

MULTI-LASER PID CONTROLLER

MLC Series

Stabilize the frequency of up to 8 lasers

The Bristol Instruments MLC Series Multi-Laser PID Controller provides the ability to stabilize the frequency of a laser connected to a wavelength meter using a proportional-integral-derivative (PID) feedback loop.

The MLC system was designed specifically for the Bristol Instruments 872 Laser Wavelength Meter that offers a frequency resolution as high as 200 kHz. With a measurement rate of 1 kHz, the 872 system can be combined with the FOS Fiber-Optic Switch to enable the monitoring and stabilization of up to 8 lasers.

The Bristol Instruments laser frequency stabilization system (872 Laser Wavelength Meter, MLC PID Controller, and FOS Fiber-Optic Switch) will benefit scientists and engineers involved in experiments such as laser cooling and trapping that require active regulation of laser frequency.



SPECIFICATIONS

SPECIFICATIONS	
CONFIGURATIONS	4 or 8 Channels
CONNECTION TYPE	BNC (Female)
SIGNAL RANGE (VOLTAGE SPAN)	-10 V to +10 V
SIGNAL IMPEDANCE	50 Ohms
MAXIMUM CURRENT/CHANNEL	± 5 mAmps
RESOLUTION	1 mVolt
DIMENSIONS (H x W x D)	2.5" x 5.5" x 9.0" (64 mm x 140 mm x 229 mm)
WEIGHT	2.5 lbs (1.1 kg)
POWER REQUIREMENTS	12v DC via external power supply
INSTRUMENT INTERFACE	USB 2.0
WARRANTY	1 year (parts and labor)