

**Model No. BML-454-XFYPZQ
454nm BLUE DIODE LASER SYSTEM UP TO >800mW**

The BML-series 454 nm blue diode laser is constructed with features of high stability, low noise option, FDA compliance, ultra-compactness, long lifetime, cost-effectiveness and easy operating. It is widely used in laser projection, stage lighting, biomedical applications, metrology and many other applications. ***In addition, fiber coupled BML-series 454nm diode lasers with FC or SMA905 connector are available upon request.***

SPECIFICATIONS

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|--|---|
| Model No. | BML-454-XFYPZQ |
| Wavelength (nm) | 454±5 |
| Output power (mW) | >100 (X=100), >200 (X=200), >300 (X=300), >500 (X=500), >800 (X=800) |
| Transverse mode | Multimode |
| Operating mode | CW |
| Power stability (rms, over 4 hours) | <0.5% (P=S), <1% (P=D) |
| Noise of amplitude (rms, 20Hz~20MHz) | <1% for Low Noise (Z=1); >1% (Z=2) |
| Beam diameter at aperture (1/e², mm) | <2.5x5.2 for X=100, 200, 300, 500 ; <2x5 for X=800 |
| Beam divergence, full angle (mrad) | <2.1x1.6 for X=100, 200, 300, 500 ; <2.5x0.2 for X=800 |
| Warm-up time (minutes) | <5 |
| Beam height from base plate (mm) | 24.8 |
| Operating temperature (°C) | 10~35 |
| Laser head | 143.5(L) x73(W) x46.2(H) mm ³ , 0.7 kg |
| Power supply (90-240VAC) | Elite Power Supply (Y=E) : 171(L) x130(W) x62.2(H) mm ³ , 1.2kg; complete FDA compliant features (turnkey switch and interlock); easy to operate; CW mode with optional TTL or Analog modulation up to 30kHz Laboratory Power Supply (Y=L) : 188.6(L) x155(W) x92(H) mm ³ , 1.5kg; complete FDA compliant features (turnkey switch and interlock) with more functions; CW mode with adjustable output power knob, operating current LED display, and optional TTL or Analog modulation up to 30kHz |
| Optional modulation | None (Q=0) TTL : 1Hz -1kHz (Q=1), 1kHz -10kHz (Q=2), 10kHz-30kHz (Q=5) Analog : 1Hz -1kHz (Q=3), 1kHz -10kHz (Q=4), 10kHz-30kHz (Q=6) |
| Expected lifetime (hours) | 10,000 |
| Warranty | 10 months |
| Remarks | The stability of output power may change when you adjust the output power. For example, the stability of output power at the maximum output power is <10%, the stability may change to >10% when you adjust the output power down. |

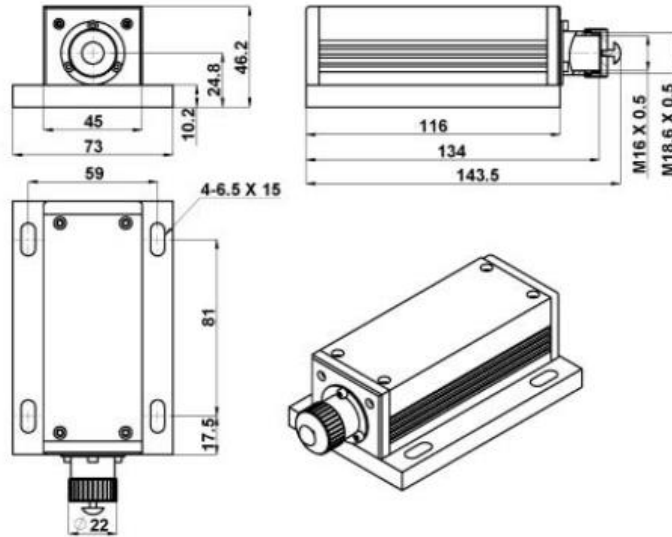
Note: The above specifications are subject to change without notice.





MECHANICAL OUTLINE (unit: mm)

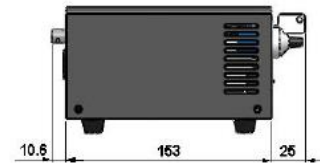
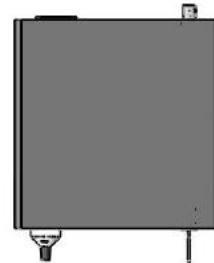
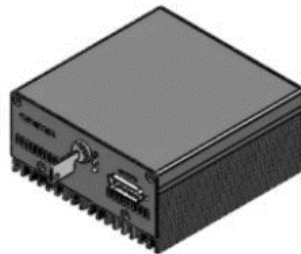
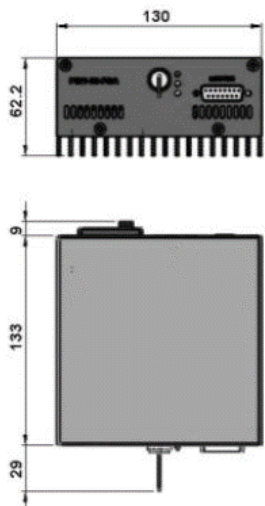
Laser Head



Power Supply

Elite Power Supply (Y=E)

Laboratory Power Supply (Y=L)



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