

COMPACT-Series RS-232/USB Laser

RS-232/USB instrumentation ready laser systems



COMPACT Product Features

- RS-232 or USB Controlled, Instrumentation Ready
- Integrated Laser and Electronics in a Single Package
- Excellent Power and Wavelength Stability

COMPACT Applications

- Bioanalytical
- Measurement

COMPACT is a user controlled laser system with an integrated laser and control electronics in a single compact package. The built-in LCD display shows laser operating parameters, and pushbuttons enable easy and quick manual changes of laser operation conditions.

COMPACT RS-232 interface allows the user set the laser power, temperature, and the variable laser modulation sequence using a computer.

COMPACT demonstrates excellent beam quality, power stability, laser head temperature control, and low noise for demanding applications.

Operational Hazard-Semiconductor Laser Diode Module: This laser module emits radiation that is visible/invisible and harmful to human eye. When in use, do not look directly into the laser emitting aperture. Direct viewing of laser diode emission at close range may cause eye damage.

Limited Warranty: One year. No warranty coverage for disassembly, modifications or damage due to abuse or misapplication.

Specifications

OPTICAL

| | |
|--------------------------|---|
| Wavelength | 375, 405, 473, 488, 510, 520, 532, 635, 638, 642, 658, 660, 670, 685, 690, 705, 730, 780, 785, 808, 830, 850, 905, 980, and 1064 nm |
| Optical Output Power | 1 to 100 mW (depending on wavelength) |
| Laser Power Stability | < 0.5% |
| Laser RMS Noise | < 0.5% |
| Polarization Ratio | > 100:1 |
| Polarization Orientation | vertical |
| Beam Size (collimated) | 1 mm (circular) or elliptical |
| Divergence (full angle) | < 1 mrad |
| Beam Pointing Stability | < $\pm 10 \mu\text{rad}$ (10-40°C) |
| Warm-Up time | 20 second |

ELECTRICAL

| | |
|-------------------|--------------------|
| Operating Voltage | 3.3 V DC |
| Operating Current | <1.2 A |
| Control Circuit | Auto Power Control |

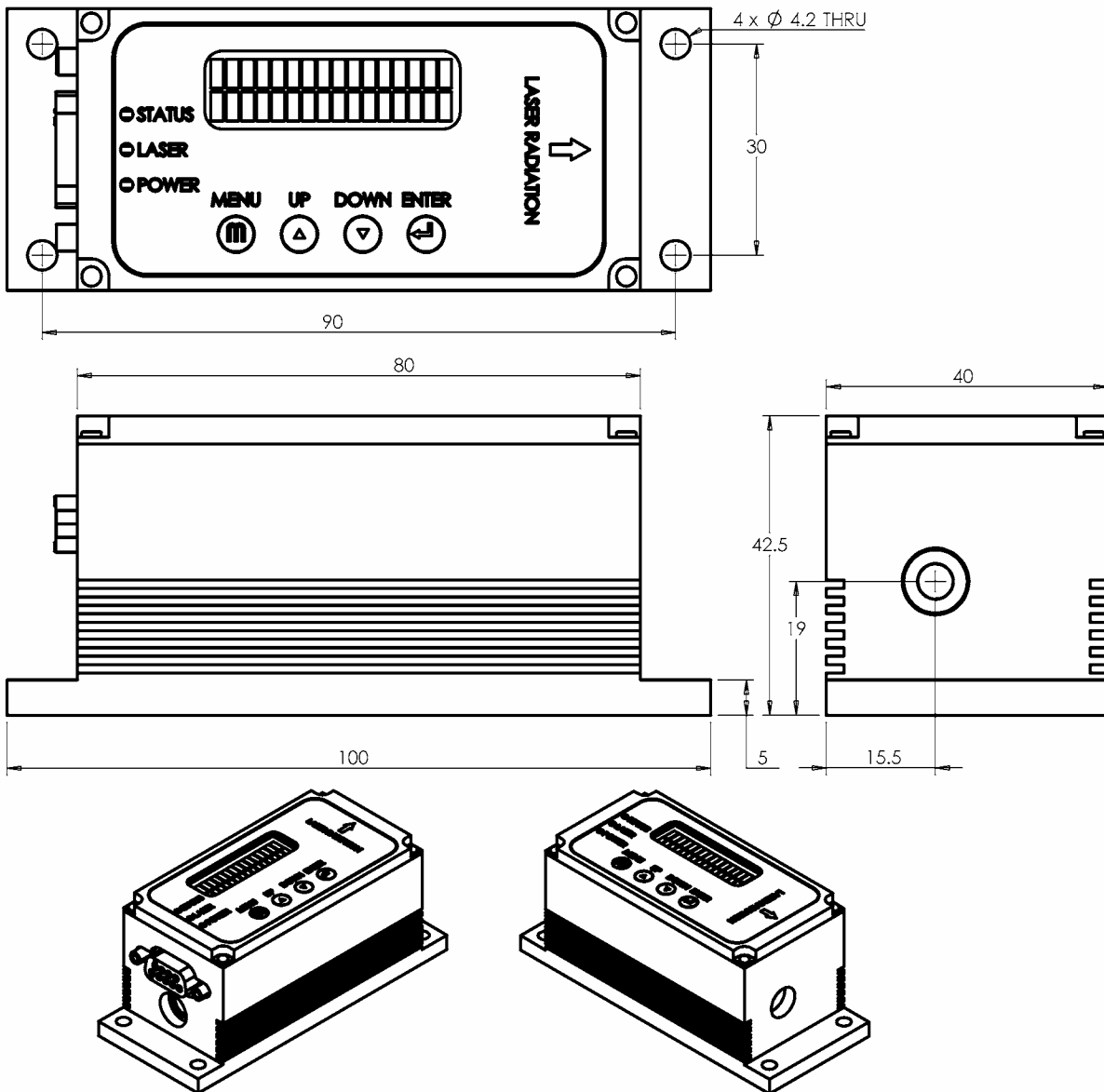
MECHANICAL

| | |
|------------------------|------------------------------|
| Dimension, mm | 40 (W) x 42.5 (H) x 100 (L) |
| Operating Temperature | +10°C to +40°C |
| Storage Temperature | -40°C to +80°C |
| Heat Sink Requirements | Recommended for extended use |



COMPACT-Series RS=232/USB Laser

COMPACT Mechanical Dimensions



COMPACT Ordering Information

Part# COMPACT-pppG(c)-λλλ

| Option | Meaning | Values |
|------------|--------------------------------------|--|
| ppp | Laser output power (mW) | 1-100 |
| (c) | Circular laser diode beam (optional) | C |
| λλλ | Wavelength (nm) | 375, 405, 473, 488, 510, 520, 532, 635, 638, 642, 658, 660, 670, 685, 690, 705, 730, 780, 785, 808, 830, 850, 905, 980, and 1064 |

Example Part # for 30 mW, circular, 488 nm laser : COMPACT-30GC-488