

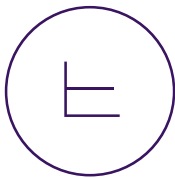
LASER

SWEPT, TUNABLE,
CONTINUOUS WAVE (CW)
LASER SOURCE

SPECIFICATION SHEET

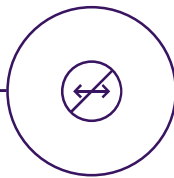
EPIQ-Laser uses a high quality grating paired with state-of-the-art micro-electromechanics tuning mechanism for quick, voltage-controlled wavelength tuning and exceptional reliability.

With 0.01 dB power stability and 400 nm/s high-speed scan rate, it is the perfect time-saving tool for R&D applications as well as production testing.



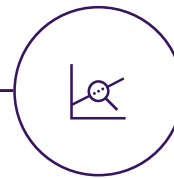
High power stability

Highly stable output power ensures accurate and consistent test and measurement results.



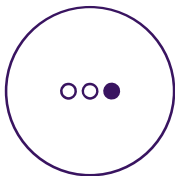
No moving bulk optics

State-of-the-art MEMS technology and no moving bulk optics offer reliable wavelength tuning.



Fine tuning resolution

Set the exact wavelength you need with eplQ-Laser's precision micro-electromechanics tuning.



Trigger at the start of each scan

The trigger output from the laser allows synchronization to the start and stop of each wavelength sweep



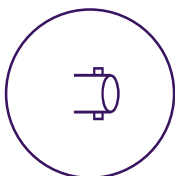
Fast sweep speed

Save time on your DUT characterization or speed up your measurement with eplQ-Laser's rapid sweep speed.



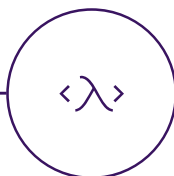
Swept or step-tuning modes

Intuitive software GUI makes it simple to configure the eplQ-Laser in fixed, continuous or step tuning modes



Analog power output

Provides a real-time reference of the laser's power output for an easy integration into automated test set-ups.



Wide coverage of wavelength options

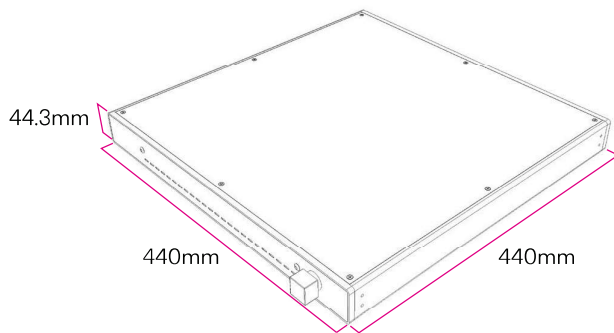
Choose from a wide range of operating wavelength ranges to suit your specific application.

EPIQ LASER INSTRUMENT AND DIMENSIONS

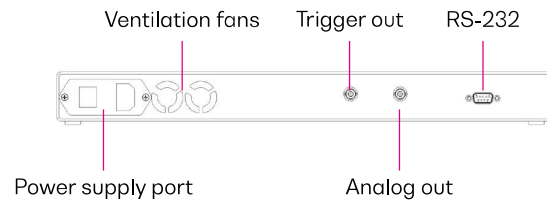


EPIQ-LASER-1001

Instrument dimensions



Rear panel connections



TARGET APPLICATIONS

- Optical component characterization
- High density fiber-optic sensor interrogation
- Biomedical imaging applications

EPIQ LASER TECHNICAL SPECIFICATIONS

General Specifications	1001	1002	1003
Operating wavelength range ¹	1260 to 1340 nm	1260 to 1420 nm	1520 to 1580 nm
Output power (one port)	≥ 5 mW	≥ 2 mW	≥ 10 mW
Power stability ²	± 0.01 dB	± 0.01 dB	± 0.01 dB
Power repeatability ³	≤ ± 0.05 dB	≤ ± 0.05 dB	≤ ± 0.05 dB
Wavelength stability ²	≤ ± 10 pm	≤ ± 10 pm	≤ ± 10 pm
Wavelength tuning resolution	≤ 10 pm	≤ 10 pm	≤ 10 pm
Signal to Source ASE Ratio ⁴	≥ 60 dB	≥ 60 dB	≥ 60 dB
Linewidth (FWHM)	18 to 53 GHz	18 to 53 GHz	≤ 53 GHz
Step tuning time	50 ms	50 ms	50 ms
Maximum sweep speed	400 nm/s	400 nm/s	400 nm/s
Power supply	110/220 V; 50/60 Hz; 60 W	110/220 V; 50/60 Hz; 60 W	110/220 V; 50/60 Hz; 60 W
Trigger output (BNC)	4 V pulse during sweep, 0 V when sweep has completed	4 V pulse during sweep, 0 V when sweep has completed	4 V pulse during sweep, 0 V when sweep has completed
Analog power output (BNC)	0 to 4 V linearly proportional to laser power in mW	0 to 4 V linearly proportional to laser power in mW	0 to 4 V linearly proportional to laser power in mW

