

## FC-D-445/1~200mW



### 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 ±1	
Spectral line width (nm)	0.1 (0.06, 0.03 optional)	
Operating mode	CW	
Fiber core diameter	100 μm, 0.22 NA	
Fiber connector	SMA905	
Output power after fiber (mW)	>1, 10, ..., 200	
Power stability (rms, over 4 hours)	<1%, <2%, <3%	
Central wavelength stability (rms, over 2 hours) (pm)	<10	
Noise of amplitude (rms, 1~20MHz)	<1%, (<0.5%, optional)	
Humidity	5-95%	
Warm-up time (minutes)	<5	
Operating temperature (°C)	20~30	
Power supply	Adaptor(85-264 VAC)	5VDC@5A
TTL modulation	0-100kHz	
Rise time	<10 μs	
Expected lifetime (hours)	10000	
Warranty	1 year	



FC-D-445	Accessory(Adaptor)
<p>169(L)×115(W) ×52(H) mm<sup>3</sup>, 1.0kg</p>	<p>120 (L) ×60(W) ×37 (H) mm<sup>3</sup>, 0.3kg</p>