

The OEwaves' HI-Q® OE4001 Relative Intensity Noise (RIN) Analyzer offers a fully automated measurement of ultra-low RIN CW laser sources.



*Factory PC option shown

HI-Q® RIN Analyzer is capable of automatically and rapidly measuring relative intensity noise spectrum without complex setup.

This system is unique in wideband measurement. The complete system operates with ease, speed and precision via a simple PC-based graphic user interface. No additional test equipment required. The unmatched ultra-low relative intensity noise analyzer is scalable to various input wavelength bands and is available with multiple frequency range options. This system is ideal for manufacturing and research environments.

FEATURES

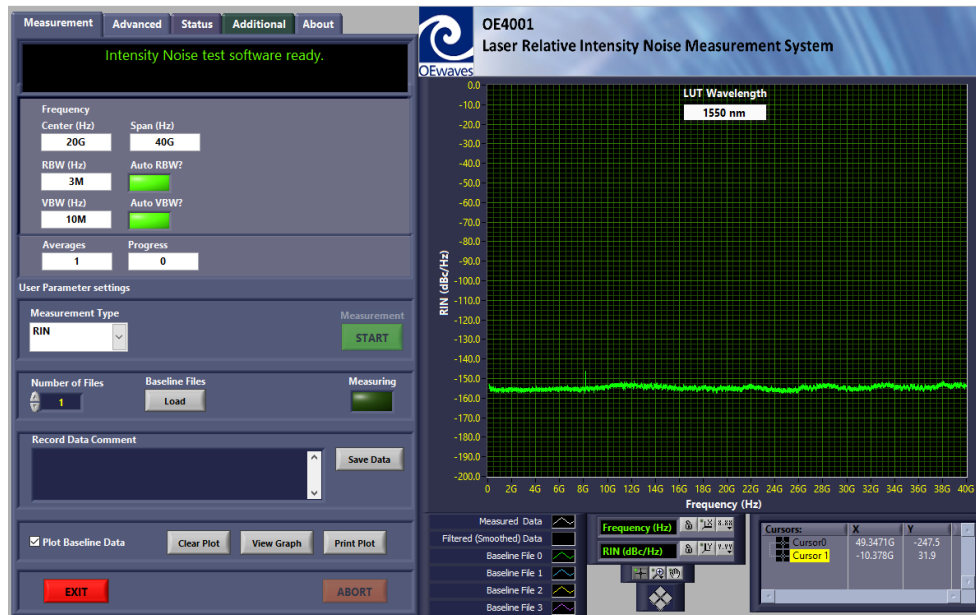
- Ultra-Low Relative Intensity Noise Measurement
- Fast Real-Time Measurement
- User Friendly Interface
- Simple PC-based Operation
- 3U x 19" Rack System

OPTIONAL CONFIGURATION

- Multiple Input Wavelength Bands within 740 nm – 2150 nm
- Ultra-Low Noise Floor
- Extended Frequency Range up to 40 GHz
- Excess RIN Measurement
- Extended Input Power Range
- Remote Operation
- Range Options and Upgrades

HI-Q® RELATIVE INTENSITY NOISE ANALYZER

OE4001



SPECIFICATIONS

1530 – 1565 nm

RIN System Floors ¹	-156 ± 2 dB/Hz -161 ± 2 dB/Hz -166 ± 2 dB/Hz	Total RIN Option; Ultra-low total RIN Option; Excess RIN
Optical Input Power Range	+0 to +10 dBm	SM-FC/APC
Offset Frequency Range	100MHz – 18GHz, 27GHz or 40GHz	1Hz – 100MHz available in OE4000
Measurement Types	Total RIN Excess RIN	Conventional measurement Option; Excludes shot and thermal noises
Operating Interface	External PC; OR Monitor/Keyboard/Mouse ; OR Factory PC Laptop	User supplied; WIN7 PRO+; Via LAN User supplied; Via HDMI/USB Option
Operating Temperature Range	15°C to 35°C	
Power	110/120 or 220/240 V _{ac} ; 50/60Hz	
Size	3U x 19: Rack Mount	Larger for 40GHz option

OPTIONS

Input Power Range ¹	Up to 15 dB range no less than -10 dBm AND no higher than +15 dBm
Wavelength Ranges Available ²	740 – 935 / 965 – 1065 / 1000 – 1100 / 1260 – 1360 / 1360 – 1460 / 1460 – 1530 / 1530 – 1565 / 1565 – 1625 / 1647 – 1655 / 1950 – 2150 (nm) (Consult factory for multi-wavelength range options and custom wavelength ranges)
Phase / Frequency Noise	Consult Factory (ask us about OE4000)

Note: These specifications are subject to change without notice due to OEwaves ongoing development cycle. Patents Pending.

Note: Unless otherwise noted, noise floor is optimum at maximum specified input power range.

¹System noise floor is higher with low power range options. Consult OEwaves Sales for custom low power options and/or performance. Standard input power range may be band dependent.

²Noise Floor for systems with E, S and L telecom bands are 2 dB (typ.) higher than C-band specifications (3 dB with O-band configurations, 5 dB for 1647 – 1655 nm band); 7-11 dB higher for Visible region, 5-6 dB for 740nm-1.1µm, and 3-4 dB for 2 µm Input Wavelength Bands. Consult OEwaves Sales for other details.



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