

Laser Sensor & Seeker Evaluation Kit

Type: LASSEK-1064, LASSEK-1064-H, LASSEK-1064-EH

Laser Sensor & Seeker Evaluation Kit is available in three models: **LASSEK-1064**, **LASSEK-1064-H** and **LASSEK-1064-EH**. All three models are portable *Electro-optic Test Systems* that can be used for laboratory and field evaluation of a wide range of laser sensors operating at 1064 nm. The systems generate a collimated pulsed laser beam at user defined pulse repetition frequency and power density in the specified ranges of 0.0005 – 5 mW/cm² (LASSEK-1064), 0.0005 – 10 mW/cm² (LASSEK-1064-H) and 0.0005 – 50 mW/cm² (LASSEK-1064-EH) . Adjustable power density feature allows simulation of different operational ranges. Power density is set manually from an external knob provided for the purpose. User-defined PRF allows evaluation of laser seekers at different PRF codes. The systems can operate at four different pulse widths of 10, 20, 30 and 40 ns to facilitate evaluation of seekers for different target designators. They also have CW beam option to facilitate viewing of laser spot through night vision device. A collinear visible beam is provided to facilitate alignment of test system with sensor under test. *A variant of each type capable of setting the power density, the PRF and the pulse width from a remote PC using RS-232/RS-422 protocol is also offered.*



Specifications

- **Type of Laser** : Semiconductor Diode Laser
- **Operating Wavelength** : 1064 ± 10 nm
- **Pulse Width (Settable)** : 10, 20, 30 and 40 ns
- **Pulse Repetition Frequency (PRF)** : 5 – 50 Hz
- **Inter-Pulse Interval Range** : 20 – 200 ms
- **PRF Resolution in Time Interval** : ± 1µs
- **Power Density Range** : Continuously Variable from 0.0005 – 5 mW/cm² (LASSEK-1064), 0.0005 – 10 mW/cm² (LASSEK-1064-H) and 0.0005 – 50 mW/cm² (LASSEK-1064-EH)
- **Power Density Setting Resolution** : 0.1 mW/cm² (Typical)
- **Laser Spot Diameter** : 60 mm
- **Dimensions** : Not More Than 475 mm x 135 mm x 140 mm (L x B x H)
- **Weight** : Not more than 6 kg

Typical Applications

- Laser sensor evaluation in both **DIRECT** and **SCATTERED** illumination modes
- Laser seeker evaluation for **SENSITIVITY**, **PRF COMPATIBILITY** and **FALSE CODE REJECTION**
- Laser guided munitions **SERVICEABILITY CHECK**



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