



Your source for high quality, affordable lasers

## DATA SHEET

### SINGLE LONGITUDINAL MODE BLUE LASER AT 473nm


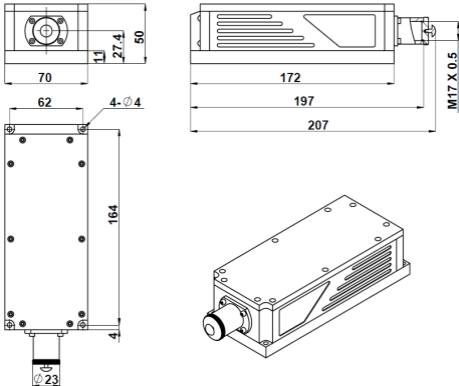

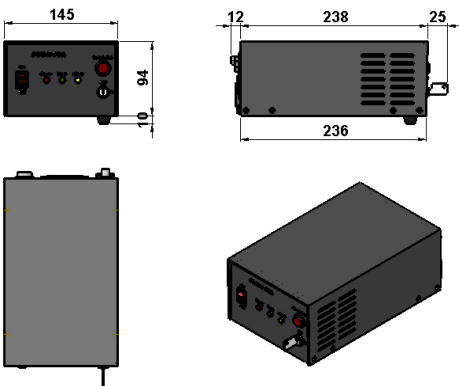
All-solid-state single longitudinal mode blue laser at 473nm is made features of ultra-compact, long lifetime and easy operating, which is used in DNA sequencing, flow cytometry, cell sorting, optical instrument, spectrum analysis, interference, measurement, holography, physics experiment, etc.



Model: MSL-FN-473/1~100mW

|   |   |
|---|---|
| Wavelength (nm)                                       | 473 ± 1nm   |
| Output power (mW)                                     | >1, 5, 10, ..., 100                               |
| Transverse mode                                       | TEM <sub>00</sub>                                 |
| Longitudinal mode                                     | Single  |
| Operating mode  | CW  |
| Power stability (rms, over 4 hours)                   | <1%, <3%, <5%                                     |
| Warm-up time (minutes)                                | <10   |
| M <sup>2</sup> factor                                 | <1.2  |
| Beam divergence, full angle (mrad)                    | <1.2  |
| Beam diameter at the aperture (1/e <sup>2</sup> , mm) | <2.5, typical <2.0                                |
| Beam height from base plate (mm)                      | 27.4  |
| Spectral linewidth (nm)                               | <0.00001  |
| Polarization ratio                                    | >100:1, Vertical ± 5 degree (Horizontal optional) |
| Pointing stability after warm-up (mrad)               | <0.05   |
| Noise of amplitude (rms, 1Hz~20MHz)                   | <1%, typical <0.5%                                |
| Coherence length (m)                                  | >50   |
| Operating temperature (°C)                            | 15~35   |
| Power supply (90-264VAC)                              | PSU-H-FDA   |
| Expected lifetime (hours)                             | 10,000  |
| Warranty period                                       | 1 year  |

**Note: The laser head needs to be used on a heat sink with good heat dissipation**

| MSL-FN-473  | Dimensions   | PSU-H-FDA   | Dimensions  |
|---|--|---|---|
|  |  <p>197(L)×70(W)×50(H) mm<sup>3</sup>, 2.0kg</p> |  |  <p>236(L)×145(W)×104(H) mm<sup>3</sup>, 2.3kg</p> |