

AOPico Montauk Series

Industrial UV picosecond laser

- < Beam roundness up to 95%
- < Excellent beam quality ($M^2 < 1.1$)
- < Laser output power can be controlled through external analog voltage signal
- < Automatic crystal indexing and output power display
- < Real-time laser status monitoring and intelligent diagnosis
- < Both edge trigger and level trigger are available, the profile of the burst can be edited



► Features & Benefits :

AOPico Montauk-355 picosecond UV lasers feature a world-leading third-harmonic generation technology, a fully automatic crystal indexing technology, and a beam shaping technology.

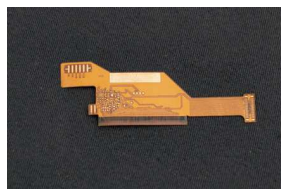
AOPico Montauk picosecond UV lasers feature excellent beam quality ($M^2 < 1.1$), low divergence, and small astigmatism with beam roundness is up to 95%. The pulse stability and power stability of the laser are excellent. The output power of the laser is in the range from 15 W to 50 W. Laser models with an output power above 15W adopt a more compact all-in-one design.

The lasers can be controlled via external gate/trigger signals. Both high/low level gate and rising / falling 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 diagnostics. Through the use of various internal sensors, the laser status is completely monitored, which enables remote troubleshooting and recovery. The user experience is greatly improved as the laser is user-friendly.

With these advantages, AOPico Mantauk picosecond UV lasers are the best choice for the applications of OLED cutting and drilling, PI/FPC cutting, and mobile phone antenna cutting.



PI cutting



FPC cutting



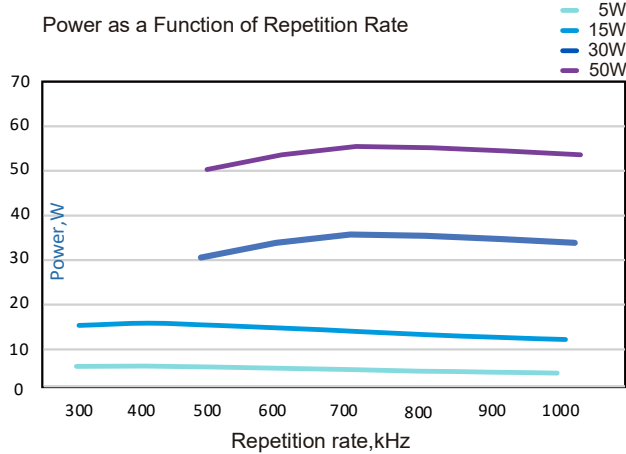
OLED cutting



Polarizer cutting

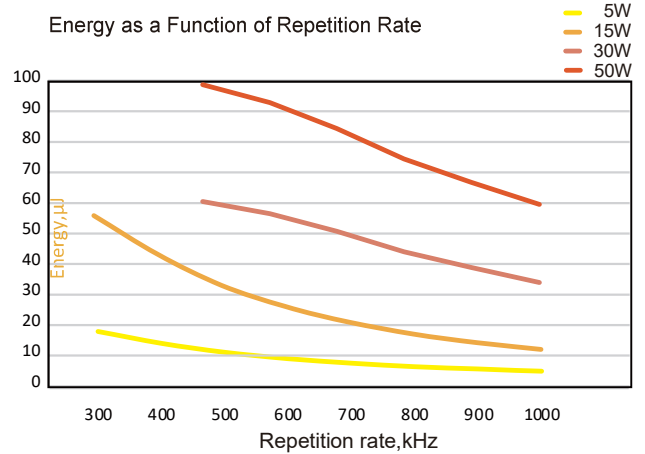
Typical Performance AOPico Montauk-355-5W/15W/30W/50W

