

LASER BEAM MEASUREMENT

COMPANY PROFILE

Located in the heart of the Quebec Optical Hub, in beautiful Quebec City, Canada, Gentec Electro-Optics (Gentec-EO) has a long history in the laser measurement field. With a 35 year track record of innovation and providing quality solutions for laser power and energy measurement applications from the factory to the hospital and laboratory, Gentec-EO stands ready to serve you now and in the future.

A Long History



World's First Pyroelectric Detector in 1972

As a former laser manufacturer, Gentec-EO knows the needs of its customers. In fact, its first laser energy measurement products were developed for internal use as the company put the first high repetition rate TEA CO₂ lasers on the market in 1972. Gentec, Inc. introduced the first pyroelectric joulemeters shortly after that. Gentec, Inc. was also the first to manufacture both thermopile and pyroelectric laser power and energy detectors. In the mid 1990s, the company introduced the WB series (today known as the W5 and W9 series) with an average power density damage threshold of over 100 kW/cm², that is still unrivalled today. In 2000, Gentec Electro-Optics, Inc. was formed from Gentec, Inc. so that it could focus entirely on thermal laser power and energy measurement.

Precise Manufacturing



We are committed to providing you the best NIST traceable measurements available anywhere. Furthermore, we will push the performance of our detectors to keep pace with you as you push the performance of your lasers. This year, we have several new products, both in the extremely high and extremely low powers, to offer you a product range more complete than ever.

Worldwide Presence



Gentec-EO has an evergrowing presence everywhere around the world. Each year, we keep adding new partners in various countries. Our latest additions are Thailand, Singapore and Vietnam. We also have a strong presence in most of the European and Asian countries.

When you send a unit to us for repair or recalibration, you are entitled to expect your unit back in as short a time as possible. With calibration centers on 2 continents, Gentec-EO has a solid presence and fast turn-around times, just what you need to keep pace with today's rapid market.

Monitors

Energy Detectors

Power Detectors

OEM Detectors

Calorimeters

Diffraction Optics

Beam Diagnostics

OUR MAIN PRODUCTS

MONITORS



Single or Dual Channels

Gentec-EO offers you the choice between single channel monitors and the commodity of dual channels. You can also choose to use our single channel monitors in parallel and turn your PC into a multi-channel device.

Handheld or PC-Based

Because there are a lot of needs out there, we also have a lot of choices when it comes to the shape and use of a monitor. As a user, you thus have the choice between Power & Energy or Power only monitors, both in the shape of handheld devices or PC-based units.

ENERGY DETECTORS



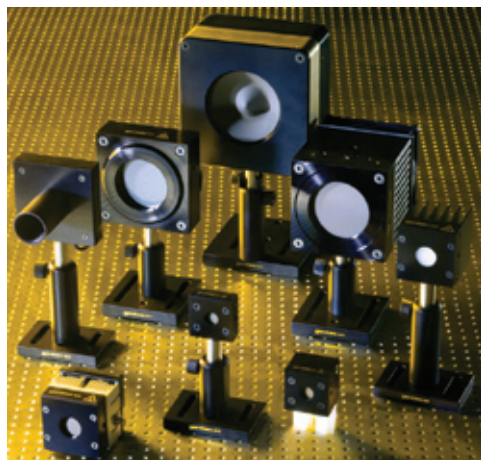
High Damage Thresholds

Our detectors have an energy density damage threshold as high as 0.6 J/cm² for ns pulses with our multi-band (MB) coating. This unequalled value gives you the extra robustness needed to measure today's extremely demanding lasers.

Fast Repetition Rate, up to 6000 Hz

The metallic absorber of the QE and XLE4 Series makes them an excellent choice for pulsed lasers, with repetition rates up to 6000 Hz. This absorber can be used with many different types of lasers due to its broad spectral range.

POWER DETECTORS



Personal Wavelength Correction™

You get an overall accuracy that is not more than $\pm 1\%$ away from the calibration accuracy, no matter where you are in the band. This wavelength correction is based on measurements of your individual detector instead of a general curve for the absorber material. That means you have the best wavelength correction available today.

High Damage Thresholds

Your laser is a tough one? You will need our high damage threshold absorber. From 36 kW/cm² with the H type to 100 kW/cm² with the WB absorber, we provide the best damage thresholds on the market. Also, for pulsed laser with high peak power, we have the VR volume absorber that can withstand up to 40 J/cm².