

DATA SHEET UV LASER SERIES

RAMAN

HOLOGRAPHY

LIFE SCIENCES

SEMICONDUCTORS

Duetto 349 Single Frequency CW UV Laser



The Duetto 349 UV Series offers unrivalled CW single frequency operation within the UV range, offering 50 mW power with outstanding beam characteristics, high output stability, extremely low noise, small footprint, and versatile software package – making it suitable for a wide range of applications and system integrations.

KEY FEATURES



Ultra-narrow Linewidth ≤ 0.5 MHz

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High Power Stability ≤ 2.0 % over 8 hours



High Spectral Stability ± 1 pm over 8 hours



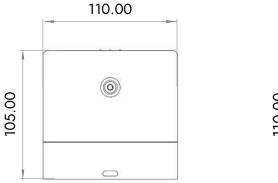
Designed for Integration

APPLICATIONS

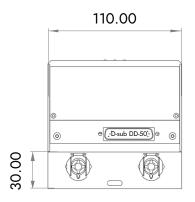
Semiconductor Inspection - Wafer Fabrication -Lithography - Confocal Microscopy - Raman Spectroscopy - Biomedical/Bioengineering -Flow Cytometry - Fluorescence - Disc Mastering - Diffraction Grating Mastering - High Precision Optics - and more.

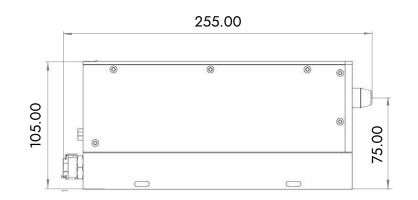
Specifications				
Output Beam Parameters:				
Output Power	50 mW			
Wavelength	349 nm			
Spectral Bandwidth	\leq 0.5 MHz			
Spatial Mode	TEM _{oo}			
Spectral Stability	± 1.0 pm (over 8 hour operation)			
Coherence Length	> 100 m			
Output Power Stability	≤ 2.0 % (over 8 hour operation)			
Output Power Noise	≤ 0.1 % RMS (10 Hz – 10 MHz)			
Beam Divergence	≤ 2.5 mrad, diffraction limited			
Beam Diameter at Output Aperture	0.6 – 1.2 mm			
Beam Pointing Stability	≤ 5 µrad/°C			
Integration Features:				
Plug-In USB Connectivity	Combined Heatsink			
Versatile Control Software	Remote Diagnostic Support			
Laser Head Dimensions:				
L x W x H	222 x 110 x 105 mm			
Beam Height	75 mm			
Environmental Conditions:				
Ambient Temperature Range	18 – 30 °C			
Laser Head Interface Stability	± 1.5 ℃			
Storage	0 – 50 °C			
Humidity	5 – 95 %, non-condensing			
Laser Head	Hermetically sealed			
Optional Accessories:				
Heatsink	Fan-Assisted			
	Water-Cooled with Thermoelectric Chiller			
External Manual Power Control	0 – 100 %, continuous			
Warranty:				
12 Month Warranty	For laser head and controller			

Laser and Heatsink Dimensions 255 x 110 x 105 mm



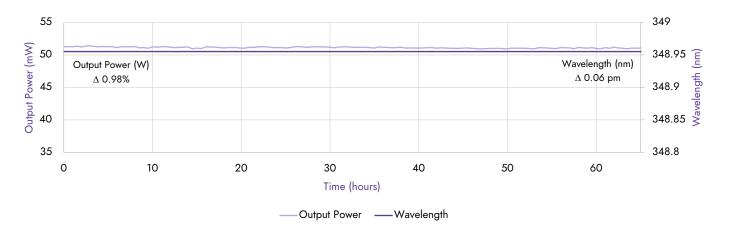






Performance Data

Longterm Wavelength and Power Stability





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