LAHOL **L** aboratory for **A** pplied **HO** lography and **L** asertechnique

Hauptstrasse 51
D-55767 Hattgenstein
Germany
Tel. (+49) – (0)6782 – 988696
Fax. (+49) – (0)6782 – 9848347
eMail info@lahol.biz
www.lahol.biz

# CW-DPSS Laser GLL-Series

**The GLL-Series is a low noise version with an output power at 5, 10 or 20 mWatts. The superior beam characteristics make these lasers suitable for very demanding OEM- applications calling for best noise performance and excellent power stability.**

**With an output noise of < 1% rms these systems provide a coherence length of > 5 m, making the GLL-Series especially suitable for holography and other applications, requiring high performance laser beams.**

| Laser | GLL-5 | GLL-10 | GLL-20 |
|---|---|---|---|
| Wavelength | 532 nm | | |
| Output power | 5 mW | 10 mW | 20 mW |
| Operating mode | CW | | |
| Transversal mode structure | TEM00 | | |
| Spektral composition | several modes | | |
| Beam diameter | < 1.0 mm | | |
| Divergence | < 1.2 mRad | | |
| Pointing stability | < 0.1 mRad/ hr. | | |
| Polarisation | >100 : 1 | | |
| Power stability | < 5%/ 4 hrs. | | |
| Noise (10 Hz - 20 MHz) | < 1 % rms | | |
| Coherence length | > 5 m | | |
| Warm up time | <15 min. | | |
| Operating temperature | + 10° - + 40° C | | |
| Warranted lifetime | >3000 hrs. | | |
| Average lifetime | >5000 hrs. | | |
| Laser head dimensions | 90 × 40 × 26 mm | | |
| Power supply dimensions | 206 x 137 x 75 mm | | |
| Mains supply | 220 VAC, 110 VAC | | |
| Power consumption | 50 VA | | |

**In order to guarantee the performance parameters, the systems are provided with a factory calibrated power control electronics.**