



FC-D-445/1~450mW



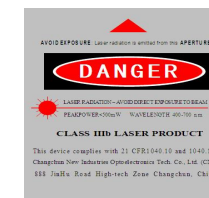
## BLUE DIODE LASER FOR RAMAN SPECTROSCOPY AT 445nm

With narrow spectral bandwidth, spectral purity and a high level of wavelength stability, FC-D-445 laser module is designed specially for Raman spectroscopy, which has integrated laser drivers and thermoelectric coolers together, its compact dimension and convenient functions make it optimal for industrial and medical applications.

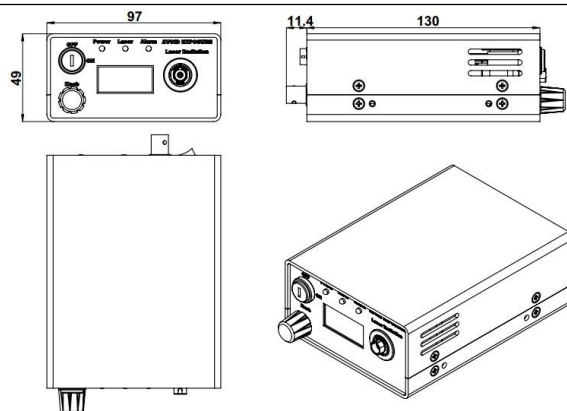


### SPECIFICATIONS

|                                                       |                                                       |         |
|-------------------------------------------------------|-------------------------------------------------------|---------|
| Model                                                 | FC-D-445 (Spectrum Stabilized for Raman spectroscopy) |         |
| Central wavelength (nm)                               | 445±2                                                 |         |
| Spectral line width (nm)                              | 0.1                                                   |         |
| Operating mode                                        | CW                                                    |         |
| Fiber core diameter                                   | 100µm, 0.22 NA                                        |         |
| Fiber connector                                       | SMA905                                                |         |
| Output power after fiber (mW)                         | >1, 10, ..., 450                                      |         |
| Power stability (rms, over 4 hours)                   | <3%, <2%, <1%                                         |         |
| Central wavelength stability (rms, over 2 hours) (pm) | <10                                                   |         |
| Noise of amplitude (rms, 1~20MHz)                     | <1%                                                   |         |
| Warm-up time (minutes)                                | <5                                                    |         |
| Operating temperature (°C)                            | 20~30                                                 |         |
| Power supply                                          | Adaptor(85-264VAC)                                    | 5VDC@5A |
| Expected lifetime (hours)                             | 10000                                                 |         |
| Warranty                                              | 1 year                                                |         |

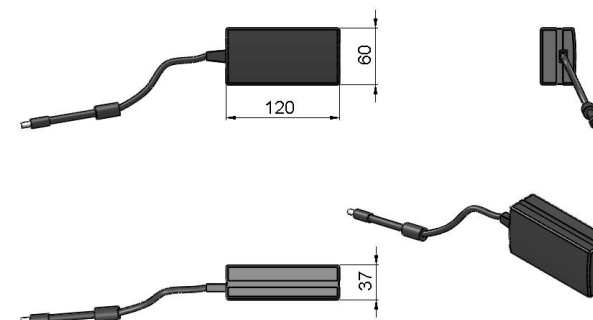


FC-D-445



141.4(L)×97(W)×49(H) mm<sup>3</sup>, 1.0kg

Accessory(Adaptor)



120(L)×60(W)×37(H) mm<sup>3</sup>, 0.3kg