

Fiber Lasers and Amplifiers

AdValue Photonics is a leading manufacturer of innovative fiber laser and fiber amplifier products in the following categories:

- Wavelengths at UV 355 nm, Green 515 nm, IR 1 & 1.5 & 2 μm , and options from frequency-conversion processes.
- Pulsed lasers in nanoseconds, picoseconds, and femtoseconds
- High pulse energy and peak power, with narrow linewidth capabilities including transform-limited bandwidth
- CW lasers with single frequency options
- Largest 2 μm product portfolio in the industry
- Lasers in the so called “eye safe” (retina safe) wavelength region, within which the potential of accidental eye injury is reduced. (Proper laser safety procedures should always be followed to operate a laser of any wavelength.)

Applications

- Drilling/Cutting/Marking glasses, ceramics, and diamond
- Scribing/Patterning thin films
- Welding/Marking clear plastics
- LIDAR and sensing
- Laser surgery and aesthetics
- High power laser development and manufacturing
- Frequency conversion and mid-IR generation
- Scientific research in various fields

Applications

Materials Processing
LIDAR
Scientific
Medical



Manufacturing

AdValue Photonics manufactures its products in Tucson, Arizona, USA. Specialty glasses and optical fibers are designed and fabricated in house to ensure the highest quality of products and enable our innovative laser designs.

Vertically Integrated



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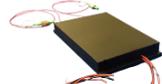
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Specifications subject to change without notice

Product Categories

Available: customized specifications, OEM package, special interface

<p>EVEREST[™]femto™ 1 μm Femtosecond Laser (AP-1030F)</p> <ul style="list-style-type: none"> • 1030 nm wavelength • Average power 30 W • Pulse width < 500 fs • Pulse energy 60 μJ • $M^2 < 1.3$ 	<p>EVEREST[™]pico™ Picosecond UV Laser (AP-355P)</p> <ul style="list-style-type: none"> • 355 nm wavelength • Average power 30 W • Pulse width < 15 ps • Pulse energy 50 μJ • $M^2 < 1.3$ 
<p>EVEREST[™]pico™ Green Picosecond Laser (AP-515P)</p> <ul style="list-style-type: none"> • 515 nm wavelength • Average power 10-30 W • Pulse width 50 ps • $M^2 < 1.3$ 	<p>EVEREST[™]pico™ 1 μm Picosecond Laser (AP-1030P)</p> <ul style="list-style-type: none"> • 1030 nm wavelength • Average power 15-100 W • Pulse width 50 ps • $M^2 < 1.3$ 
<p>EVEREST[™]nano™ Green Pulsed Laser (AP-515)</p> <ul style="list-style-type: none"> • 515 nm wavelength • Average power 10-50 W • Pulse width 5 ns • Pulse energy 100 μJ • $M^2 < 1.2$ 	<p>EVEREST[™]nano™ 1 μm Pulsed Fiber Laser (AP-1030)</p> <ul style="list-style-type: none"> • 1 μm wavelength • Average power 100 W • Pulse width 5 ns • Pulse energy 300 μJ • $M^2 < 1.3$ 
<p>EVEREST[™]nano™ 1.55 μm Pulsed Fiber Laser (AP-1550)</p> <ul style="list-style-type: none"> • 1.55 μm wavelength • Average power up to 20 W • Pulse width 5 ns • Pulse energy 200 μJ • $M^2 < 1.3$ 	<p>EVEREST[™]nano™ 2 μm Pulsed Fiber Laser (AP-1950)</p> <ul style="list-style-type: none"> • 2 μm wavelength • Average power up to 30 W • Pulse width 5 ns • Pulse energy 200 μJ • $M^2 < 1.3$ 
<p>1-2 μm Pulsed Single Frequency, ns (AP-P-SF)</p> <ul style="list-style-type: none"> • 1 μm, 1.55 μm, 2 μm wavelength options • Narrow linewidth or transform limited • Pulse energy up to mJ level • Pulse width nanoseconds 	<p>2 μm Q-switched, ns (AP-QS1-MOD, AP-QS1, AP-QS)</p> <ul style="list-style-type: none"> • Peak power 10's W to 10 kW • Pulse energy up to mJ level • Pulse width 20 to 200 ns • Average power up to 20 W 
<p>2 μm Mode-locked, fs & ps (AP-ML2, AP-ML1, AP-ML)</p> <ul style="list-style-type: none"> • Pulse width 350 fs to 3 ps options • Pulse energy nJ to 10 μJ • Peak power MW level • Average power 3 mW to 3W 	<p>2 μm Single Frequency (AP-SF1, AP-SF)</p> <ul style="list-style-type: none"> • Wavelength 1.9 to 2.1 μm options • Output power mW's to W's • Spectral linewidth 10 kHz to 1 MHz 
<p>2 μm CW (AP-CW1-MOD, AP-CW1, AP-CW)</p> <ul style="list-style-type: none"> • Wavelength 1.9 to 2.1 μm options • Output power mW's to W's 	<p>2 μm Fiber Amplifier (AP-AMP1, AP-AMP)</p> <ul style="list-style-type: none"> • Gain range 1.9 to 2.1 μm options • Output power mW's to W's 
<p>2 μm Supercontinuum Source (AP-SC-MIR)</p> <ul style="list-style-type: none"> • 10 dB bandwidth >500 nm • Average power 100 mW • Pulse rep. rate 10 kHz nominal 	<p>2 μm ASE Broadband Source (AP-ASE)</p> <ul style="list-style-type: none"> • 1.95 μm: 20-dB bandwidth 170 nm • 2.07 μm: 20-dB bandwidth 100 nm 

* Please contact AdValue Photonics for special requirements, custom specifications, or OEM module packages.

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