

810nm 1W laser cluster (5 x 200mW)



This probe contains five 810nm Laser Diodes each with the following spec.:-

Wavelength	810nm \pm 5nm @ 25° C
Spectral Width	1.2nm at 50% intensity
Semi-Conductor Material	GaAIAs
Construction	Quantum well Separate Confinement Hetrostructure
Average Power	200mW
1/e ² Spot Size & Shape**	0.114cm x 0.324cm, elliptical
-3dB Spot Size & Shape	0.072cm x 0.208cm, elliptical
1/e ² Spot Size Area**	0.029cm ²
-3dB Spot Size Area	0.0117cm ²
1/e ² Power Density**	5.96W/cm ² (59600Wm ⁻²)
-3dB Power Density	8.55W/cm ² (85500Wm ⁻²)
Beam divergence half angle	5° x 27°
Beam divergence full angle	10° x 54°
NOHD*	1.15m
Safety Spectacles	OD4 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/e² The spot size is recommended to be used for dosage calculations

This probe also has four 660nm LED's, intended as a guide beam, with the following spec.:-

Wavelength	660nm \pm 10nm @ 25° C
Spectral Width	50nm at 50% intensity
Average Power	10mW typical
1/e ² Spot Size	0.2cm ²
Power Density	50mW/cm ² (750Wm ⁻²)
Beam Divergence	12°