

# 810nm Infra Red Single Laser Dental Probe



Wavelength	808nm $\pm$ 5nm @ 25° C
Spectral Width	1.2nm FWHM
Semi-conductor Material	GaAlAs
Construction	Quantum well Separate Confinement Hetrostructure
Average Power	200mW
1/e <sup>2</sup> Spot Size & Shape**	0.335cm, circular
-3dB Spot Size & Shape	0.176cm, circular
1/e <sup>2</sup> Spot Size Area**	0.088cm <sup>2</sup>
-3dB Spot Size Area	0.024cm <sup>2</sup>
1/e <sup>2</sup> Power Density**	1.97W/cm <sup>2</sup>
-3dB Power Density	4.13W/cm <sup>2</sup>
Beam divergence half angle	5° x 27°
Beam divergence full angle	10° x 54°
NOHD*	64cm
Safety Spectacles	OD3 minimum at 810nm
Classification Class	3B LASER
Application	Analgesia, deep anti-inflammatory & deep tissue repair

\* NOHD - Nominal Ocular Hazard Distance - The distance at which the Laser output is safe to view without safety spectacles i.e. below the MPE.

\*\* 1/e<sup>2</sup> The spot size is recommended to be used for dosage calculations.