

October, 2022

NASA turns to AdValue Photonics again for Lidar solutions

"Eye-safe" high pulse-energy fiber lasers delivered

with single-frequency transform-limited bandwidth

for Coherent Lidar in Wind Detection and Remote Sensing

Er-doped fiber laser: 1572nm, 1.8mJ, 4.5W power

- Pulse width 500ns, pulse repetition rate 2.5kHz
- Near diffraction-limited output beam
- All-fiber package, engineering prototype
- To NASA Goddard Space Flight Center

Tm-doped fiber laser: 1977nm, 1.4mJ, 7W power

- 500ns pulse width, 5kHz pulse repetition rate
- Near diffraction-limited output beam
- All-fiber package, engineering prototype
- To NASA Langley Space Flight Center

AdValue Photonics Overview:

As a leading manufacturer of innovative fiber lasers and amplifiers, and leveraging our unique capabilities in laser glasses and fibers, we deliver empowering products to our customers.

- Nanosecond Fiber Lasers at wavelengths 0.5μm (Green), 1μm, 1.5μm, 2μm: EVERESTnano
- <u>Picosecond</u> Fiber Lasers at 0.5µm (Green), 1µm: **EVEREST**pico
- <u>Pulsed Single-Frequency</u> Lasers: 1μm, 1.5μm, 2μm
- <u>2μm family</u> Lasers and Amplifiers: ns/ps/fs pulsed, single-frequency, CW, broadband
- Fiber Laser <u>Components</u>: Couplers, Isolators, Circulators

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Optimal Source Laser for Coherent Lidar Transmitter



Manufactured in the Optics Valley, Tucson, Arizona, USA