



# Micro Pulse Lidar Type 4

The Micro Pulse Lidar System Type 4 has been designed for continuous, unattended monitoring of cloud and aerosol profiles in the atmosphere. The specifications listed below are the standard configuration of the MPL system. Please contact Sigma Space Corporation to obtain pricing and information on modifications to these specifications. Site installation available upon request.

MPL licensed from the National Aeronautics and Space Administration under U.S. Patent No. 5,241,315.



## MPL-4B-527

### Transmitter

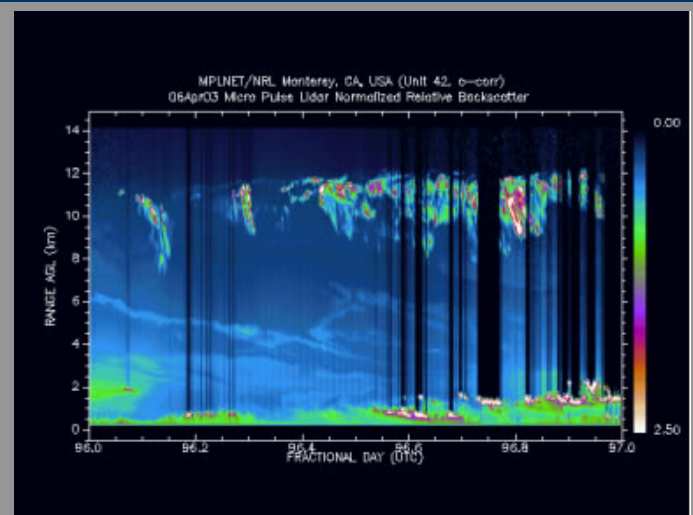
Laser Wavelength	527 nm Nd:YLF
Pulse Frequency	2500 Hz
Pulse Energy	8 $\mu$ J up to 40 $\mu$ J
Computer Interface	RS232

### Receiver

Telescope Type	Maksutov Cassegrain
Focal Length	2400 mm
Diameter	178 mm
Field of view	83 $\mu$ rad

### Data System

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



Data courtesy of Dr. Judd Welton, NASA GSFC

### 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.



This is a Class II laser product as defined by 21CFR1040.10 (US FDA/CDRH), EN60825 Series Standards (IEC), and Z136.1-2000 (ANSI).

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