Power as a Function of Repetition Rate



Typical Performance AOPico Montauk-355-5W/15W/30W/50W

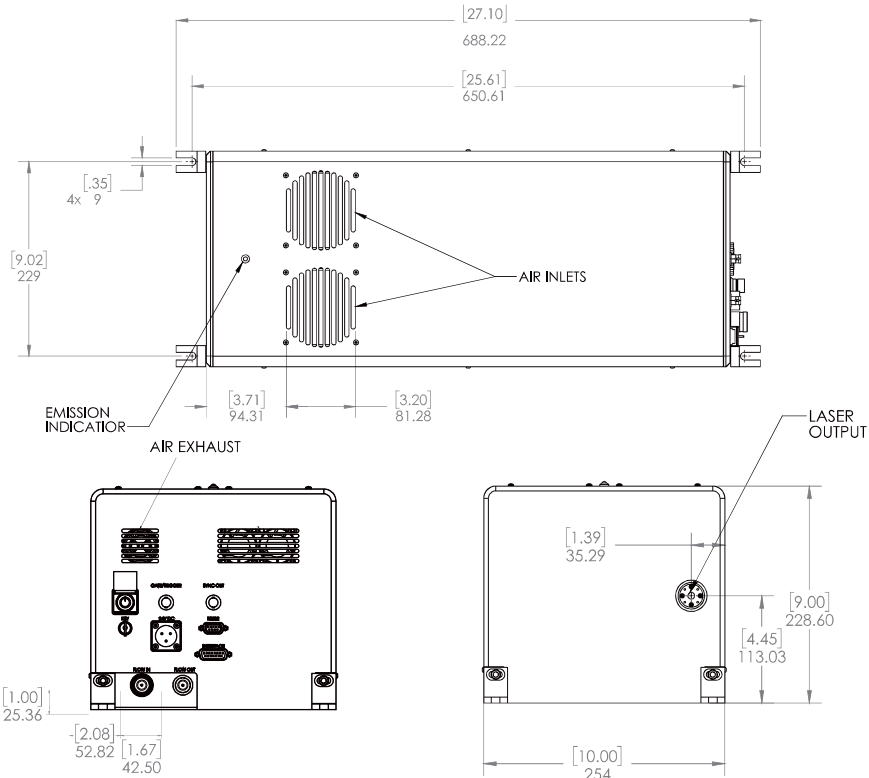
Energy as a Function of Repetition Rate



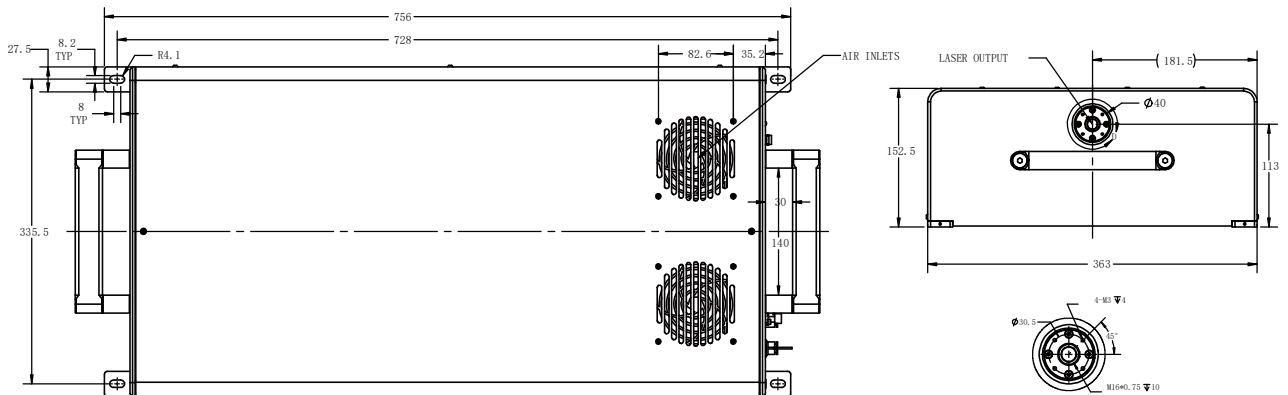
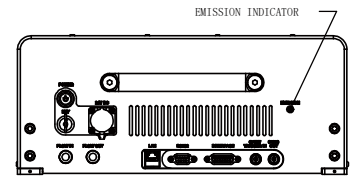
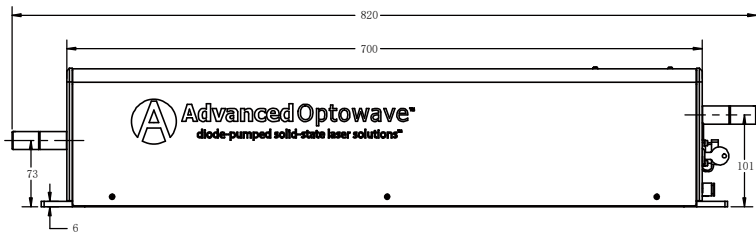
AOPico Montauk 355				
Specification	5W-500K	15W-500K	30W-1000K	50W-1000K
Wavelength (nm)	355			
Average Power (Watts)	> 5W	> 15W	> 30W	> 50W
Energy (µJ)	>10@500KHz	30@500KHz	>30@1000KHz	>50@1000KHz
Specified Repetition Rate(kHz)	500	500	1000	1000
Repetition Rate (kHz)	300-1000	300-1000	500-2000	500-2500
Pulse Width (ps)	<12	<12	<12	<12
Beam Quality (M ²)	≤1.1			
Beam Roundness (%)	> 90			
Beam Diameter (mm)	3 ~ 4		3 ~ 3.5	
Beam Divergence (mRad)	< 2			
Point Stability (µrad/°C)	< 20			
Polarization Ratio	100:1 Linear, Horizontal			
Pulse-to-Pulse Stability (% RMS)	< 2			
Average Power Stability(% over 12 hours)	< 3			
Cold Start Warm-Up (mins.)	< 40			
Standby Warm-Up (mins.)	< 15			
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)	24/600	24/1000		
Communication	RS232			
Cooling	Water			

AOPico Montauk SERIES

AOPico Montauk -355 Laser CAD Drawing



AOPico Montauk-355-5W



AOPico Montauk-355-15W,30W