General Specifications	1004	1005	1006
Operating wavelength range ¹	1260 to 1340 nm	1260 to 1420 nm	1520 to 1580 nm
Output power (one port)	≥ 5 mW	≥ 2 mW	≥ 10 mW
Power stability ²	± 0.01 dB	± 0.01 dB	± 0.01 dB
Power repeatability ³	≤ ± 0.05 dB	≤ ± 0.05 dB	≤ ± 0.05 dB
Wavelength stability ²	≤ ± 10 pm	≤ ± 10 pm	≤ ± 10 pm
Wavelength tuning resolution	≤ 10 pm	≤ 10 pm	≤ 10 pm
Signal to Source ASE Ratio ⁴	≥ 60 dB	≥ 60 dB	≥ 60 dB
Linewidth (FWHM)	< 200 MHz	< 200 MHz	< 200 MHz
Step tuning time	50 ms	50 ms	50 ms
Maximum sweep speed	120 nm/s	120 nm/s	120 nm/s
Power supply	110/220 V; 50/60 Hz; 60 W	110/220 V; 50/60 Hz; 60 W	110/220 V; 50/60 Hz; 60 W
Trigger output (BNC)	4 V pulse every 10 pm	4 V pulse every 10 pm	4 V pulse every 10 pm
Analog power output (BNC)	0 to 4 V linearly proportional to laser power in mW	0 to 4 V linearly proportional to laser power in mW	0 to 4 V linearly proportional to laser power in mW

Notes

1. Wavelength is calibrated as "Mean wavelength".
2. When measured after warm-up time, measurements over 1.25·1C.
3. For output power > 0 dBm with Tuning Speed 100nm/s, repeated over 100 measurements
4. ASE is measured at 0.1 nm bandwidth and +1 nm away from center wavelength

ORDERING INFORMATION

LASER - **XXXX - XX - EPIQ**



Model number

- 1001** = 1260 to 1340 nm wavelength range,
5 mW output power, 18 to 53 GHz linewidth
- 1002** = 1260 to 1420 nm wavelength range,
2 mW output power, 18 to 53 GHz linewidth
- 1003** = 1520 to 1580 nm wavelength range,
10 mW output power, \leq 53 GHz linewidth
- 1004** = 1260 to 1340 nm wavelength range,
5 mW output power, < 200 MHz linewidth
- 1005** = 1260 to 1420 nm wavelength range,
2 mW output power, < 200 MHz linewidth
- 1006** = 1520 to 1580 nm wavelength range,
10 mW output power, < 200 MHz linewidth

Connector type

- FC** = FC/PC
- FA** = FC/APC
- SC** = SC/PC
- SA** = SC/APC

WARRANTY INFORMATION

This product comes with a standard 1 year warranty.

EXTENDED WARRANTIES AND CALIBRATION PLANS

With an Extended Warranty and Calibration Plan you can spend more time focused on your priorities and less time worrying about maintenance.

Over time and with regular use, all optical parts and connectors require re-calibration and maintenance to guarantee accurate and reliable performance.

You can add a 3 or 5 year Extended Warranty at the time of purchase.

Guarantee peak performance

Ensure your equipment is operating at its best for reliable and accurate results.

Lower cost of ownership

Lock in savings and maximise your budget with a lower cost of ownership.

Peace of mind

Spend less time worrying about maintenance and more on generating results.

CALIBRATION PLANS FOR ADDITIONAL DISCOUNTS

Order a Calibration Plan when you purchase your Quantifi Photonics' test instruments and qualify for additional discounts.

10% Discount

On calibrations ordered at the time of purchase.

25% Discount

Add on an extended warranty and receive a 25% discount on calibrations.

With an instrument calibration performed by Quantifi Photonics technicians you receive.

- Comprehensive calibration to factory specifications
- End-to-end inspection to ensure all instrument functions are working and connectors are clean
- Firmware, software and documentation updates
- Certificate of Calibration which includes detailed test results

We recommend Quantifi Photonics optical instruments are re-calibrated every 12 months

How to purchase

Contact your Quantifi Photonics sales representative about our Extended Warranty or Calibration Plans today or email sales@quantifiphotonics.com.

Extended Warranties and Calibration Plans must be ordered at the time of purchase and are available only for Quantifi Photonics' products. The 25% calibration discount only applies to calibrations while the product is covered by the Extended Warranty period.

Test. Measure. Solve.

Quantifi Photonics is transforming the world of photonics test and measurement. Our portfolio of optical and electrical test instruments is rapidly expanding to meet the needs of engineers and scientists around the globe. From enabling ground-breaking experiments to driving highly efficient production testing, you'll find us working with customers to solve complex problems with optimal solutions.

To find out more, get in touch with us today.

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