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## Fiber Lasers for LIDAR and Remote Sensing

LIDAR Technology has penetrated into many important areas in human society, industrial applications, and everyday life. While different uses of the technology require different types of LIDAR systems and their source lasers, AdValue Photonics provide fiber lasers applicable to LIDAR/Sensing systems for:

*Wind detection*  
*Air pollution*  
*Meteorology*  
*Molecular fingerprinting*  
*3D mapping*



### AdValue Photonics Fiber Lasers & Amplifiers

#### Optical Characteristics

*Wavelength: 1 $\mu$ m, 1.5 $\mu$ m, 2 $\mu$ m*  
*Pulse energy: >1 mJ*  
*Pulse width: nanoseconds*  
*Beam quality:  $M^2 < 1.3$*   
*Bandwidth: narrow linewidth, transform limited available*



**Product: Pulsed Single Frequency Fiber Laser** (AP-P-SF-1030, AP-P-SF-1550, AP-P-SF-1950) [\[Ref\]](#)

**Product: EVEREST<sup>TM</sup> nano** (AP-1030, AP-1550, AP-1950) [\[Ref\]](#)

#### AdValue Photonics Product Overview:

*Green, 1 $\mu$ m, 1.5 $\mu$ m, 2 $\mu$ m Nanosecond Fiber Lasers*

*Green and 1 $\mu$ m Picosecond Fiber Lasers*

*Single Frequency Pulsed Fiber Lasers @ 1  $\mu$ m, 1.55  $\mu$ m, 2  $\mu$ m*

*2  $\mu$ m Fiber Lasers and Amplifiers (ns/ps/fs pulsed, single-frequency, CW, broadband)*

*Fiber Couplers, Isolators, Circulators*

*Vertically integrated fiber laser manufacturer with in-house laser glass and fiber capabilities*