

Four Channel Digital Interface

SPECIFICATIONS	
Fundamental Drive Waveform	2 kHz ac square wave
Modulation Amplitude	0-10 V rms
Modulation Resolution	1 mV (0.155 mV using LabVIEW™ subroutines)
DC Offset	< 5 mV
Communications Interface:	USB or RS232
LC Cell to Controller Connections	SMA-SMB, 2 m cable length
Power Requirements	100 – 240 V ac 47 – 63 Hz 500 mA
CE Compliance	compliant
Dimensions (L x W x H)	9.50 x 6.25 x 1.50 in.
Weight	2 lbs.

ADVANCED PACKAGE ONLY	
Modulation Waveforms	external modulation input (0-5 V) sinusoidal triangle square sawtooth transient nematic effect
Temperature Control (one channel only)	Active heating/passive cooling to within $\pm 1^\circ \text{C}$ of nominal set point
Sync Output	TTL, 1 μs pulse, user specified phase
Minimum System Requirements <ul style="list-style-type: none"> • PC with Pentium II class processor • 32 MB RAM • CD ROM drive • 20 MB hard drive space • USB or RS232 COM Port • Windows™ 98/ME/2000/XP/Vista • Use of LabVIEW Instrument Library requires LabVIEW version 6.1 or higher 	

ORDERING INFORMATION	
Basic	D3040
Advanced	D3050
SMA to SMB Cables	SMA-SMB

Two year and three year extended warranty options available, please contact your Meadowlark Optics sales engineer

Basic package includes:

- D3040 Controller Unit
- User Manual
- USB and RS232 cables
- Power supply and power cable
- CellDRIVE 3000 Basic Software
- National Instruments LabVIEW™ virtual instruments driver

Advanced package includes:

- D3050 Controller Unit with external input and sync output front panel connectors
- User Manual
- USB and RS232 cables
- Temperature control cable
- LC-Controller interface cable
- Power supply and power cable
- Temperature monitoring and control
- CellDRIVE 3100 Advanced Software
- National Instruments LabVIEW virtual instruments driver

NOTES:

1. D3040 Controllers may be upgraded to D3050 specifications. This upgrade also includes CellDRIVE 3100. Please contact a Sales Engineer for more information.
2. Previous generations of Meadowlark LC devices with TSC option may not be compatible with the TSC option in the D3050.
3. Previous generations of Meadowlark LC Controllers used BNC to SMB cables. Adapters and replacement cables are available. Please contact a Sales Engineer for assistance.
4. Temperature monitoring and control is only available on the D3050 and requires a liquid crystal device with the temperature sensing and control (TSC) option.