

COLIBRI

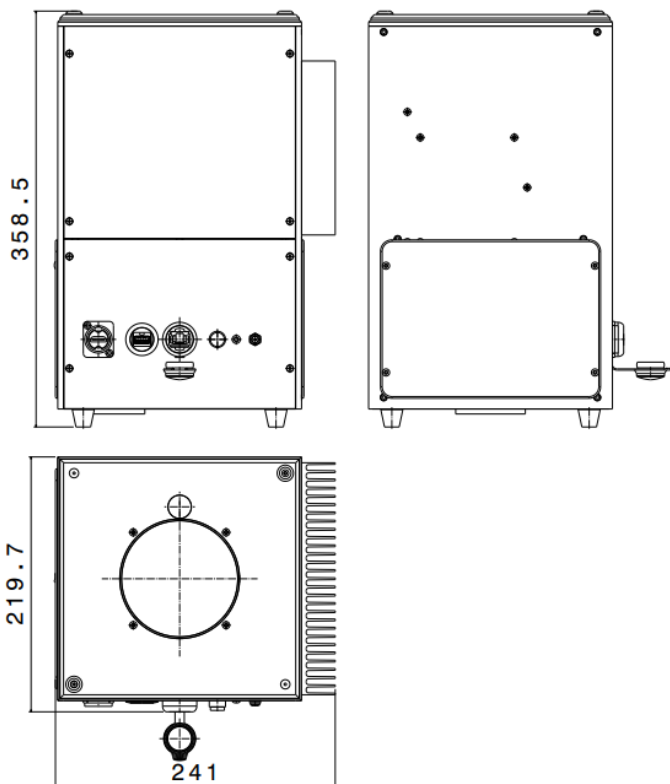
COmpact LIidar for airBoRne Investigation

COLIBRI is an elastic LIDAR, designed to monitor the atmosphere in the near field, from 100m to 5km.

It operates in the UV region of the electromagnetic spectrum (at 343nm) and thanks to the depolarization channel, it also gives information about particulate shape.

Extremely compact and light with low-power consumption, it is the ideal system to carry out measurement campaigns from an UAV or remotely piloted aircraft, offering a new and far-ranging set of applications.

COLIBRI is eye-safe and combines good accuracy, autonomy in remote use, portability and ease of operation.



FEATURES:

Three detection channels:

- Elastic co-polarized
- Elastic cross-polarized
- Raman N₂ echo

Real time monitoring of:

- Atmospheric pollution
- Air Monitoring from UAV, aircraft





Technical Specifications

LASER SOURCE

LASER TYPE	DPPS, AIR COOLED
EMITTED WAVELENGTH	343 nm
OUTPUT POWER	15 mW
BEAM DIVERGENCE	< 0.3 mrad
EYE-SAFE	yes

ACQUISITION

ACQUISITION DATA	(0.100-5) KM
ACQUISITION MODE	Photocounting
SPATIAL RESOLUTION	15 m
MINIMAL TEMPORAL RESOLUTION	30 s
DATA TRANSFER	USB

ELECTRICAL SPECIFICATIONS

POWER SUPPLY	15V
MAXIMUM CONSUMPTION	300 W

MECHANICAL SPECIFICATIONS

SIZE	240X260X360MM
WEIGHT	5 kg
IP FACTOR	IP43C

