

Direct系列

特点：

- 波长375 nm-1550 nm，功率高达2 W
- 低噪音、单纵模
- 优异的光束指向稳定性与功率稳定性
- 超紧凑结构设计，易于OEM封装
- 高达200 MHz的高速调制
- 自由空间出射、光纤耦合出射



应用：全息、流式细胞学、荧光光谱、共聚焦显微分析、拉曼光谱

指标参数 Stabilized 375/405/445/456/473/390-488 nm Violet-blue Lasers

Wavelength	Option ± 1 nm	Model No.	Low noise version			Model No.	SLM version		
375 ± 5 nm		DL-375-060	60 mW	DL-375-015	15 mW	DL-375-015-S	15 mW	DL-375-005-S	5 mW
	*150 mW, 375 nm laser see last line	DL-375-030	30 mW	DL-375-005	5 mW	DL-375-010-S	10 mW		
405 ± 5 nm		DL-405-250	250 mW	DL-405-050	50 mW	DL-405-050-S	50 mW	DL-405-020-S	20 mW
		DL-405-150	150 mW	DL-405-020	20 mW	DL-405-040-S	40 mW	DL-405-010-S	10 mW
		DL-405-100	100 mW	DL-405-005	5 mW	DL-405-030-S	30 mW	DL-405-005-S	5 mW
445 ± 5 nm	Wavelength Selection from 390 nm to 495 nm available	DL-445-080	80 mW	DL-445-020	20 mW	DL-445-030-S	30 mW	DL-445-010-S	10 mW
		DL-445-050	50 mW	DL-445-010	10 mW	DL-445-020-S	20 mW	DL-445-005-S	5 mW
473 ± 5 nm	456nm \pm 5nm available	DL-473-080	80 mW	DL-473-020	20 mW	DL-473-020-S	20 mW	DL-473-005-S	5 mW
488 ± 5 nm		DL-488-150	150 mW	DL-488-050	50 mW	DL-488-020-S	20 mW		
		DL-488-100	100 mW	DL-488-020	20 mW	473 nm laser up to 150 mW DPSS laser available			
Longitudinal mode		Multiple			Single				
Spectrum linewidth		1 nm, typical			< 0.0001 nm				
Coherence length		< 0.3 mm			> 20 meters				
Output noise (rms, 10Hz-50MHz)		< 0.5 %			< 0.5 %				
Output stability over 24 hours (rms)		< 1 %; Option: ultra-stable version <0.25%			2 %				
Modulation options		TTL 50kHz, 20MHz, 100 MHz, 200MHz; Analog control, Analog modulation			TTL on/off option				
Transverse mode		Circular beam, close to TEM ₀₀ , M ² = 1.1 - 1.3							
Beam diameter (1/e ²)		1.1 mm	Option: 0.8 mm beam with 0.9 mrad divergence						
Beam divergence		0.6 mrad							
Beam pointing stability		< 0.005 mrad/°C							
Polarization ratio		100:1; Vertical linear polarization							

CW Red Infrared Lasers 633-780 nm

Wavelength	Option ± 1 nm available	Low noise version, Model No.			SLM version, Model No.				
633 ± 1 nm		DL633-080	80 mW	DL635-025	25 mW	DL633-050-S	50 mW	DL633-025-S	25 mW
		DL633-050	50 mW						
635 ± 1 nm		DL635-080	80 mW	DL635-025	25 mW	DL635-050-S	50 mW	DL635-025-S	25 mW
638 ± 2 nm		DL638-120	120 mW	DL638-050	50 mW	DL638-100-S	100 mW	DL638-050-S	50 mW
		DL638-070	70 mW	DL638-025	25 mW	DL638-070-S	70 mW	DL638-025-S	25 mW
642 ± 4 nm		DL640-100	100 mW	DL640-050	50 mW	DL640-070-S	70 mW	DL640-025-S	25 mW
	647 ± 1 nm option available	DL640-070	70 mW	DL640-025	25 mW	DL640-050-S	50 mW		
660 ± 5 nm		DL660-100	100 mW	DL660-025	25 mW	DL660-050-S	50 mW	DL660-025-S	25 mW
	655 ± 1 nm option available	DL660-050	50 mW						
690nm, 705nm, 730 nm ± 5 nm		DL690-050	50 mW	DL730-050	50 mW	DL690-050-S	50 mW	DL690-030-S	30 mW
785 ± 5 nm	780 nm SLM available	DL785-120	120 mW	DL785-100	100 mW	DL785-120-S	120 mW	DL785-100-S	100 mW
Longitudinal mode		Multiple			Single longitudinal mode				
Spectrum linewidth		1 nm, typical			< 0.00001 nm or <10 MHz				
Coherence length		< 0.3 mm			> 10 meters or >100 meters option				
Output noise (rms, 10Hz-50MHz)		< 0.5 %			< 0.5 %				
Output stability over 24 hours (rms)		< 1 %; Option: ultra-stable version < 0.25%			2 % Option: ultra-stable version < 0.5%				
Modulation options		TTL 200Hz, 50kHz, 20MHz, 100 MHz, 200MHz; Analog control, Analog modulation			TTL on/off option				
Transverse mode		Circular beam, close to TEM ₀₀ , M ² = 1.1 - 1.3							
Beam diameter (1/e ²)		1.1 mm	Option: 0.7X - 3X laser beam expanders are available to change beam size and divergence. e.g. 0.8 mm beam with 1.3 mrad divergence; or 2.5 mm beam with 0.4 mrad divergence						
Beam divergence		1 mrad							
Beam pointing stability		< 0.005 mrad/°C							
Polarization ratio		100:1; Vertical linear polarization							

