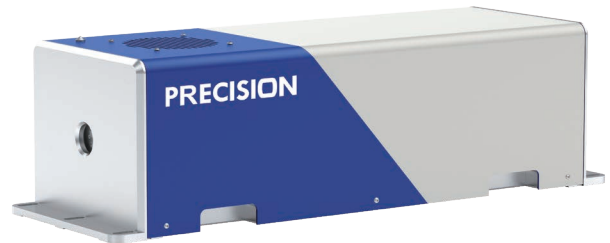


AONano Precision Series

Industrial Deep UV nanosecond laser

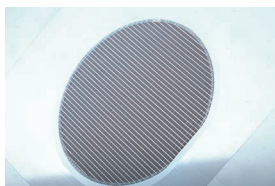
- < Industry-leading harmonic generation
- < Deep UV wavelength of 266 nm
- < Cost-effective product
- < Industrial grade DUV nanosecond laser
- < Excellent beam quality
- < Long term stability and reliability



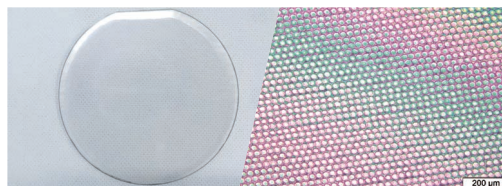
► Features & Benefits:

This is a water-cooled deep UV nanosecond laser with output wavelength of 266 nm. With the industrial-leading harmonic generation technology and engineering design, it has high conversion efficiency, excellent long-term stability and long lifetime. The water-cooled design allows the laser to work reliably in various harsh and extreme environments and makes the laser to be the ideal candidate for the 7x24 non-stop production needs.

The output power of 0.15W, 0.5W, 1W and 3W are available for selection. With the wide range of repetition rate, excellent beam quality ($M^2 < 1.2$) and beam roundness ($> 90\%$), it is the perfect candidate for various application areas, including peeling-off GaN from Sapphire, non-carbonized cold processing, glass grain lifting-off, chip inspection and so on.



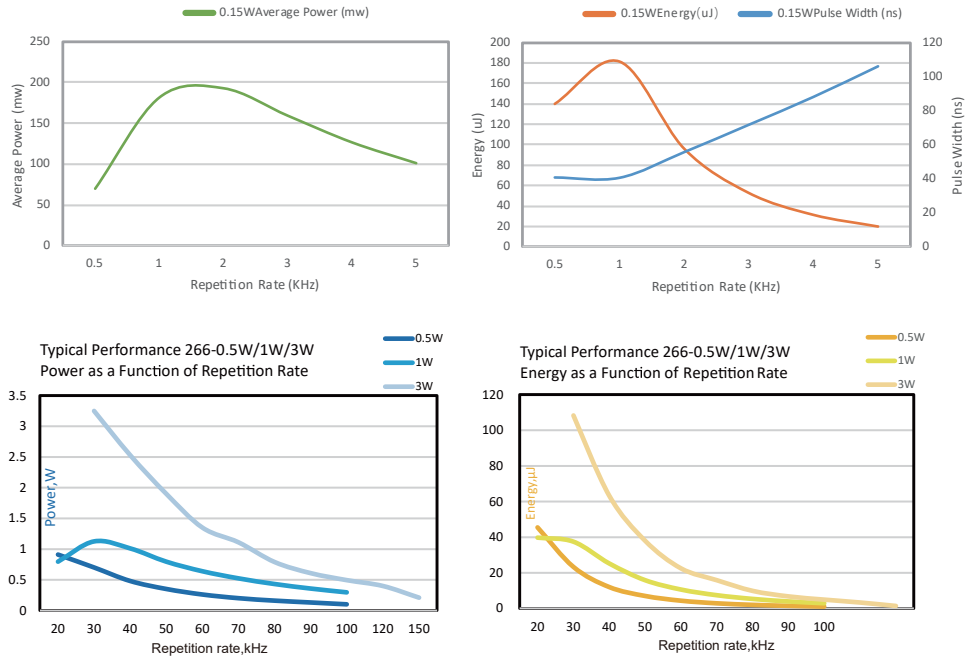
Wafer marking



Sapphire GaN lift off



Mini/micro led lift off



AONano Precision 266				
Specification	0.15W - 1K	0.5W - 30K	1W - 30K	3W - 30K
Wavelength (nm)	266			
Average Power (Watts)	>0.15W	>0.5W	>1W	>3W
Energy (μJ)	>150@1KHz	>16@30KHz	>32@30KHz	>100@30KHz
Specified Repetition Rate(kHz)	1	30		
Repetition Rate (kHz)	0.5-5	20-150	20-150	30-150
Pulse Width (ns)	~40	<15		
Beam Quality (M ²)	<1.2	<1.3		
Beam Roundness (%)	>85	>90		
Beam Diameter (mm)	~1.5	~1.9		
Beam Divergence (mRad)	<1			
Point Stability (μrad/°C)	< 20			
Polarization Ratio	100:1 Linear,Horizontal			
Pulse-to-Pulse Stability (% RMS)	< 2	< 3	< 2	< 2
Average Power Stability(% over12 hours)	< 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 / 200	24 / 600		
Power Consumption(W)	< 150	< 150	< 200	< 300
Communication	RS232			
Cooling	Water			
Weight (kg)	55			

AONano Precision SERIES

AONano Precision Laser CAD Drawing

