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4-Channel, Fiber-Coupled Laser Source (Page 2 of 2)

Safety

While most output sources fall within the class 3R laser rating, this system has been fully designed to meet 3B laser class requirements. There is an interlock located on the rear panel that must be shorted in order for any laser output to be enabled. This can easily be configured to be triggered by doors to disable the laser in unsafe conditions. The power switch is a keylock system to prevent accidental or unwanted use. Each source has its own enable button, allowing the user to choose the light source or sources activated, as well as a master enable, which must also be set. Each channel includes a green LED indicator to easily determine its current state. There is a 3 second delay before the lasers turns on, and the user is warned by the LED rapidly blinking.

PERFORMANCE SPECIFICATIONS	
Display Power Accuracy	±10%
Current Setpoint Resolution	0.01 mA
Temperature Adjust Range	20.00 to 30.00 °C
Temp Setpoint Resolution	±0.01 °C
Noise	<0.5% Typical (Source Dependent)
Rise/Fall Time	<5 µs
Modulation Input	0 - 5 V = 0 - Full Power
Modulation Bandwidth	80 kHz Full Depth of Modulation

In the Box

The MCLS1 includes a universal power supply allowing operation over 100 to 240 VAC without the need for selecting the line voltage. The fuse access is conveniently located on the rear panel. This unit is supplied with a US line cord as well as a standard European line cord, the pre-configured MCLS1 with all selected lasers installed, a USB cable, and the manual.



Configuring a 4-Channel Source

The table below lists the 24 available output wavelengths for our 4-Channel Source. Choose any combination and add the individual source cost to the MCLS1 base unit price.

EXAMPLE MCLS1 with fiber-pigtailed laser diodes providing output at 635 nm, 670 nm, 850 nm, and 1004 nm costs \$410.00 + \$342.00 + \$385.00 + \$1,090.00 = \$2,227.00.

ITEM #	λ	MINIMUM POWER	LASER TYPE	FIBER	\$	£	€	RMB
MCLS1-405-30*	405 nm	24 mW	Fabry-Perot	S405-HP	CALL	CALL	CALL	CALL
MCLS1-406	406 nm	4.0 mW	Fabry-Perot	S405-HP	CALL	CALL	CALL	CALL
MCLS1-473	473 nm	5.5 mW	Fabry-Perot	S460-HP	CALL	CALL	CALL	CALL
MCLS1-488	488 nm	18 mW	Fabry-Perot	S460-HP	CALL	CALL	CALL	CALL
MCLS1-635	635 nm	2.5 mW	Fabry-Perot	SM600	\$ 410.00	£ 295.20	€ 356,70	¥ 3,267.70
MCLS1-638	638 nm	10 mW	Fabry-Perot	SM600	\$ 460.00	£ 331.20	€ 400,20	¥ 3,666.20
MCLS1-642	642 nm	15 mW	Fabry-Perot	SM600	\$ 650.00	£ 468.00	€ 565,50	¥ 5,180.50
MCLS1-658	658 nm	9.5 mW	Fabry-Perot	SM600	\$ 306.00	£ 220.32	€ 266,22	¥ 2,438.82
MCLS1-670	670 nm	1.5 mW	Fabry-Perot	SM600	\$ 342.00	£ 246.24	€ 297,54	¥ 2,725.74
MCLS1-705	705 nm	10 mW	Fabry-Perot	SM800-5.6-125	\$ 760.00	£ 547.20	€ 661,20	¥ 6,057.20
MCLS1-785	785 nm	6 mW	Fabry-Perot	SM800-5.6-125	\$ 320.00	£ 230.40	€ 278,40	¥ 2,550.40
MCLS1-785-25	785 nm	20 mW	Fabry-Perot	SM800-5.6-125	\$ 575.00	£ 414.00	€ 500,25	¥ 4,582.75
MCLS1-808	808 nm	5 mW	Fabry-Perot	SM800-5.6-125	\$ 360.00	£ 259.20	€ 313,20	¥ 2,869.20
MCLS1-808-20	808 nm	20 mW	Fabry-Perot	SM800-5.6-125	\$ 450.00	£ 324.00	€ 391,50	¥ 3,586.50
MCLS1-850	850 nm	7.5 mW	Fabry-Perot	SM800-5.6-125	\$ 385.00	£ 277.20	€ 334,95	¥ 3,068.45
MCLS1-852	852 nm	20 mW	Fabry-Perot	SM800-5.6-125	\$ 470.00	£ 338.40	€ 408,90	¥ 3,745.90
MCLS1-904	904 nm	6 mW	Fabry-Perot	SM800-5.6-125	\$ 369.00	£ 265.68	€ 321,03	¥ 2,940.93
MCLS1-980	980 nm	6 mW	Fabry-Perot	980HP	\$ 380.00	£ 273.60	€ 330,60	¥ 3,028.60
MCLS1-980-20	980 nm	20 mW	Fabry-Perot	980HP	\$ 495.00	£ 356.40	€ 430,65	¥ 3,945.15
MCLS1-1064	1064 nm	20 mW	Fabry-Perot	H11060	\$ 1,090.00	£ 784.80	€ 948,30	¥ 8,687.30
MCLS1-1310	1310 nm	2.5 mW	Fabry-Perot	SMF-28e+	\$ 305.00	£ 219.60	€ 265,35	¥ 2,430.85
MCLS1-1310DFB	1310 nm	1.5 mW	DFB	SMF-28e+	\$ 770.00	£ 554.40	€ 669,90	¥ 6,136.90
MCLS1-1550	1550 nm	1.5 mW	Fabry-Perot	SMF-28e+	\$ 320.00	£ 230.40	€ 278,40	¥ 2,550.40
MCLS1-1550DFB	1550 nm	1.5 mW	DFB	SMF-28e+	\$ 908.00	£ 653.76	€ 789,96	¥ 7,236.76

*Due to the variation in pricing for these laser diodes, which changes frequently, please see www.thorlabs.com or call for current pricing.

Order the MCLS1 and Lasers Separately

ITEM #	\$*	£*	€*	RMB*	DESCRIPTION
MCLS1	\$ 3,600.00	£ 2,592.00	€ 3,132.00	¥ 28,692.00	4-Channel Laser Source, TEC Stabilized, USB, Controller Only

* Price listed is for base system, excluding sources



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