COMPANY PROFILE
In 2000, Gentec Electro-Optics Inc. was born from Gentec Inc. so it could dedicate all its efforts to the development of laser beam measurement devices. More recently, in 2010, the company came up with its MAESTRO, the first touch screen monitor of the market. During the same year, the acquisition of Spectrum Detector Inc. allowed the company to add, among others, measurement solutions to the new and rapidly expanding THz market, ultra-sensitive optical joulemeters (down to femtojoules), and pulse to pulse energy measurement devices for lasers with repetition rates up to 200 kHz.

The history of Gentec-EO is punctuated by numerous innovations. As a former laser manufacturer, the company is very close to the needs of its customers. The first laser energy measurement products were developed by Gentec Inc. in 1972 for internal use, as the company manufactured the first high repetition rate TEA CO2 lasers on the market place. Gentec Inc. was also the first to introduce pyroelectric joulemeters and to manufacture both pyroelectric and thermopile laser power and energy detectors. In the mid-1990’s, the company introduced the WB series of detectors (now known as the W5 and W9 series), which are characterized by an average power density damage threshold over 100 kW/cm² that is still unrivalled nowadays. Also, since it can measure 25 kW and even up to more than 50 kW, the HP series of detectors is a market leader in the measurement of high power lasers.

In 2000, Gentec Electro-Optics Inc. was born from Gentec Inc. so it could dedicate all its efforts to the development of laser beam measurement devices. More recently, in 2010, the company came up with its MAESTRO, the first touch screen monitor of the market. During the same year, the acquisition of Spectrum Detector Inc. allowed the company to add, among others, measurement solutions to the new and rapidly expanding THz market, ultra-sensitive optical joulemeters (down to femtojoules), and pulse to pulse energy measurement devices for lasers with repetition rates up to 200 kHz.
WHO WE ARE

OUR FIELDS OF EXPERTISE

LASER POWER & ENERGY METERS
We have the most complete range of laser measurement products in the industry. Our energy detectors cover from just a few fJ to several kJ and our power detectors span a wide range, from a few pW to tens of kW.

BEAM PROFILING
Measuring the power or energy of your laser is not always sufficient. If you need to know more about your beam diameter, intensity profile and divergence we have a full range of beam profilers, including cameras and scanning systems.

LARGE AREA CALORIMETERS
A Gentec-EO calorimeter is the only reliable solution available for the largest and highest energy laser beams. Through cooperation with several leading research facilities around the world, Gentec-EO has become the expert in manufacturing, calibrating and servicing high energy calorimeters.

THZ MEASUREMENT
We are proud to offer an extensive line of power and energy detectors for the terahertz spectrum. Our product line features easy plug-and-play solutions and complete application software.

CUSTOMIZED PRODUCTS & OEM APPLICATIONS
After more than 40 years in the laser beam measurement business, we have developed many customized solutions, sometimes for very unusual applications. Whether your project is big or small, do not hesitate to send us your requests, we will listen to your needs.

TRACEABLE CALIBRATION
At Gentec-EO we use only Gold Calibration standards, guaranteeing our customers the best accuracy on the market. We also offer our in-house calibration expertise to customers outside the laser market so do not hesitate to bring us all your calibration needs.

VERTICAL INTEGRATION

FROM R&D

TO MANUFACTURING

TO CALIBRATION

Traceable
OUR PRODUCTS

POWER & ENERGY MONITORS

WITH DISPLAY

MAESTRO
Universal Monitor
Touchscreen Controls

TUNER
Power Monitor
Super-Fast Tuning Needle

UNO
Power Monitor
Economic Model

PC BASED

S-LINK
Power & Energy Monitor
1 or 2 Channels

P-LINK
Power Monitor
1 or 4 Channels

M-LINK
Universal Monitor
Noise Suppression Algorithm

INTEGRA
Integrated Monitor
Available with Power, Energy and Photo Detectors
Now with RS-232 and External Trigger

ENERGY DETECTORS

LOW ENERGY

QE-B
50 nJ - 4 mJ
8 mm
Very Low Noise Level

MID TO HIGH ENERGY

QE-MB
1 μJ - 250 J
12, 25, 50, 65 and 95 mm
Long Pulse Capability

QE-MT
1 μJ - 44 J
12, 25 and 50 mm
High Repetition Rates
OUR PRODUCTS

POWER DETECTORS

LOW POWER

<table>
<thead>
<tr>
<th>Product</th>
<th>Range</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>XLP12</td>
<td>1 µW - 3 W</td>
<td>12 mm Ø</td>
</tr>
</tbody>
</table>

MID POWER

<table>
<thead>
<tr>
<th>Product</th>
<th>Range</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>UP-H</td>
<td>1 mJ - 500 W</td>
<td>12, 19, 25 and 55 mm Ø</td>
</tr>
</tbody>
</table>

MID TO HIGH POWER

<table>
<thead>
<tr>
<th>Product</th>
<th>Range</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>UP55-HD</td>
<td>45 mW - 2,500 W</td>
<td>55 mm Ø</td>
</tr>
</tbody>
</table>

MID POWER - HIGH DAMAGE Tresholds

<table>
<thead>
<tr>
<th>Product</th>
<th>Range</th>
<th>Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>UP-W</td>
<td>1 mW - 50 W</td>
<td>17 and 50 mm Ø</td>
</tr>
</tbody>
</table>

POCKET-SIZE

<table>
<thead>
<tr>
<th>Product</th>
<th>Range</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pronto-250</td>
<td>1 W - 250 W</td>
<td>Instantaneous Measurements, YAG and CO₂ Calibrations, Compact Power Probe with Touch Screen</td>
</tr>
</tbody>
</table>

