方全有限公司
Rapitech Enterprise Co.,Ltd.

連續式固態雷射
Continuous Solid-State Laser

Laser Quantum finesse

Finesse系列 綠光雷射

Finesse the Ultra Quiet CW 532nm Laser

Typical Applications

- femtosecond / CW Ti: Sapphire pumping
- ITO marking / etching
- biomedical imaging

The finesse is used globally and is a world leader in its class. Delivering a range of powers at 532nm, continuous-wave, and with the diode fibre-coupled to the laser head, the laser is small, efficient and does not require water-cooling to operate. These features, combined with noise < 0.15% rms and M^2 < 1.1, make the finesse an ideal OEM laser or research tool.

Technical Specifications

	FINESSE 4	FINESSE 5	FINESSE 6	FINESSE 7	FINESSE 8	FINESSE 10
Power	Watts	5 Watts	6 Watts	7 Watts	8 Watts	10 Watts
Wavelength	532 nm	532 nm	532 nm	532 nm	532 nm	532 nm
Beam size	2.25mm +/- 0.25mm	2.25mm +/- 0.25mm	2.25mm +/- 0.25mm	2.25mm +/- 0.25mm	2.25mm +/- 0.25mm	2.25mm +/- 0.25mm
Spatial mode	TEM_{00}	TEM_{00}	TEM_{00}	TEM_{00}	TEM_{00}	TEM_{00}
Ellipticity	1:1.1	1:1.1	1:1.1	1:1.1	1:1.15	1:1.15
Bandwidth	50 GHz	50 GHz	50 GHz	50 GHz	50 GHz	50 GHz
Divergence	0.4 mrad	0.4 mrad	0.4 mrad	0.4 mrad	0.4 mrad	0.4 mrad
M-squared	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1
Power stability *1	< 0.1%	< 0.1%	< 0.1%	< 0.1%	< 0.1%	< 0.1%
Beam pointing stability	< 2 urads	< 2 urads	< 2 urads	< 2 urads	< 2 urads	< 2 urads
RMS noise *2	<0.15%	<0.15%	<0.15%	<0.15%	<0.15%	<0.15%
Noise bandwidth	1Hz to 6MHZ	1Hz to 6MHZ	Hz to 6MHZ	1Hz to 6MHZ	1Hz to 6MHZ	1Hz to 6MHZ
Polarisation ratio	100:1	100:1	100:1	100:1	100:1	100:1
Polarisation direction	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
Coherence length	6mm	6mm	6mm	6mm	6mm	6mm
Beam angle *3	1 mrad	1 mrad	1 mrad	1 mrad	1 mrad	1 mrad
Operating temperature	25-40 deg C	25-40 deg C	25-40 deg C	25-40 deg C	25-40 deg C	25-40 deg C
Head weight	2.5 kg	2.5 kg	2.5 kg	2.5 kg	2.5 kg	2.5 kg
Umbilical length	2 m	2 m	2 m	2 m	2 m	2 m
Warm-up time	10 min	10 min	10 min	10 min	10 min	10 min

Subject to change without notice.
*1. Test duration >100 hrs.
*2. Measured at specified power.
*3. Tolerance relative to head orientation.

方全有限公司
Rapitech Enterprise Co.,Ltd.
244 新北市林口區仁愛路二段309號10樓
Tel : 886-2-2608-8096(台北) / Tel : 86-21-6248-3333(上海) / Fax : 886-2-2608-8092
E-mail : sales@rapi-tech.com.tw www.rapi-tech.com