

EVERESTpico™ 1 μm Picosecond Fiber Laser

AP-1030P

Applications:

- Laser cutting, drilling and scribing (glass, sapphire, silicon, silicon carbide, ceramics, nitinol stents, CFRP, PCD and CVD diamond)
- Laser thin film patterning (TCO, metal, thin film solar cells)
- 2.5D surface shaping (metals, ceramics, plastics)
- Laser marking (glass, sapphire, silicon carbide, silicon, metals, plastics)

Features:

- Picosecond pulses
- High pulse energy and peak power
- High repetition rate capability
- Near diffraction limited beam quality
- Rugged OEM package and compact size



Optical Characteristics:

Parameter	Specification		
Operation mode	Pulsed		
Operating wavelength	1030 nm		
Average power	15 W	20 W	50 W
Pulse energy	30 μJ	40 μJ	50 μJ
Pulse repetition rate	500 kHz	500 kHz	1 MHz
Pulse width	50 ps	50 ps	50 ps
Beam quality, M ²	< 1.2		
Output power stability	Within ±5%		
Output delivery	Collimated output beam		

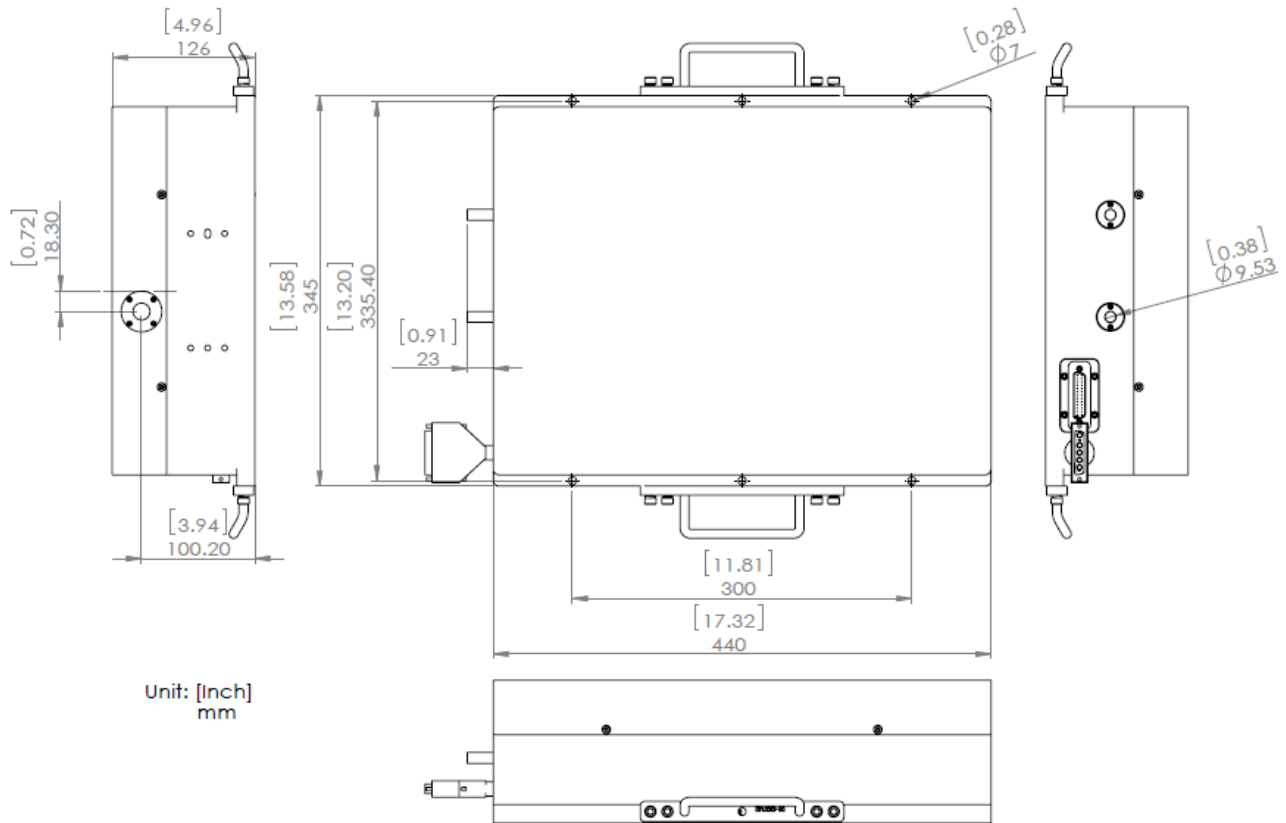
(For custom requirements, please contact AdValue Photonics)

Specifications subject to change without notice

General Characteristics:

Parameter	Specification
Operating temperature	10 to +30 °C
Storage temperature	+5 to +70 °C
Cooling	Water cooled (portable recirculating chiller available as an option)
Power requirement	AC 100~240 V (50/60Hz) (operating with AdValue Photonics Control Unit)
Warm-up time	10 minutes
Package dimensions	345(W) x 440(D) x 126(H) mm

Mechanical Outline:



Ordering Information:

Part Number: AP - 1030P - xx - xxx

Standard Wavelength:
1030 = 1030 nm
Pulse Width:
Picoseconds

Output Power:
10 = 10 W
20 = 20 W

Pulse Energy:
040 = 40 µJ

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