

**MDL-SD-637/640/642/1-300mW**



**RED DIODE LASER  
AT 637/640/642nm**

It features ultra compact design, long lifetime, cost-effectiveness and easy operation. They are widely used in measurement, spectrum analysis, laser lighting show, etc.



**SPECIFICATIONS**

|  |  |                      |
|--|--|----------------------|
| Central wavelength (nm)                              | 637±5/ 640±5/ 642±5  |                      |
| Operating mode                                       | CW   |                      |
| Output power (mW)                                    | >1, 50, 100, ..., 300  |                      |
| Power stability (rms, over 4 hours)                  | <1%, <2%, <3%  |                      |
| Polarization direction                               | Horizontal/ Vertical   | Horizontal+ Vertical |
| Beam diameter at the aperture (1/e <sup>2</sup> ,mm) | ~2.8×2.3   | ~1.4×2.3             |
| Beam divergence, full angle (mrad)                   | <1.0   |                      |
| Warm-up time (minutes)                               | <5   |                      |
| Beam height from base plate (mm)                     | 68.5   |                      |
| Operating temperature (°C)                           | 10~35  |                      |
| Power supply (85-264VAC)                             | PSU-III-LED/ PSU-III-FDA                                     |                      |
| TTL / Analog modulation                              | TTL or Analog with 1Hz-1kHz 1kHz-10kHz, 10kHz-30kHz optional |                      |
| Expected lifetime (hours)                            | 10000  |                      |
| Warranty   | 1 year   |                      |



| MDL-SD-637/640/642  | PSU-III-LED   | PSU-III-FDA  |
|---|---|--|
| <p><b>131.2(L)×99(W) ×91(H) mm<sup>3</sup>, 1.6kg</b></p> | <p><b>188.6 (L) ×155(W) ×92 (H) mm<sup>3</sup>, 1.5kg</b></p> | <p><b>171(L) ×130(W) ×62.2 (H) mm<sup>3</sup>, 1.2kg</b></p> |