Ground segments
Transversal competencies

Miratlas

Miratlas provides complete characterization of optical atmospheric conditions including cloud and absorption but also turbulence by night and by day.

Our integrated sky monitor offers a comprehensive array of passive optical sensors with all the functionalities necessary for robotic telescope operation and is designed to operate continuously without maintenance.

The data is readily available through online subscription via a comprehensive dashboard.

COMPETENCIES & CAPABILITIES

Comprehensive atmospheric characterization according to the CCSDS recommendations for optical comms:

- Cloud cover imager, high resolution visible and thermal cameras
- DIMM (night) and SHABAR (day) turbulence measurements
- Weatherproof Alt/Az tracking mount
- Physical atmospheric modelling of turbulence

MIRATLAS

PRODUCTS & SERVICES

The Integrated Sky Monitor is available both as a product or as a service.

The configuration is modular according to the parameters required as well as the location of the installation site.

It is designed to inform the number, location and operations of the ground segment gateways by providing:

- Site survey

- Laser Communication Terminal design information

- Minimum number of sites necessary to ensure sufficient diversity.

- LCT operations and handovers optimization

MAJOR SPACE PROJECTS & REFERENCES

Miratlas is involved in numerous collaborations including:

- CNES on optical feeder link for GEO satellite with Airbus, Thales, Cailabs, Alpao etc.

- ONERA on cloud and turbulence measurements

- CAI Durham on atmospheric modelling

Our customers include:

- NASA CDSCC, DLR, Airbus, KSAT, RAS SAO, USTC

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