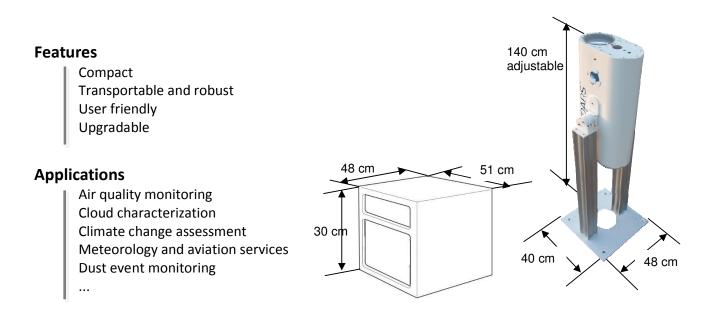




Very low overlap (200 m), eye-safe (UV laser), post processed atmospheric data, PBL and troposphere analysis



ALS (Aerosol Lidar System) is an active remote sensor based on LIDAR technique. It has been designed by researchers for researchers as an easy, reliable and robust tool.

Output Data

Calibrated raw & range corrected data Backscatter & extinction coefficient Backscatter ratio Cloud layers (base, top if penetrable and multilayers if penetrable) PBL height (mixing layer) Optical depth

Technical specifications

| ELECTRICAL | | |
|---------------------------|-----------------------------|-----------------------------|
| Power Supply | | 110/230 V – 50/60 Hz |
| Average Power Consumption | | 700 W |
| OPTICS & ELECTRONICS | | |
| Laser | | Tripled YAG 355 nm |
| Pulse energy | | 16 mJ |
| Pulse repetition rate | | 20 Hz (tunable) |
| Pulse duration | | 5 ns |
| Eyesafety | | IEC 60825-1 |
| DATA | | |
| Data Transfert | | LAN/TCP-IP |
| ENVIRONMENTAL | Lidar Head | Electronics unit |
| Temperature Range | -5°C to +35°C | +10°C to +30°C |
| Operating Humidity | IP65 | IP40 |
| Watertight | Yes | No |
| Compacity | Portable | Portable |
| Size | 700x370x200 mm ³ | 480x510x300 mm ³ |

Functional specifications

| PERFORMANCES | ALS 300 | ALS450 |
|----------------------------|----------------------------------------|--------------|
| Range Min-Max | 0.2* to 15 km | 0.5 to 20 km |
| Accumulation time (PBL) | 10 s | |
| Accumulation time (Cirrus) | 30 s | |
| Vertical resolution | 1.5 / 15 m | |
| Upgradability | Water vapor and nitrogen Raman channel | |

*95% of the total signal amount at 100 m, optional overlap correction function is available.

Options (sold separately)

| Depolarization module | Cross polarization detection channel |
|-----------------------|------------------------------------------------------------------|
| Outdoor casing | All climate, full IP65 |
| Photon counting | Optional for ALS300 to improve long distance detection |
| Expert software | Advanced features for expert users |
| 3D Scanning device | All weather, acquisition and display of PR ² software |
| Data reader software | Recorded data display |

The pictures above are not contractual.

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