UltraLasers
*Your source for high quality, affordable lasers*

# Specification Sheet

Ultralasers, Inc

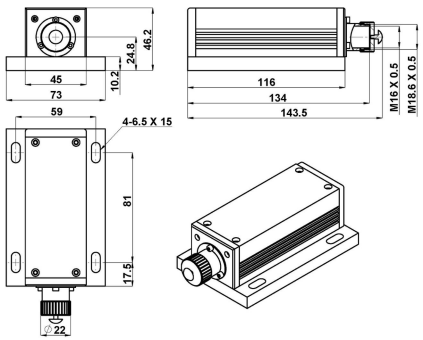
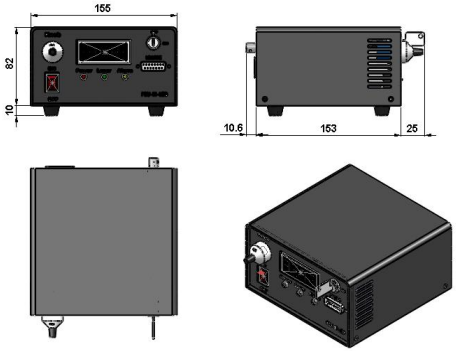
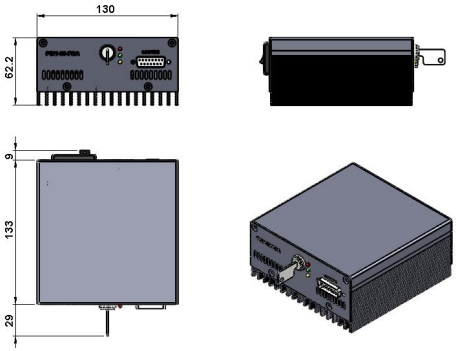
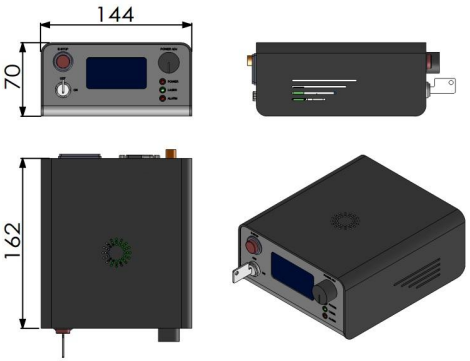
**MDL-III-975L**/1~200mW

## INFRARED DIODE LASER AT 975nm

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

**SPECIFICATIONS**

| | | |
|---|---|---|
| Central wavelength (nm) | | 975±10 |
| Operating mode | | CW |
| Output power (mW) | | >1, 10, 20, …, 200 |
| Power stability (rms, over 4 hours) | | <3%, <2%, <1%, <0.5% |
| Transverse mode | | Near $TEM_{00}$ |
| $M^2$ factor | | ~1.5 (~1.2, optional) |
| Beam diameter at the aperture ((1/$e^2$,mm) | | ~3.5 (~1.2, optional) |
| Beam divergence, full angle (mrad) | | <1.0 |
| Warm-up time (minutes) | | <5 |
| Beam height from base plate (mm) | | 24. 8 |
| Operating temperature (℃) | | 10~35 |
| Power supply | 85-264VAC | PSU-III-LED/ PSU-III-FDA (Frequency for 1Hz-30kHz) |
| | 100-240VAC | PSU-A-D (Frequency for 30kHz -100kHz) |
| Modulation optional | | TTL on/off, 1Hz-1kHz, 1kHz-10kHz, 10kHz-30kHz, 30kHz-100kHz; and Analog modulation optional |
| Expected lifetime (hours) | | 10000 |
| Warranty | | 1 year |


| MDL-III-975L | PSU-III-LED | PSU-III-FDA | PSU-A-D |
|---|---|---|---|
|  |  |  |  |
| 143.5(L)×73(W) ×46. 2(H) $mm^3$, 0.7kg | 188.6 (L) ×155(W) ×92 (H) $mm^3$, 1.5kg | 171(L) ×130(W) ×62.2 (H) $mm^3$, 1.2kg | 162(L) ×144(W) ×70 (H) $mm^3$, 1.0kg |

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