats for ground testing.
- NEW: ultra-low SWaP space camera for nanosat.

MAJOR SPACE PROJECTS & REFERENCES

Earth observation: Spot, Helios, CSO, Perusat, KazEOSat-2, VNRED, Ofeq, Formosat, Cartosat, Oceansat, Kompsat-2 & 7, Pleiades Neo,

Meteo: Meteosat, MSG, MTG, METOP, IASI, IASI-NG, Gaofen-5, INSAT

Science: Orfeus, Solar-B, Solar Dynamic Observatory, Gaia, Hipparcos, Corot, ISO, JWST NIRSpec, Euclid

Environment: Aeolus, EarthCARE, Merlin, Microcarb

Test Equipment: Precisions large flats & collimators for TAS, ADS, CNES, ESA, NASA, JAXA, ELOP, ISRO, KARI

Nanosat camera for NorSat-4.

POINT OF CONTACT

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TURNOVER €30M

WORK FORCE 180

SPACE TURNOVER €20M

SPACE WORK FORCE 130