Micro Pulse LiDAR
EST. 1997

ELEVATING ATMOSPHERIC MONITORING

From enhancing weather forecasts to monitoring air quality and increasing air traffic control safety, Micro Pulse LiDAR (MPL) is your trusted partner in remote atmospheric monitoring. Providing data in real time, this sophisticated laser remote sensing system uses the most advanced single-photon-counting detectors trusted by NASA. Make the fastest and most accurate decisions based on the reliable information from the MPL's continuous and autonomous monitoring.

PART OF HEXAGON

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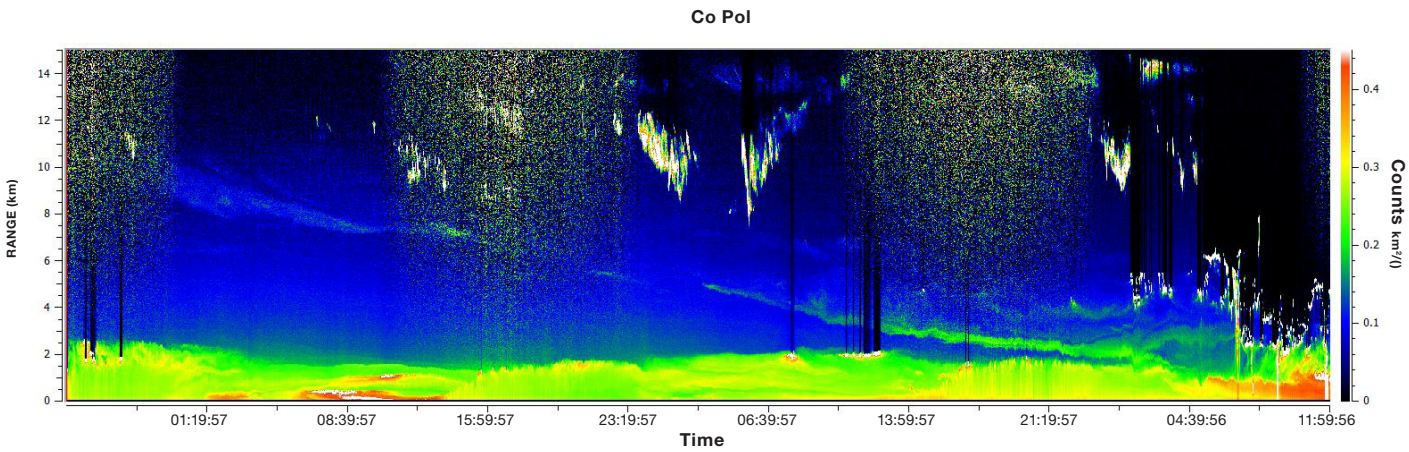
Micro Pulse LiDAR

PERFORMANCE	MPL	MiniMPL	MiniMPL-IR
Range resolution	5/15/30/75 m (software programmable)	5/15/30/75 m (software programmable)	5/15/30/75 m (software programmable)
Minimum range	250 m	100 m	100 m
Accumulation time	1 sec - 15 mins	1 sec - 15 mins	1 sec - 15 mins
Detection range*	Typically to 25 km	Typically to 15 km	Typically to 9 km
Polarization	Standard	Standard	Standard
Scanning	Not available	Optional	Optional
OPTICS			
Laser wavelength	532 nm	532 nm	1047 nm
Laser pulse energy	6 - 8 µJ @ 2500 Hz	3 - 4 µJ @ 2500 Hz	9 µJ @ 2500 Hz
Eye-safety	ANSI Z136.1 2000, IEC 60825	ANSI Z136.1 2000, IEC 60825	ANSI Z136.1 2000, IEC 60825
Receiver diameter	178 mm	80 mm	80 mm
Pump laser diode	Guaranteed to 10,000 hours, user replaceable	Guaranteed to 10,000 hours	Guaranteed to 10,000 hours
Detector	Fiber coupled	Fiber coupled, user replaceable	Fiber coupled, user replaceable
DIMENSIONS			
Size	300 x 350 x 850 mm	240 x 305 x 480 mm	240 x 305 x 480 mm
Weight (portability)	27 kg	13 kg	13 kg
DATA			
Operating system	Windows 7/10	Windows 7/10	Windows 7/10
Computer interface	USB	USB	USB
Data transfer	LAN ethernet	LAN ethernet	LAN ethernet
ENVIRONMENT			
Temperature	Operating +10°C to 35°C	Operating +10°C to 35°C	Operating +10°C to 35°C
Humidity	0 to 80%	0 to 80%	0 to 80%
POWER			
Supply	110-240 VAC 50-60 Hz	110-240 VAC 50-60 Hz	110-240 VAC 50-60 Hz
Consumption	500 W	100 W	100 W

** Choosing a coarser resolution results in a longer detection range. Sample data is based on a 30s/30m setting.*



High altitude aerosol descends and merges into local boundary layer over a 3-day period.