

VISIBLE COMPONENTS

HPD Series 1200

**Visible CW Lasers
for Medical and Display Applications**



The HPD Series 1200 are state-of-the-art, high power CW visible diode lasers. These broad area multimode lasers offer extremely high brightness, excellent reliability, good quantum efficiency, and low thermal impedance. Close tolerances to ± 3 nm are provided in certain wavelengths. Available in a variety of

open, window, and fibered packages, including C mount, 9mm, TO3 with TE cooler, and HHL with TE cooler and fast axis collimator, these lasers are easily integrated into systems. Applications include photodynamic therapy, medical imaging and diagnostics, illumination, optical pumping, and process control.

Typical Specifications @ 15°C

HPD Series 1200		1202	1202	1203	1203	1205	1207
Output Power	(W)	0.25	0.25	0.35	0.35	0.50	0.70
Source Size	(μ m)	100	100	100	100	200	200
Typical Wavelength	(nm)	635	655	635	655	635	635
Operating Current	(A)	0.55	0.55	0.65	0.65	1.1	1.3
Operating Voltage	(A)	2.3	2.3	2.3	2.3	2.4	2.4
Wavelength Tolerance	(nm)	± 3	± 5	± 3	± 10	± 3	± 3
Threshold Current	(A)	0.3	0.3	0.3	0.3	0.6	0.6
Series Resistance	()	0.4	0.4	0.4	0.4	0.35	0.35
Spectral Width		1 nm					
Slope Efficiency		1 W/A					
Beam Divergence		10 x 40 deg (FWHM)					
Max Laser Temperature		15°C					
Typical Packages		9mm, C, TO3, HHL					

4 Stanley Boulevard,
Hamilton International
Technology Park,
Blantyre, Glasgow, G72 0BN
Scotland
Tel: +44 (0) 1698 827000
Fax: +44 (0) 1698 827262

E-mail: sales @intenseco.com
Web: www.intenseco.com

1200A Airport Road
North Brunswick, NJ 08902
USA
Tel: +1 732 249 2228
Fax: +1 732 249 8139

Drivers

Intense-HPD can recommend companies offering commercial drivers for visible CW laser diodes. Contact an applications engineer for additional information.

Safety

Intense-HPD Gallium Indium Arsenide Phosphide lasers emit radiation which is visible to the human eye. Safety precautions must be taken to prevent potential eye damage. Do not view or stare at operating lasers. If viewing is required, use a matte surface or suitable viewing screen.

Disclaimer

Intense-HPD reserves the right to make changes at any time as necessary to improve the design and to supply the best product. The information provided is believed to be accurate at the time of printing. No responsibility is assumed for its use or on the infringements on the rights of others.