

Newsletter, October 2017

Fiber Lasers for Material Processing

AdValue Photonics has been continuously developing new products and new capabilities of fiber lasers for material processing applications. We are excited to keep adding new laser processing areas that include:

- Glass drilling and cutting
- Ceramics drilling and cutting
- Thin film patterning
- Thin film ablation
- Clear plastic welding
- Special plastic and rubber marking

Product lines currently available for your need!

Please contact AdValue Photonics for your particular requirements.

50 W EVEREST^{nano}™ Green Pulsed Laser

A powerful tool for glass drilling and other cutting & ablation processes, this laser operates at 515 nm wavelength, with a short pulse width of 5 ns, high pulse energy of 100 μ J, and high repetition rate of 100-500 kHz. ([Product Info.](#))



50 W EVEREST^{pico}™ 1 μ m Picosecond Laser

At 50 ps pulse width, 50 μ J pulse energy, and as high as 1 MHz repetition rate, our 1 μ m picosecond fiber laser combines precision and speed for marking, cutting, surface treatment, and other material processing applications. ([Product info.](#))



100 W EVEREST^{nano}™ 1 μ m Pulsed Laser

Its high average power and peak power make this laser the ideal choice for many material processing applications. The laser provides 5 ns pulse width and capable of >300 μ J pulse energy and 50-500 kHz repetition rate. ([Product Info.](#))



2 μ m / 1.5 μ m Nanosecond Lasers: EVEREST^{nano}™ and AP-QS1-MOD

The 2 μ m and 1.5 μ m special wavelengths enable some processes not achievable by other lasers in scribing, welding, and marking of semiconductor devices, transparent plastics, etc. In addition, they are "eye safe". At ~2 μ m wavelength, we have several models to achieve pulse energy up to 1 mJ and pulse width down to a few ns for various processing preferences. ([EVEREST^{nano}™ 2 \$\mu\$ m](#) and [AP-QS1-MOD](#))



AdValue Photonics Overview:

- EVEREST^{nano} Green, 1 μ m, 1.5 μ m, 2 μ m Nanosecond Fiber Lasers
- EVEREST^{pico} 1 μ m Picosecond Fiber Laser
- 1 μ m, 1.55 μ m, 2 μ m Pulsed Single Frequency Fiber Lasers
- 2 μ m Fiber Lasers and Amplifiers (ns/ps/fs pulsed, single-frequency, CW, broadband)
- Vertically integrated fiber laser manufacturer with in-house laser glass and fiber capabilities