

## LTL946S 946nm DPSS Infrared Laser

### Detailed Specification

Output Wavelength	946nm ± 1nm
Output Power	10~400mW
Beam Mode	TEM <sub>00</sub>
Longitude Mode	Multiple
Operating Mode	CW

### Mechanical Drawing

Mode Quality (M <sup>2</sup> )	<1.2
Beam Divergence, Full Angle	2.0 ± 0.2mrad
Beam Diameter (1/e <sup>2</sup> ) @ Exit	1.5 ± 0.2mm
Power Stability	5% (rms, over 2 hours, T= 25°C)
Polarization, Linear	100:1

### Electrical Parameter

Power Supply	ADR 3000 LED Display, Current Adjustable,
Input Voltage	85~240VAC, 50/60Hz
Modulation	Analog (10KHz) or TTL modulation (10KHz, 30KHzoptional )

### Mechanical Parameter

Dimensions of Laser Head	160× 78 × 60mm
Weight of Laser Head	0.5Kg
Dimensions of Power Supply	155x154x85
Weight of Power Supply	0.6Kg

### Reliability

Warm Up Time	<10minutes
Operating Temperature, Case	0°C ~ 40°C
Storage Temperature	-20°C ~ 60°C
Expected Operation Lifetime	10000 hours
Warranty	12 months

### Note

**[1]** 0.1mrad ~ 1.0mrad beam divergence is available upon request.

**[2]** Better Stability (<1% rms, over 2 hours, 25°C) or ultra-Stability (<1% rms, over 24 hours, 25°C) is available upon request.

**[3]** 50cm coherent length is available upon request.

**[4]** The power supply with adjustable knob (ADR-180A) is available upon request.

**[5]** 30KHz TTL modulation (0=laser off, 1=laser on) or 10KHz Analog modulation (0~5VDC) is available upon request.

**[6]** The Laser is designed to operate without heat sink. Do not restrict air circulation around the device; an additional heat sink can be used to maximize the

