AOPico Montauk Series

Industrial IR picosecond laser

- < Maximum pulse energy up to 3mJ
- < POD function available
- < 1 ~ 10 pulses burst mode available
- < Excellent beam quality (M² < 1.3)
- < Laser output power can be controlled through external analog voltage signal
- < Real-time laser status monitoring and intelligent diagnosis



► Features & Benefits:

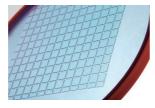
AOPico Montauk IR picosecond lasers feature excellent beam quality ($M^2 < 1.3$) with beam roundness is up to 90%. The pulse stability and power stability of the laser are excellent. The output power of the laser ranges from 30W to 100W.

The lasers can be controlled viaexternal gate/trigger signals. Both high/low level gate and rising/faling edge trigger are available. The rising/falling edge trigger mode enables Pulse-on-demand (POD) functionality. In addition, the output power of the laser can be controlled through external analog voltage signal. The lasers also have the functions of automatic crystal indexing function, power display, laser status real-time monitoring, and intelligent diagnosis. Through the use of various internal sensors, the laser status is completely monitored, which enables remote trouble-shooting and recovery. The user experience is greatly improved as the laser is user-friendly.

With these advantages, AOPico Mantauk picosecond IR lasers are the best choice for the applications of cutting various transparent brittle materials such as glass, sapphire, and full-screen displays. It not only cuts a wide range of thicknesses with good quality (virtually no dust, no burrs, debris, microcracks), but also allows for cutting of almost any shape with minimal taper (straight lines, curves, circular holes, etc.).



Sapphire cutting



Glass cutting

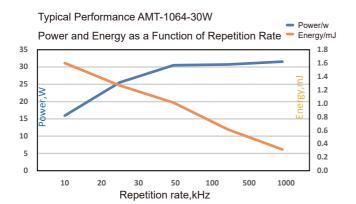


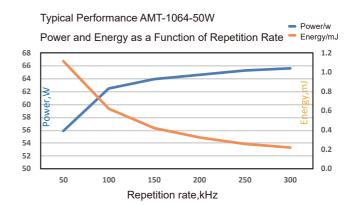
Metal etching

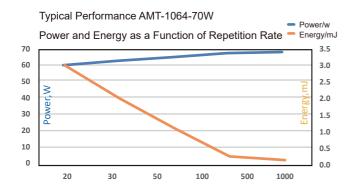


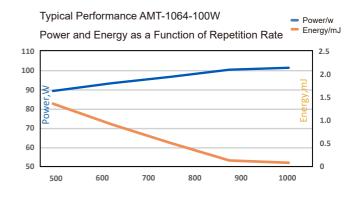
Full-screen cutting









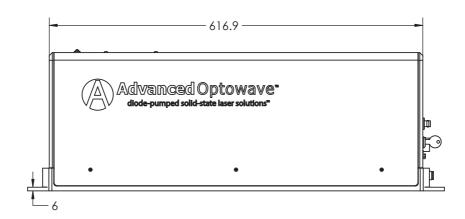


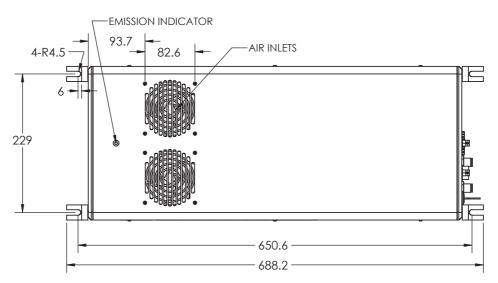
	AOPico Montauk 1064			
Specification	30W-100K	50W-50K	70W-20K	100W-1000K
Wavelength (nm)	1064			
Average Power (Watts)	> 30	> 50	>70	> 100
Energy (μJ)	300@100KHz	1000@50KHz	3500@20KHz	100@1000KHz
Specified Repetition Rate(kHz)	100	50	20	1000
Repetition Rate (kHz)	100~1000	50~300	20~100	500~1000
Pulse Width (ps)	< 15			
Beam Quality (M²)	< 1.3	< 1.3	< 1.3	< 1.3
Beam Roundness (%)	> 90			
Beam Diameter (mm)	< 3			
Beam Divergence (mRad)	< 2			
Point Stability (μrad/°C)	< 20			
Polarization Ratio	100:1 Linear, Horizontal			
Pulse-to-Pulse Stability (% RMS)	< 2			
Average Power Stability(% over12 hours)	< 3			
Cold Start Warm-Up (mins.)	< 40			
Standby Warm-Up (mins.)	< 10			
Operational Temperature Range (°C)	15-35°C			
Operation Humidity Range (%)	20 to 80, Non-condensing			
Storage Temperature Range (°C)	- 20 to 50			
Storage Humidity Range (%)	20 to 80, Non-condensing			
Input Voltage (VDC)/Rated Power(W)	24/1000 36/1600			36/1600
Communication	RS232			
Cooling	Water			

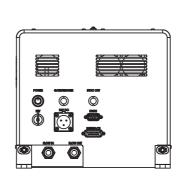
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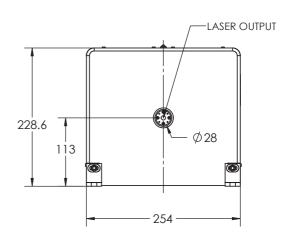
AOPico Montauk series

AOPico Montauk 1064 - 30W Laser CAD Drawing





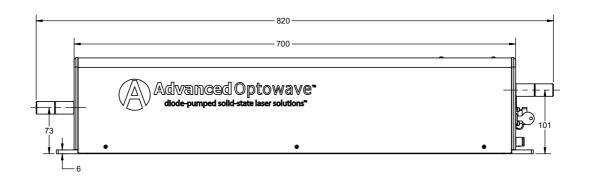


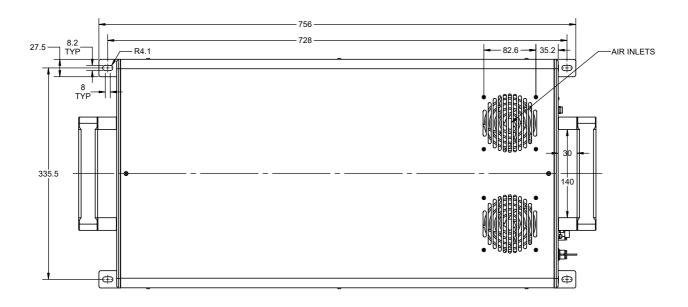


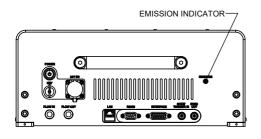


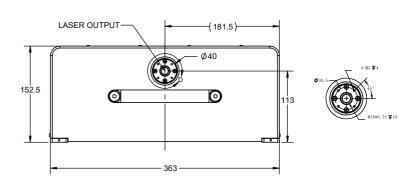
AOPico Montauk series

AOPico Montauk 1064 - 50W、60W、70W Laser CAD Drawing









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