

ANALOG LIQUID CRYSTAL CONTROLLER

Meadowlark Optics is excited to announce the release of the Model B1010, our new Analog Liquid Crystal Controller. This liquid crystal (LC) driver is designed to integrate with any single (standard) Meadowlark Optics LC device currently offered as well as any nematic Liquid Crystal device compatible with the specifications listed.

Independent voltage settings allow easy and repeatable selection of two retardance values. Often, it is desirable to modulate between the two states. For example, switching between quarter-wave and three quarter-wave retardance changes linearly polarized light between left and right circular. A manual toggle allows easy switching between two states. Banana jacks between the knobs allow for continuous voltage monitoring without interfering with LC device connections.

Each Meadowlark Optics Liquid Crystal Variable Retarder is supplied with a plot of its actual retardance versus voltage. Using your Model B1010 Controller and this retardance plot ensures accurate retardance to voltage correlation.



Key Features

- Convenient, stand-alone bench top operation
- Versatile - compatible with all standard Meadowlark Optics LC devices and other nematics
- Out-of-the-box functionality. Sets up in minutes
- Optional battery supply for short term use
- Banana jacks allow for easy multimeter attachment

SPECIFICATIONS	
Output Voltage	0 to 20 V _{AC} RMS, maximum
Fundamental Drive Waveform	2 kHz AC square wave
External Modulation (input)	none
Output Bias	± 10 mV _{DC}
Power Requirements	12 V _{DC} 200 mA or 9V battery External power supply included 100-240 V _{AC} 50-60 Hz, 0.3 A International Plugs
Battery Life	1 hour (intended for convenience, not as a primary power source)
External Dimensions (W x D x H)	3.3 x 6.0 x 2.2 in.
Weight	< 1 lb.
CE Compliance	Compliant

ORDERING INFORMATION	
Analog LC Controller	B1010
Two year and three year extended warranty options available, please contact your Meadowlark Optics sales engineer	

B1010 PACKAGE
<ul style="list-style-type: none"> • B1010 Controller Unit • Power Supply • SMA-BNC Adapter • Internal Plug Set • 9 Volt Battery • User Manual



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