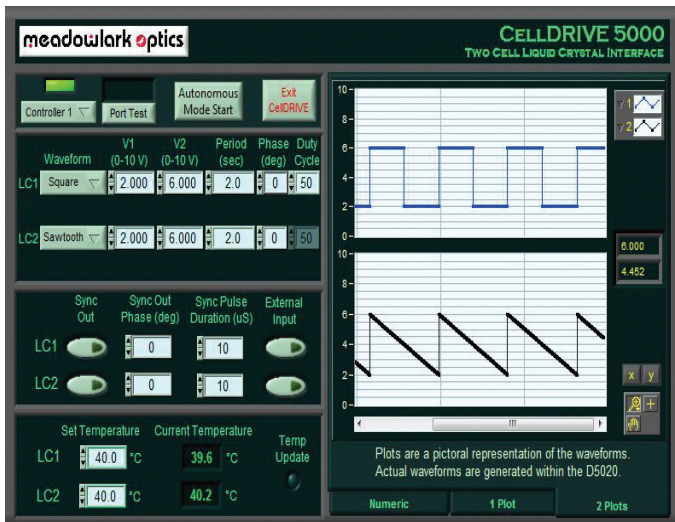


## LIQUID CRYSTAL DIGITAL INTERFACE — D5020

The new D5020 Liquid Crystal Digital Interface is the next generation in the evolution of Meadowlark Optics Liquid Crystal Controllers.

The Digital Controller is designed for user functionality and productivity. The D5020 provides a “set and go” function that allows the controller to run autonomously without a computer.



Controlling multiple Liquid Crystal cells has never been easier. CellDRIVE 5000 software provides a separate sync output for each channel as well as temperature sensing and control on both channels.

The 2kHz square wave output can be amplitude modulated with sinusoidal, square, triangle, sawtooth and transient nematic effect waveforms.

### Key Features

- Two channels of voltage and temperature sensing & control (TSC)
- USB powered (unless using TSC)
- Waveforms generated internally
- Independent SMB I/O Connectors for each channel
- Multiple external control options
- Includes USB and LabVIEW™ code example

SPECIFICATIONS	
Fundamental Drive Waveform	2 kHz AC square wave
Modulation Amplitude	0-10 V <sub>rms</sub> (20 V <sub>rms</sub> option available)
Modulation Resolution	1 mV (0.155 mV using LabVIEW™ subroutines)
DC Offset	< 5 mV
Communications Interface	USB
LC Cell to Controller Connections	SMA-SMB, 2 m cable length
CE Compliant	
Dimensions (L x W x H)	5.50 x 5.25 x 1.63 in.
Weight	1.8 lbs. (with cables)
Modulation Waveforms	External modulation Input (0 - 5 V) Sinusoidal Triangle Square Sawtooth Transient nematic effect
Temperature Control (2 Channels)	Active heating/passive cooling within ± 1°C of nominal set point
Sync Output	TTL, user specified timing and phase
System Requirements: Windows™ Vista, 7 or 8 Requires LabVIEW™ version 2010 or higher for use with LabVIEW™ instrument Library	

D5020 PACKAGE
<ul style="list-style-type: none"> <li>• D5020 Controller Unit</li> <li>• Front Panel SMB I/O Connectors</li> <li>• User Manual</li> <li>• USB Cable</li> <li>• Power Supply and Power Cable</li> <li>• Temperature Sensing and Control capability</li> <li>• CellDRIVE 5000 Software</li> <li>• National Instruments LabVIEW™ virtual Instrument Drivers</li> </ul>

ORDERING INFORMATION	
Liquid Crystal Digital Interface	D5020
LC Digital Interface (20V <sub>rms</sub> )	D5020-20V
SMA to SMB Cables	SMA-SMB
Sync Cable (SMB to BNC)	SMB-BNC
Call a Meadowlark Optics Sales Engineer today.	



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