

## 810nm 200mW single laser probe



WAVELENGTH	808nm $\pm$ 5nm @ 25 ° C
SPECTRAL WIDTH	1.2nm FWHM
SEMI-CONDUCTOR MATERIAL	GaAlAs
CONSTRUCTION	Quantum well Separate Confinement Hetrostructure
AVERAGE POWER	200 mW
1/e <sup>2</sup> SPOT SIZE & SHAPE**	1.81 x 0.64mm, elliptical
-3dB SPOT SIZE & SHAPE	1.17 x 0.39mm, elliptical
1/e <sup>2</sup> SPOT SIZE AREA**	0.0364 cm <sup>2</sup>
-3dB SPOT SIZE AREA	0.0143 cm <sup>2</sup>
1/e <sup>2</sup> POWER DENSITY**	<b>4.75W/cm<sup>2</sup> (47500Wm<sup>-2</sup>)</b>
-3dB POWER DENSITY	7W/cm <sup>2</sup> (70000Wm <sup>-2</sup> )
BEAM DIVERGENCE	5° x 27°
NOHD*	64 cm
SAFETY SPECTACLES	OD3 minimum at 810nm
CLASSIFICATION	CLASS 3B LASER
APPLICATION	Analgesia, deep anti-inflammatory & deep tissue repair
POLARISATION	Linear

\* 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