

NEWOPTO TECHNOLOGY CORPORATION

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新势力光电 供应 [连续激光器](#) (单纵模/单频激光器), 该系列激光器具有带宽窄和相关长度长的特点。激光波长包括: 355nm、457nm、473nm、491nm、515nm、532nm、561nm、594nm、660nm、1064nm。

Cobolt 04-01 系列 / Cobolt 05-01 系列的 [半导体泵浦固体激光器](#), 可以单独应用于实验室研究, 也可以用于 OEM 系统集成, 包括: 荧光显微镜、流体细胞仪、DNA 测序、拉曼光谱、全息分析和粒子分析。

Cobolt 04-01 Series

Specifications	Wavelength [nm]	Power [mW]
Cobolt Twist	457 ± 0.3	25 / 50
Cobolt Blues	473 ± 0.3	25 / 50
Cobolt Calypso	491.5 ± 0.3	25 / 50 / 75 / 100
Cobolt Dual Calypso	491.5 + 532 ± 0.3	20 + 20 / 50 + 50
Cobolt Fandango	515 ± 0.3	25 / 50 / 100 / 150
Cobolt Samba	532 ± 0.3	25 / 50 / 100 / 150 / 300
Cobolt Jive	561 ± 0.3	25 / 50 / 75 / 100 / 150
Cobolt Mambo	594 ± 0.3	25 / 50 / 100
Spectral linewidth	< 1 MHz (< 0.01 pm)	
Wavelength stability	± 0.02 nm, typical 2 pm over ± 2 °C and 8 hours	
Spatial mode	TEM00, M2 < 1.1	
Beam diameter at aperture	700 um	
Beam divergence (full angle)	< 1.2 mrad	
	Twist, Blues, Fandango, Samba, Jive	Calypso, Mambo
Noise, 20 Hz - 20 MHz (pk - pk)	< 2%, typical < 1.5%	< 3%, typical < 2%
Noise, 20 Hz - 20 MHz (rms)	< 0.25%, typical < 0.15%	< 0.3, typical < 0.2%
Long-term stability (8 hours)	< 2% (±3 °C)	< 3% (±3 °C)
Beam pointing stability (over 10 - 40 °C)	< 10 urad / °C, typical 5 urad / °C	
Polization ratio	> 100:1	

杭州新势力光电技术有限公司

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Total system power consumption	< 35 W, typical < 15 W	
Operating temperature	10 - 40 °C	
Maximum laser head baseplate temp.	50 °C	
Recommended heat sink thermal resistance	0.5 K / W	
Laser head dimensions [mm]	103 × 60 × 40	
Controller dimensions [mm]	190 × 72 × 28	
Communication	RS - 232 or USB	
Model number structure	CDRH (key-switch for on / off)	OEM (auto - start mode)
RS - 232 driver	wavel-04-01-pwr-300	wavel-04-01-pwr-400
USB driver	wavel-04-01-pwr-700	wavel-04-01-pwr-800
Warranty	24 months	
Options & Accessories	Customized controller cable	
	Communication cable (RS - 232 / USB)	
	Permanent SM / PM fiber pigtailling	
	Laser head heatsink	
	Mount for external fiber coupling	
	Two lasers in one with Dual Combiner	
	Integrated optical isolator	

Cobolt 05-01 Series

Specifications	Wavelength [nm]	Power [mW]
Cobolt Zouk	354.8 ± 0.3	10
Cobolt Samba	532 ± 0.3	500 / 1000
Cobolt Jive	561 ± 0.6	200 / 300 / 500
Cobolt Flamenco	660 ± 0.6	100 / 300 / 400
Cobolt Rumba	1064 ± 0.6	500 / 1000 / 2000
Spectral linewidth	< 1 MHz (< 0.01 pm)	
Spatial mode	TEM00, M2 < 1.1	
Beam diameter at aperture	700 um for Zouk, Samba, Jive, Flamenco	
	1.0 mm for Rumba	
Beam divergence (full angle)	< 0.8 mrad for Zouk, < 1.2 mrad for Samba, Jive	
	< 1.5 mrad for 1.5 mrad, < 1.6 mrad for Rumba	
	Zouk	Samba, Jive, Flamenco, Rumba

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Noise, 20 Hz - 20 MHz (pk - pk)	< 2%	< 1%
Noise, 20 Hz - 20 MHz (rms)	< 0.2%	< 0.1%
Long-term stability (8 hours)	< 2% (±3 °C)	
Beam pointing stability (over 10 - 40 °C)	< 10 urad / °C, typical 5 urad / °C	
Polization ratio	> 100:1	
Total system power consumption	< 63 W, typical < 30 W	
Operating temperature	10 - 40 °C	
Maximum laser head baseplate temp.	50 °C	
Recommended hear sink thermal resistance	0.2 K / W	
Laser head dimensions [mm]	125 × 70 × 45	
Controller dimensions [mm]	190 × 72 × 28	
Communication	RS - 232 or USB	
Model number structure	CDRH (key-switch for on / off)	OEM (auto - strart mode)
RS - 232 driver	wavel-05-01-pwr-500	wavel-05-01-pwr-600
USB driver	wavel-05-01-pwr-700	wavel-05-01-pwr-800
Warranty	12 months	
Options & Accessories	Communication cable (RS - 232 / USB)	
	Laser head heatsink	
	Mount for external fiber coupling	