HIGH POWER SOLUTIONS

HIGH POWER

HP & SUPER HP
3 W - 100,000 W
From 60 to 400 mm, Custom Sizes

HANDHELD

FLASH and FLASH-IPL
1 W - 500 W / 2 J - 350 J
55 mm Ø

BEAM DUMPS

BD Series
4,000 and 12,000 W
100 mm Ø
# OUR PRODUCTS

## PHOTO DETECTORS

<table>
<thead>
<tr>
<th>POWER</th>
<th>ENERGY</th>
<th>POCKET-SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PH-B</strong>&lt;br&gt;40 pW - 200 μW&lt;br&gt;5 and 10 mm Ø&lt;br&gt;Si and Ge Sensors&lt;br&gt;Available with integra</td>
<td><strong>PH</strong>&lt;br&gt;600 pW - 750 mW&lt;br&gt;5 and 10 mm Ø&lt;br&gt;Si and Ge Sensors&lt;br&gt;Attenuators Available&lt;br&gt;Available with integra</td>
<td><strong>Pronto-Si</strong>&lt;br&gt;0.3 nW - 800 mW&lt;br&gt;Compact Power Probe with Touch Screen&lt;br&gt;Integrated Slide-In Attenuator&lt;br&gt;Flips Close to Protect the Screen and Sensor</td>
</tr>
<tr>
<td><strong>PE-B</strong>&lt;br&gt;8 fJ - 150 nJ&lt;br&gt;3, 5 and 10 mm Ø&lt;br&gt;Si, Ge and InGaAs Sensors&lt;br&gt;Ultra-Low Energy Readings</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## THZ DETECTORS

### THERMAL

| **THZ-D**<br>1 μW - 3 W<br>Works with Universal Monitors | **THZ-I-BNC**<br>1 nW - 200 mW<br>Integrated Module | **T-Rad**<br>THz Pyro Detectors and Module | **QS-THZ**<br>Hybrid Pyros |

### PYROS

## OEM DETECTORS

### DISKS

| **UD Series**<br>Thermal Sensor Disks<br>External PCB Available | **UP Series**<br>Complete Sensor Heads<br>Choice of Connectors | **UP Series with PCB**<br>Complete Sensor Heads<br>With Internal PCB<br>Choice of Connectors |
OUR PRODUCTS

SPECIAL PRODUCTS

ULTRAFAST JOULEMETERS

Mach Series
200 kHz Pulse-to-Pulse
The Fastest on the Market!

BEAM POSITIONING

QUAD
Measure, Track and Align your Beam in Real Time

DISCRETE PYROS

Discrete or Hybrid Pyroelectric Detectors
Small TO5/TO8 Packages Evaluation Test Box Available

CUSTOM PRODUCTS

MULTI-CHANNELS

OCTOLINK
8-Channel Software
Compare Data in Real Time

MULTI-SENSORS

6-Element Detector Bar
Instantaneous Measures of all the Elements

CUSTOM SHAPES

“Hollow” Detector
Large Diameter with Center Hole Option for eBeam Monitoring

CALORIMETERS

FOR HIGH ENERGY LASER EXPERIMENTS

Preferred Supplier
We work with the leading research facilities around the World

State-of-the-Art
We offer a wide range of materials and surface coatings for all applications

Customized
Any desired shape and size, as large as 420 x 427 mm and up to 16,000 Joules

Photo courtesy of Lawrence Livermore National Laboratory
OUR PRODUCTS

BEAM DIAGNOSTICS
USB3.0 BEAM PROFILING CAMERAS

Beamage-3.0
2.2 MPixels Resolution
5.5 μm Pixels
6.0 x 11.3 mm Sensor
2 Models Available:
  Beamage-3.0: 350 - 1150 nm
  Beamage-3.0-IR: 1495 - 1595 nm

Beamage-4M
4.2 MPixels Resolution
5.5 μm Pixels
11.3 x 11.3 mm Sensor
2 Models Available:
  Beamage-4M: 350 - 1150 nm
  Beamage-4M-IR: 1495 - 1595 nm

Beamage-4M-FOCUS
4.2 MPixels Resolution
12 μm Effective Pixels
20.5 x 20.5 mm Effective Aperture
Perfect for Large Beams

NEW

OUR PRODUCTS
USB3.0 BEAM PROFILING CAMERAS

Beamage-3.0
2.2 MPixels Resolution
5.5 μm Pixels
6.0 x 11.3 mm Sensor
2 Models Available:
  Beamage-3.0: 350 - 1150 nm
  Beamage-3.0-IR: 1495 - 1595 nm

Beamage-4M
4.2 MPixels Resolution
5.5 μm Pixels
11.3 x 11.3 mm Sensor
2 Models Available:
  Beamage-4M: 350 - 1150 nm
  Beamage-4M-IR: 1495 - 1595 nm

Beamage-4M-FOCUS
4.2 MPixels Resolution
12 μm Effective Pixels
20.5 x 20.5 mm Effective Aperture
Perfect for Large Beams

WWW.GENTEC-EO.COM

LEADER IN LASER BEAM MEASUREMENT SINCE 1972

CANADA
445 St-Jean-Baptiste, Suite 160
Quebec, QC, G2E 5N7, Canada
T (418) 651-8003
F (418) 651-1174
1 (888) 5GENTEC (Canada and USA only)
info@gentec-eo.com

UNITED STATES
5825 Jean Road Center
Lake Oswego, OR, 97035, USA
T (503) 697-1870
F (503) 697-0633
1 (888) 5GENTEC (Canada and USA only)
info@gentec-eo.com

CALIBRATION CENTERS
• 445 St-Jean-Baptiste, Suite 160
  Quebec, QC, G2E 5N7, Canada
• Werner von Siemens Str. 15
  82140 Oelching, Germany