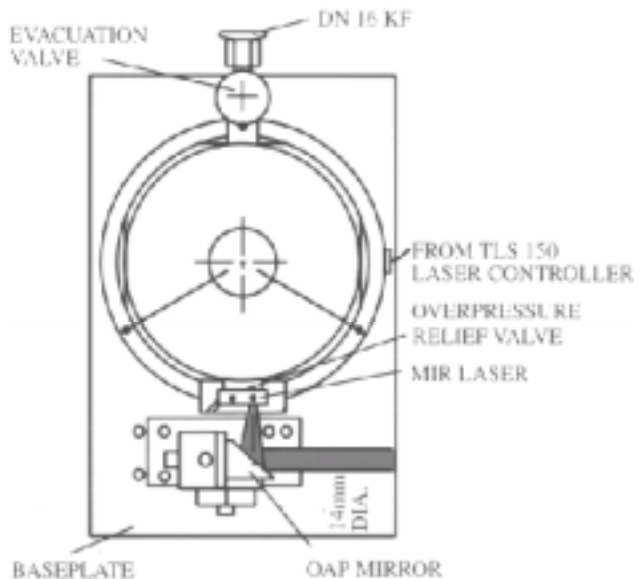
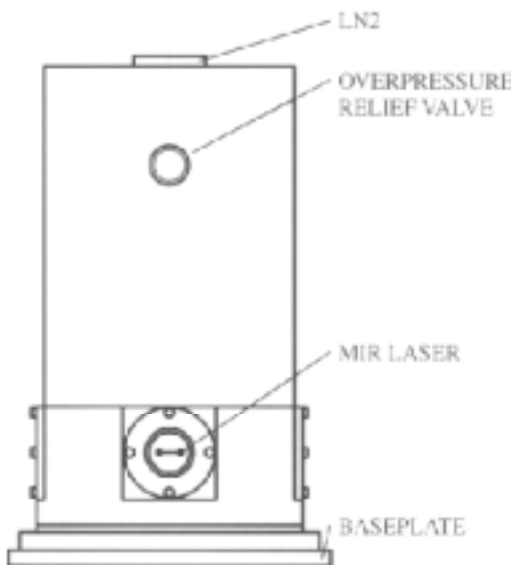


OLS 150 Tunable IR-Laser Source

DESCRIPTION

The OLS 150 is ideal for applications which require a tunable mid-infrared laser source. The OLS 150 consists of three parts: the TLS 150 laser controller, the OLS 110 liquid nitrogen cooled laser head, and the TLS 509-40 laser collimator.



SPECIFICATIONS

OLS 110 Laser Head and collimator

Operating temperature range	85-125K
Cool down time	Approx. 25 minutes
Hold time (no load)	Approx. 36 hours
Liquid nitrogen consumption (no load)	<2 dm ³ /day
Liquid nitrogen consumption (with load)	3-5 dm ³ /day
Dimensions of baseplate	300x200x10mm
Optical axis height above baseplate	60mm
Diode laser capacity	2
Window material	Barium fluoride
Collimator TLS 509-40 on x, y, z-stage	90° off-axis gold-coated parabolic mirror
Output beam	Parallel; diameter 14mm

TLS 150 Laser Controller

Power supply	90-110V, 103-127V, 207-253V; 50-60Hz
Dimensions	232 x 143 x 370mm
Temperature control	
Control range	15-300K
Temperature stability with PT 1000 sensor	+/- 0.1mK
Temperature sensor current	10μA/100μA switchable
Current control	
Range	0-1000mA
Noise	<10μA
Current limit	Adjustable 0-1000mA; step size 0.1mA
Current type	cw
External modulation	Via BNC input, bandwidth 500kHz
Modulation coefficient	100mA/V
Setting resolution	+/-0.1mA
Max. current and temperature settings for optimal protection of the laser diodes	

OPTIONS

- Diode Lasers selectable between 3 and 10.5μm, ask us for details
- Software to control the laser
- Complete systems include a scanning monochromator, for the wavelength range between 3 and 25μm
- Software for the system control and for the rapid scan spectroscopy data acquisition

Due to ongoing product development, all specifications are subject to change without notice