小型半导体/固体激光器---连续激光器

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CW Red Infrared Lasers 808-980 nm

Wavelength	Option ± 1 nm available	Low noise version, Model No.				SLM version, Model No.			
808 ± 5 nm		DL808-100	100 mW	DL808-400	400 mW	DL808-100-S	100 mW	DL808-150-S	120 mW
830 ± 5 nm		DL830-100	100 mW	DL830-500	500 mW	DL830-100-S	100 mW	DL830-050-S	50 mW
852 ± 5 nm		DL852-100	100 mW	DL852-500	500 mW	DL852-100-S	100 mW		
910 ± 5 nm		DL910-100	100 mW	DL910-150	150 mW	DL910-100-S	100 mW	DL910-050-S	50 mW
940 ± 5 nm		DL940-100	100 mW	DL940-250	250 mW	DL940-100-S	100 mW	DL940-050-S	50 mW
980 ± 5 nm		DL980-100	100 mW	DL980-200	200 mW	DL980-100-S	100 mW	DL980-050-S	50 mW
		DL980-350	350 mW	DL980-500	500 mW				
Longitudinal mode		Multiple				Single			
Spectrum linewidth		1 nm, typical				< 0.0001 nm			
Coherence length		< 0.3 mm				> 10 meters			
Output noise (rms, 10Hz-50MHz)		< 0.5 %				< 0.5 %			
Output stability over 24 hours (rms)		< 1 %; Option: ultra-stable version < 0.25%				2 % Option: ultra-stable version < 0.5%			
Modulation options		TTL 200Hz, 50kHz, 20MHz, 100 MHz, 200MHz; Analog control, Analog modulation				TTL on/off option			
Transverse mode		Circular beam, single mode, TEM ₀₀ , M ² = 1.1 - 1.3							
Beam diameter (1/e ²)		1.1 mm	Option: 0.7X - 3X laser beam expanders are available to change beam size and divergence.						
Beam divergence		1.2 mrad	e.g. 0.8 mm beam with 1.5 mrad divergence; or 2.5 mm beam with 0.5 mrad divergence						
Beam pointing stability		< 0.005 mrad/°C							
Polarization ratio		100:1; Vertical linear polarization							
Operation temperature		5 °C to 40 °C, internal TEC temperature-stabilized							
Warm-up time		< 30 seconds							
Operation voltage		90-250 VAC or 12VDC OEM version 11-16VDC							
Dimensions and weight of laser head		3 x 3.6 x 13.5 cm ³ (1.2 x 1.4 x 5.3 in ³), 0.3 kg (0.6 lb)							
Dimensions and weight of power supply		Standard AC: 5 x 14 x 15 cm ³ (2 x 5.5 x 6 in ³), 0.5 kg (1 lb);				CL-2005 AC: 5 x 16 x 15 cm ³ 12 VDC OEM version: Integrated inside the laser head.			

CW Red Infrared Lasers 1550 nm

Wavelength	Option ± 1 nm available	TEM ₀₀ mode, Model No.		SLM version, Model No.	
1550 ± 5 nm		DL1550-080	80 mW	DL1550-800-S	800 mW
		DL1550-050	50 mW	DL1550-500-S	500 mW
1550 ± 5 nm	SM Fiber coupled			DL1550-025-SF	25 mW
Longitudinal mode		Multiple		Single	
Spectrum linewidth		1 nm, typical		< 0.0001 nm	
Coherence length		< 0.3 mm		> 20 meters	
Output noise (rms, 10Hz-50MHz)		< 0.5 %		< 0.5 %	
Output stability over 24 hours (rms)		< 1 %; Option: ultra-stable version < 0.25%		2 % Option: ultra-stable version < 0.5%	
Modulation options		TTL 200Hz, 50kHz, 20MHz, 100 MHz, 200MHz; Analog control, Analog modulation		TTL on/off option	
Transverse mode		Circular beam, single mode, TEM ₀₀ , M ² = 1.1 - 1.3			
Beam diameter (1/e ²)		1.2 mm	Option: 0.7X - 3X laser beam expanders are available to change beam size and divergence.		
Beam divergence		1.8 mrad	e.g. 0.8 mm beam with 2.5 mrad divergence; or 2.5 mm beam with 0.8 mrad divergence		
Beam pointing stability		< 0.005 mrad/°C			
Polarization ratio		100:1; Vertical linear polarization			
Operation temperature		5 °C to 40 °C, internal TEC temperature-stabilized			
Warm-up time		< 30 seconds			
Operation voltage		90-250 VAC or 12VDC OEM version 11-16VDC			
Dimensions and weight of laser head		3 x 3.6 x 13.5 cm ³ (1.2 x 1.4 x 5.3 in ³), 0.3 kg (0.6 lb)			
Dimensions and weight of power supply		Standard AC: 5 x 14 x 15 cm ³ (2 x 5.5 x 6 in ³), 0.5 kg (1 lb); CL-2005 power display AC: 5 x 16 x 15 cm ³ 12 VDC OEM version: Integrated inside the laser head.			