

**NEWOPTO TECHNOLOGY CORPORATION**
**Updated: 2012.05**
**单频激光器**


新势力光电供应**单频激光器**，该系列**单频激光器**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**单纵模激光器**/Cobolt 05-01 系列**单频激光器**，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 for SLM DPSS Lasers**

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%

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Long-term stability (8 hours)	< 2% ( $\pm 3$ °C )	< 3% ( $\pm 3$ °C )
Beam pointing stability (over 10 - 40 °C)	< 10 urad / °C, typical 5 urad / °C	
Polization ratio	> 100:1	
Total system power consumption	< 35 W, typical < 15 W	
Operating temperature	10 - 40 °C	
Maximum laser head baseplate temp.	50 °C	
Recommended hear 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 - strart 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 for Single Frequency DPSS Lasers

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	

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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
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% ( $\pm 3$ °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 x 70 x 45	
Controller dimensions [ mm ]	190 x 72 x 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	