

AONano Precision SERIES

Industrial deep UV nanosecond laser



Features & Benefits:

AONano Precision-266nm nanosecond laser adopts the industry-leading harmonic generation technology and outputs deep UV wavelength 266nm, power up to 3W. The reliable power stability (<3%), excellent beam quality ($M^2 < 1.2$), and beam roundness (>85%), making it achieve excellent laser processing quality.

The water-cooled cooling style, solid cavity structure, and stable design make it a perfect combination of performance and stability and is applied for various challenging applications.

AONano Precision-266nm nanosecond lasers can be triggered by internal and external control signals to achieve synchronous output. They are widely applied in peel-off GaN from Sapphire, non-carbonized cold processing, glass grain lift-off, chip inspection, and other fields. It is a very cost-effective product.



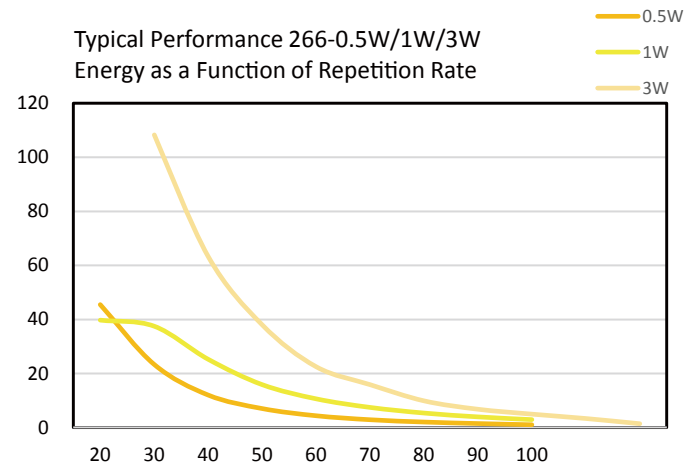
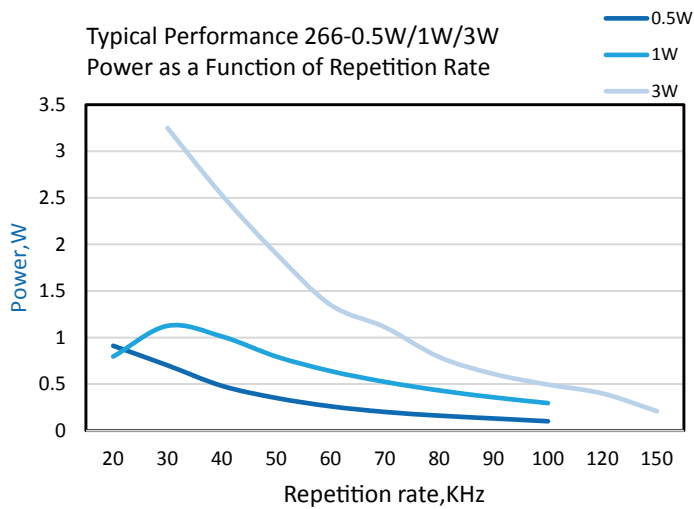
wafer marking



sapphire GaN lift off



mini/micro led lift off



AONano Precision 266nm			
Specification	0.5W - 30K	1W - 30K	3W - 30K
Wavelength (nm)	266		
Average Power (Watts)	>0.5W	>1W	>3W
Energy (µJ)	>16	>32	>100
Specified Repetition Rate(kHz)	30	30	30
Repetition Rate (kHz)	~300	30-150	30-150
Pulse Width (ns)	<15	<15	<15
Beam Quality (M ²)	<1.2		
Beam Roundness (%)	>85		
Beam Diameter (mm)	~3	~3	3.1±0.1
Beam Divergence (mRad)	<1	<1	<1.6
Point Stability (µrad/°C)	< 20		
Polarization Ratio	100:1 Linear,Horizontal		
Pulse-to-Pulse Stability (% RMS)	< 3	< 3	< 2
Average Power Stability(% over12 hours)	< 3	< 3	< 3
Cold Start Warm-Up (mins.)	< 40		
Standby Warm-Up (mins.)	< 10		
Operational Temperature Range (°C)	15 to 35		
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		
Communication	RS232		
Cooling	Water		
Weight (kg)	55		

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AONano Precision Laser Size

