

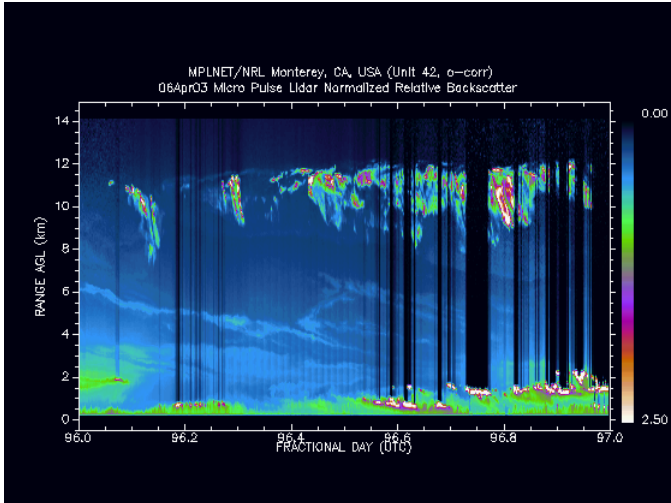
MICRO PULSE LIDAR TYPE 4

Sigma Space.Co

Specifications Sheet

PREDE

The Micro Pulse Lidar System Type 4 has been designed at NASA Goddard Space Flight Center for continuous, unattended monitoring of cloud and aerosol profiles in the atmosphere. The specifications listed below are the standard configuration of the MPL system. Site installation available upon request.



False color image of aerosol profiles over a 24hour period.



Micro Pulse Lidar Type 4 System

Transmitter

Laser Wavelength	527nm Nd:YLF
Pulse Repetition Frequency	2,500Hz
Pulse Energy	8 μ J up to 40 μ J
Computer Interface/Control	RS232
Eye Safety	ANSI Z136.1 2000 Compliant

Receiver

Telescope Type	Maksutov Cassegrain
Focal Length	2400mm
Diameter	178mm
Field of view	83 μ rad

Data System

Detector	Avalanche APD, photon counting mode
Range Resolution	15m, 30m, 75m(programmable)
Maximum Range	60km
Multichannel Scaler	Two-channel photon counting, A/D converters for temperature and energy monitors, USB interface to PC.

Software

Pre-installed, custom software for Microsoft Windows 2000/XP.(Notebook computer included with purchase).Real time data display or playback modes. Fully configurable MPL system setup and acquisition. USB interface to Multichannel scaler. RS232 link for laser control.

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