

LED Source: 10 MHz to 100 MHz Modulation

High-Power DC3100 Series Driver
(Power Supply Included)



3 Operation Modes

- Internal Modulation Mode up to 100 MHz
- External Trigger Mode
- Constant Current Mode

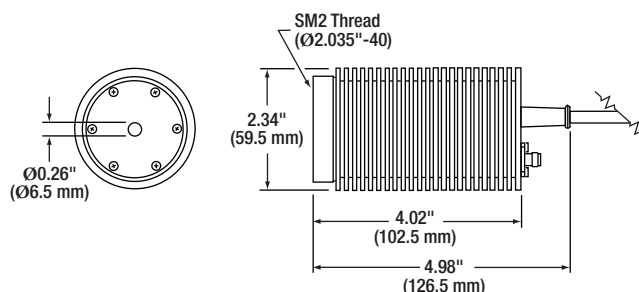
Thorlabs' DC3100 series of Modulated LED Sources are designed for applications that benefit from modulated, high-brightness LED sources. These compact LED sources include a high-current, high-power LED driver with three operation modes, an LED head with modulating electronics that are designed for high-brightness LEDs with high thermal dissipation, and the LED itself.

There are four standard wavelengths available: 365 nm, 405 nm, 470 nm, and 630 nm. Other wavelengths are available upon request. The DC3100 can be remotely operated via USB2.0 by the included software package with an intuitive GUI and an extensive driver set.



LED Head shown with a Zeiss Axioskop
Collimation Adapter (Collimation Adapter
Sold Separately on the next page)

LED Head
(Includes LED)



Please refer to our website for complete models and drawings.

SPECIFICATIONS	
LED Current	0 to 1 A
Internal Modulation Mode	
Modulation Frequency	10 - 100 MHz in 0.1 MHz Steps*
Modulation Depth	0 to 100%
Trigger Output	Sine Wave
External Modulation Mode	
Drive Voltage	0 to 10 V (1 V/100 mA)
Modulation	Arbitrary
Modulation Frequency	0 to 100 kHz (Sine Wave)
Mechanical	
LED Mounting**	Compatible with Standard Star-Shaped PCB-Packaged LEDs

*LED dependant

**LED is delivered mounted in housing.

ITEM #	CENTER PEAK	I (MAX)	CUTOFF FREQUENCY
DC3100-365	365 nm	700 mA	90 MHz
DC3100-405	405 nm	1000 mA	95 MHz
DC3100-470	470 nm	1000 mA	80 MHz
DC3100-630	630 nm	1000 mA	70 MHz

ITEM #	\$	£	€	RMB	DESCRIPTION
DC3100-365	\$ 2,500.00	£ 1,800.00	€ 2,175.00	¥ 19,925.00	Modulated LED Source with Head, 365 nm
DC3100-405	\$ 2,200.00	£ 1,584.00	€ 1,914.00	¥ 17,534.00	Modulated LED Source with Head, 405 nm
DC3100-470	\$ 2,200.00	£ 1,584.00	€ 1,914.00	¥ 17,534.00	Modulated LED Source with Head, 470 nm
DC3100-630	\$ 2,200.00	£ 1,584.00	€ 1,914.00	¥ 17,534.00	Modulated LED Source with Head, 630 nm