

SL-03 series stabilised HeNe lasers



The SL-03 series of stabilised HeNe lasers employ a patented dual-longitudinal-mode stabilisation technique providing high frequency and amplitude stabilities, low optical feedback and extremely rapid warm-up. They consist of a compact cylindrical head incorporating the laser tube, plus a separate tabletop unit housing the high-voltage supply and control electronics. There is a front-panel switch for selecting frequency-stabilised or amplitude-stabilised operation. An internal thread at the beam exit provides a rigid mount for mechanical shutters or various optical components. Fibre couplers with pigtailed for mating to monomode or multimode fibres are optional.

Major features & benefits:

- High frequency and amplitude stability
- Choice of two modes of operation – frequency or amplitude stabilised
- Rapid warm up – typically <10min
- Compact design
- Standard thread connector for accessories, e.g. fibre couplers
- CE marked and compliant with EN 61010-1, 60825-1, 55011 & 50082-1

Options:

- Datasheet with absolute frequency (max error 1MHz) measured in comparison to an iodine-stabilised HeNe laser
- Installation and alignment of a Faraday isolator in order to eliminate optical feedback
- Marking to indicate the plane of polarisation of the beam
- Extended or shifted operating temperature range
- Couplers for multimode or monomode fibres
- Fibreoptic connector, e.g., a DIN-connector, installed on the fibre exit end

