

# Micro Pulse Laser Radar

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## **DESCRIPTION**

This is an eye safe, compact, solid state LiDAR (Light Detection And Ranging) for profiling a transmitter of the micro pulse LiDAR. The transmitter of the micro pulse LiDAR is a diode pumped uJ pulse energy, high repetition rate Nd:YLF laser. Eye safety is obtained through beam expansion. The receiver employs a photon counting solid state Geiger mode avalanche photodiode detector. Data acquisition is by a single card multichannel scaler. Day-time background induced quantum noise is controlled by a narrow receiver field-of-view and a narrow bandwidth temperature controlled interference filter. Dynamic range of the signal is limited by optical geometric signal compression.

## **FEATURES AND BENEFITS**

- This radar system is capable of detecting and profiling all significant cloud and aerosol scattering through troposphere and into stratosphere.

## **APPLICATIONS**

- Remote Sensing
- Environmental Monitoring
- Monitoring of Planetary Boundary Layer
- Air Traffic Support

## **FOR MORE INFORMATION**

If you are interested in more information or want to pursue transfer of this technology, GSC-13493-1, please contact:

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