长春新产业光电技术有限公司
Changchun New Industries Optoelectronics Tech. Co.,Ltd.

DATA SHEET

UV-FN series

LD PUMPED ALL-SOLID-STATE UV LASER

All solid state UV laser is made features of high output power stability, good beam profile, ultra compact, long lifetime, low cost and easy operating, which is widely used in collimation, laser medical treatment, scientific experiment, optical instrument, etc.

SPECIFICATIONS

Wavelength (nm)	261±1	273±1	303±1	320±1	335±1	349±1	355±1	360±1
Operating mode	CW							
Output power (mW)	1-10	1-5	1-5	1-30	1-60	1-150	1-30	1-100
Power stability (rms, over 4 hours)	<10%	<10%	<10%	<3%, <2%	<5%, <3%	<5%, <3%	<5%, <3%	<3%, <2%, <1%
Transverse mode	Near TEM$_{00}$			TEM$_{00}$	Near TEM$_{00}$	TEM$_{00}$	Near TEM$_{00}$	TEM$_{00}$
M^2 factor	/		<2.0	<2.0	<2.0	<1.5	<1.5	<2.0
Beam diameter at the aperture (1/e^2, mm)	<2.0	~1.5	<1.5	<1.0	<1.2	<1.2	<1.2	<1.2
Beam divergence, full angle (mrad)	<6.0			<2.5	<2.5	<1.2	<1.5	<1.0
Polarization Ratio	>50:1, Vertical (Horizontal Optional)	>50:1, Horizontal (Vertical Optional)					>50:1, Vertical (Horizontal Optional)	>50:1, Horizontal (Vertical Optional)
Warm-up time (minutes)	<10							
Pointing stability after warm-up (mrad)	<0.05							
Beam height from base plate (mm)	27.4							
Operating Temperature (°C)	10-35							
Modulation option	TTL on/off, 1Hz-1kHz, 1kHz-10kHz; and Analog modulation optional							
Power supply (90-264VAC)	PSU-H-FDA/PSU-SR	PSU-H-LED/PSU-H-FDA/PSU-SR					PSU-H-FDA/PSU-SR	PSU-H-LED/PSU-H-FDA/PSU-SR
Warranty	1 year							

Note: The laser head needs to be used on a heat sink with good heat dissipation.

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LASER HEAD(UV-FN-261/ 273)	LASER HEAD (UV-FN-303/ 335/ 349/ 355/ 360(≤50mW))	LASER HEAD(UV-FN-320/ 360(50-100mW))
212(L)×70(W)×50(H) mm³, 1.5kg	197(L)×70(W)×50(H) mm³, 1.5 kg	207(L)×70(W)×50(H) mm³, 1.5kg

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POWER SUPPLY (PSU-H-LED)	POWER SUPPLY (PSU-H-FDA)	POWER SUPPLY (PSU-SR)
273.6 (L) ×145(W) ×106 (H) mm³, 2.3 kg	**276.6(L) ×145(W) ×103.6(H) mm³, 2.3 kg**	**188(L) ×145(W) ×83(H) mm³, 1.2kg**