

Fiber Laser Products

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

- Fiber lasers with wavelength at 515 nm (Green), 1 μm , 1.55 μm , and 2 μm
- Pulsed lasers in nanoseconds, picoseconds, and femtoseconds
- High pulse energy and peak power, with narrow linewidth capabilities
- Largest 2 μm product portfolio in the industry
- Fiber laser related components

<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 100's 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 0.5-5 W • Pulse width 5 ns • Pulse energy 50 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 5 W • Pulse width 5 ns • Pulse energy 50 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 • 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 10 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 option. • 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 
<p>1 μm High Power Fiber Isolator (AP-aISO)</p> <ul style="list-style-type: none"> • All-fiber structure, no free-space element • Forward & backward power handling 50 W • Integrated backward monitor • Multi-channel option 	<p>2 μm Isolator and Circulator (AP-ISO-2000, AP-CIR-2000)</p> <ul style="list-style-type: none"> • Polarization insensitive or polarization maintaining • Isolator power 5 W ave. or 10 kW peak • Circulator power 2 W ave. 

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

Specifications subject to change without notice

Applications

- Drilling/Cutting/Marking glasses and sapphire
- Scribing/Patterning thin films
- Welding/Marking clear plastics
- General marking of various materials
- LIDAR and sensing
- Laser surgery and aesthetics
- Frequency conversion and mid-IR generation
- Scientific research in various fields

Our 1.55 μm and 2 μm lasers are in the so called “eye safe” (retina safe) wavelength region, within which the potential of accidental eye injury is reduced.*

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.

Sales

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Applications

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LIDAR
Scientific
Medical



Vertically Integrated



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* Proper laser safety procedures should always be followed when operating a laser of any wavelength.

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