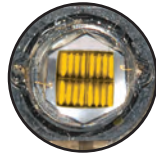
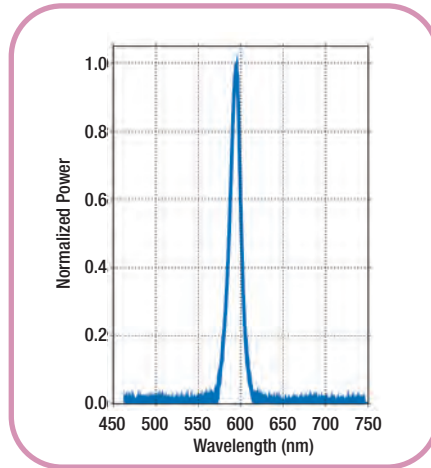


590 nm Mounted or Mounted and Collimated LEDs

- High-Power LED
- Average Lifetime of 100,000 Hours
- Mounted on Heatsink
- Compatible with Our DC2100 LED Controller (See Page 1105)



Typical Emitter



CHARACTERISTIC (T _a = 25 °C)	MIN	TYP	MAX
Peak Wavelength	584 nm	590 nm	597 nm
Spectral Full Width	-	28.8 nm	-
Forward Current	-	-	1540 mA
Peak Pulsed Forward Current	-	2,200 mA	-
Forward Voltage	-	3.5 V	-
Operating Temperature	-40 °C	-	120 °C
Storage Temperature	-40 °C	-	120 °C
Lifetime	-	100,000 hrs	-

Mounted LEDs that provide light output at 590 nm are available with or without collimation optics. Both types of units use the same LED with EEPROM, which is housed in an internally SM1-threaded housing. The mounted LED can be easily incorporated into lens tube or cage systems via the SM1 threading. The collimated versions house an optic in a microscope-compatible adapter that can be easily installed into the epi-illumination port of many microscopes made by Leica, Nikon, Zeiss, or Olympus.

Drivers

We recommend using the LEDD1A T-Cube driver or the DC2100 LED driver to control these LEDs. The DC2100 is a sophisticated controller that is capable of CW or pulsed operation up to 10 kHz. If an external trigger is used, pulse frequency can be increased up to 100 kHz. Additionally, the DC2100 can read the LED's EEPROM, which contains operating parameters, such as the maximum current, that help to prolong the life of the LED. Please see page 1105 for more details on the DC2100.



Mounted LED, P = 150 mW

- Uncollimated, Lambertian Radiation Pattern
- Internally SM1 Threaded

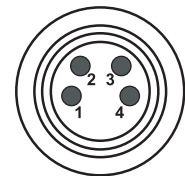


Collimated LED, P = 30 - 36 mW

- Closely Collimated Beam
- High Power Density
- Adjustable Focus
- Designed to Integrate Into Standard Microscopes



DC2100



Pin	Description
1	LED +Ve
2	LED -Ve
3	Not Connected
4	Not Connected

NEW
products

ITEM#	MICROSCOPE	POWER	BEAM DIA.	BEAM AREA
LEDC21	Olympus BX/IX	36 mW	50 mm	1963 mm ²
LEDC22	Leica DMI	30 mW	37 mm	1075 mm ²
LEDC23	Nikon Eclipse (F Mount)	32 mW	43 mm	1452 mm ²
LEDC24	Zeiss Axioskop	32 mW	44 mm	1521 mm ²

ITEM#	\$	£	€	RMB	DESCRIPTION
M590L1	\$ 127.50	£ 88.40	€ 113,20	¥ 1,076.70	590 nm, 150 mW, Mounted LED
LEDC21	\$ 331.50	£ 229.90	€ 294,40	¥ 2,799.20	590 nm, 36 mW for Olympus BX/IX Microscopes, Collimated LED
LEDC22	\$ 331.50	£ 229.90	€ 294,40	¥ 2,799.20	590 nm, 30 mW for Leica DMI Microscopes, Collimated LED
LEDC23	\$ 331.50	£ 229.90	€ 294,40	¥ 2,799.20	590 nm, 32 mW, Collimated LED for Nikon Eclipse (F Mount) Microscopes
LEDC24	\$ 331.50	£ 229.90	€ 294,40	¥ 2,799.20	590 nm, 32 mW, Collimated LED for Zeiss Axioskop Microscopes
DC2100	\$ 1,750.00	£ 1,213.00	€ 1,553,50	¥ 14,778.00	High-Power LED Driver with Modulation, 2000 mA