

▼ CHAPTERS

Coherent Sources

Incoherent Sources

Quantum Electronics

Drivers/Mounts

Accessories

▼ SECTIONS

Laser Diode Controllers

Temperature/TEC Controllers

LD/TEC Controllers

LD/TEC Platforms

LD Mounts

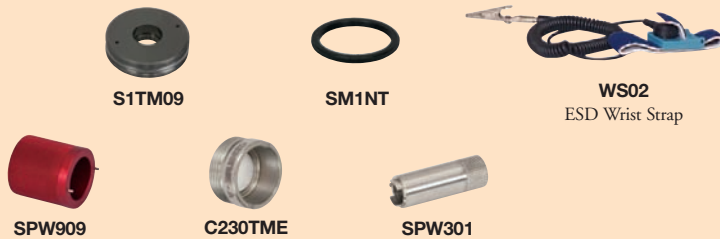
LED Drivers

LED Mounts

Laser and Temperature Control System



Included Accessories



Components Included

- LDC205C Benchtop LD Current Controller, ± 500 mA (See Page 1438)
- TED200C Benchtop Temperature Controller, ± 2 A / 12 W (See Page 1450)
- TCLDM9 TEC LD Mount (See Page 1486)
- Spanner Wrench for M9 x 0.5 Housing (SPW301)
- Spanner Wrench for SM1 Adapters (SPW909)
- TR3 Series Post and PH3 Post Holder
- BA2 Mounting Base (See Page 88)
- S1TM09 Optic Adapter (See Page 351)
- SM1NT Locking Nut
- WS02 Grounding Wrist Strap (See Page 1519)
- AR-Coated Collimation Optic
 - **LTC100-B:** C230TME-B (600 – 1050 nm)
 - **LTC100-C:** C230TME-C (1050 – 1620 nm)

The complete system is shown above and includes the diffraction-limited aspheric collimation optic.

Our popular LDC205C Laser Diode Controller, TED200C Temperature Controller, and TCLDM9 TEC Laser Diode Mount are now available in a bundled package, complete with all necessary cables to connect both controllers to the mount and all the accessories shown above. When purchased together, you will save 10% over the cost of buying each product separately.

This package is a versatile, easy-to-use laser diode operating system. The 500 mA LDC205C laser diode controller offers precise control of a laser diode's power in either a constant current (CC) or constant power (CP) mode. The 12 W TED200C temperature controller provides current and stability to the two TEC elements incorporated into our TCLDM9 mount.

For more detailed specifications, see pages 1438 - 1439 for the LDC205C, page 1450 for the TED200C, and page 1486 for the TCLDM9.

A wide selection of $\varnothing 5.6$ mm and $\varnothing 9$ mm laser diodes can be found on pages 1212 - 1266. Both packages are compatible with our TCLDM9 mount.

Laser Diode Controller Specifications

- Maximum Laser Current of ± 500 mA
- Compliance Voltage: >10 V
- Drift (24 hrs 0 - 10 Hz Typical) <10 μ A
- Accuracy: ± 0.5 mA
- Low Noise: <3 μ A
- Five-Digit Display with 10 μ A Resolution
- Analog Control Input and Monitor Output
- Reliable Laser Diode Protection
- Operates with All Laser Diode and Photodiode Polarities

Temperature Controller Specifications

- ± 2 A/12 W Low Noise TEC Output
- Temperature Stability: <0.002 $^{\circ}$ C (24 Hours)
- Compatible with All Common Sensors (Thermistor, AD590/AD592/LM135/LM335)
- Temperature Range as Wide as -45 to 145 $^{\circ}$ C (Dependent on Sensor Type) or 10 k Ω to 200 k Ω (Thermistor)
- Separate Control of the P-, I-, and D-Gains for Perfect Adaptation to the Thermal Load
- 5-Digit Display with a Resolution of 0.01 $^{\circ}$ C (IC-Sensor) or 1 Ω (Thermistor)
- Analog Control via the TUNE IN Input

ITEM #	\$	£	€	RMB	DESCRIPTION
LTC100-B	\$ 2,293.10	£ 1,651.20	€ 1,995.10	¥ 18,272.90	LD and Temperature Control System, AR-Coated: 600 - 1050 nm
LTC100-C	\$ 2,293.10	£ 1,651.20	€ 1,995.10	¥ 18,272.90	LD and Temperature Control System, AR-Coated: 1050 - 1600 nm