MONITORS

ENERGY DETECTORS

POWER DETECTORS

HIGH POWER SOLUTIONS

PHOTO DETECTORS

THZ DETECTORS

OEM DETECTORS

SPECIAL PRODUCTS

BEAM DIAGNOSTICS

PRESENTATION

OVERVIEW OF THE DIFFERENT MODELS

The Gentec-EO monitors come is various sizes and types to cover all applications. We have monitors with or without display (PC-based) and for power or energy readings, or both. We also offer the fastest digital needle display on the market.

MAESTRO

The MAESTRO Power & Energy Meter is our top of the line display monitor with an extra-large 5.6in color LCD display and fully touch screen controls. With its unique user interface and faster electronics, it will do more, in less time, and with less effort than any other meter on the market!

TOUCH SCREEN   **COLOR LCD**   MULTIPLE LANGUAGES

TUNER

This Power Meter presents both a large LCD display and an ultrafast needle, up to 10X faster than anything else on the market. It comes with more features than the competition, like min and max holds for both displays, comet tail needle and bar graph function. The TUNER comes in Gentec-EO's ergonomic design, with a large LCD display and easy to use direct access keys.

■ ULTRA-FAST TUNING NEEDLE

UNO

The UNO is a simple Power Meter, with large contrast fields and direct access buttons. Its extremely low power consumption allows it to work on standard alkaline batteries, making it the monitor of choice for service technicians working in the field. With the lowest price for a display meter, the UNO is the perfect choice when looking for a reliable, entry-level power meter.

■ ECONOMICAL POWER METER

S-LINK, P-LINK & M-LINK

The S-LINK, P-LINK and M-LINK are PC-Based Power or Energy monitors that come with unique software applications. The S-LINK comes with 1 or 2 channels and measures energy detectors at a very fast rate. It comes with a USB interface, Ethernet being available in option. The P-LINK is a small power meter, available with either a USB or RS-232 interface. A 4-Channel version is also available. As for the M-LINK, it is a Universal Power & Energy Meter that measures ALL the detectors in our product range and features a unique noise suppression method.

■ PC-BASED POWER OR ENERGY METERS

COMPARISON TABLE

See page **36**

NEW

See page 38

integra — ALL-IN-ONE DETECTOR + METER

The INTEGRA is a meterless line of All-in-One detectors that combine a detector and a meter in one convenient product. The small but powerful meter of the INTEGRA Series presents a direct USB connection so you can plug it into your PC. Simply use the PC-Gentec-EO software supplied with your product! Available on all our most popular products, with either a USB or RS-232 interface and with or without External Trigger. **Watch out for the INTEGRA logo to identify the products available with INTEGRA.**

blu — WIRELESS LASER POWER METER

This new line of All-in-One detectors combine a detector and a meter with Bluetooth connectivity in one convenient product. The small but powerful meter of the BLU Series presents a Bluetooth connection so you can display the results on your mobile device with the Gentec-EO BLU app available for both iOS and Android systems. Need to use it with a PC? Simply plug in the included Bluetooth receptor and be ready to make power or energy measurements within seconds! **Watch out for the BLU logo to identify the products available with BLU.**

COMPARISON TABLE

	MAESTRO	TUNER	UNO	S-LINK	P-LINK	M-LINK	INTEGRA	BLU
DETECTOR COMPATIBILITY								
Power (Thermopiles)	•	•	•	•	•	•	•	• Some exceptions apply, see p.63
Power (Pyroelectrics -B)	•					•		
Power (Photo Detector)	•	•	•		•	•	•	
Power (Photo Detector -B)	•			•		•		
Power (THZ-D Detector)	•					•		
Energy (All Pyroelectrics)	•			•		•	•	
Energy (Thermopiles in Single Shot)	•			•	•	•	•	
Energy (Photo Detector -B)	•			•		•	•	
DISPLAY	5.6in LCD Touch Screen	3.8in LCD With Tuning Needle	3.8in LCD 32 mm Digits	None	None	None	None	None
PC INTERFACE	•			•	•	•	•	•
OUTPUTS								
USB	•			•	Standard	•	•	
USB Key Port	•							
RS-232	•			Optional	Optional		Optional	
Analog Output	•	•			•	•		
Ethernet	•			Optional				
Bluetooth								•
EXTERNAL TRIGGER	•			•		•	Optional	
FULL STATISTICAL FUNCTIONS	•			•	•	•	•	•
MAX REPETITION RATE	2 kHz (10 kHz sampling)			10 kHz/Channel		1 kHz	6 kHz	6.8 Hz
NUMBER OF CHANNELS	1	1	1	1 or 2	1	1	1	1
PRODUCT PAGE	**20**	**24**	**26**	**28**	**30**	**32**	**36**	**38**

INTEGRA

Embedded Monitor

MONITORS

ENERGY DETECTORS

POWER DETECTORS

HIGH POWER SOLUTIONS

PHOTO DETECTORS

THZ DETECTORS

OEM DETECTORS

SPECIAL PRODUCTS

BEAM DIAGNOSTICS

93.5 mW

USB
integra

KEY FEATURES

1. **ALL-IN-ONE DETECTOR + METER**
   Plug your detectors directly into your PC with the INTEGRA embedded monitor

2. **INCREDIBLE PERFORMANCE**
   INTEGRA detectors offer the same performance as the usual detector + monitor combination

3. **USB OR RS-232**
   INTEGRA detectors are offered with a choice of USB (standard) or RS-232 connector (in option)

4. **EXTERNAL TRIGGER**
   An external trigger is available in option on every compatible INTEGRA energy detector

5. **COMPACT SIZE**
   Perfect for the lab, OEM applications and field servicing. No need to carry a meter!

6. **LOWER RECALIBRATION COSTS**
   One Product = One Calibration. Reduce your recalibration costs by half!

7. **UNIVERSAL SOFTWARE-PC-GENTEC-EO**
   Control your INTEGRA detector with the same powerful software as the MAESTRO

8. **CUSTOMIZABLE**
   Contact us for custom cable lengths and serial commands

STANDARD	IN OPTION	WATCH OUT FOR THIS LOGO!

STANDARD

USB Model Name -INT
(available on all models)

To Detector

gentec-eo | integra

To PC

gentec-eo | integra

Secure it on your Optical Table

IN OPTION

RS-232 Model Name -IDR
(available on all models)

To Detector

Power Supply

gentec-eo | integra
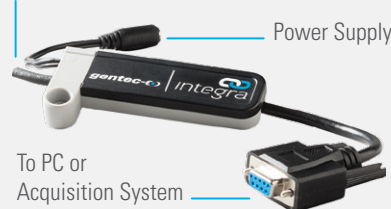
To PC or
Acquisition System

External Trigger Model Name -INE
(energy detectors only)

To Detector

External Trigger BNC

gentec-eo | integra

To PC

WATCH OUT FOR THIS LOGO!

AVAILABLE WITH **integra**

SEE ALSO

ENERGY DETECTORS	**40**
POWER DETECTORS	**66**
HIGH POWER DETECTORS	**102**
PHOTO DETECTORS	**116**

Watch the Introduction video available on our website at www.gentec-eo.com

PC-GENTEC-EO

UNIVERSAL SOFTWARE FOR **INTEGRA**, **MAESTRO**, **P-LINK** AND **HP**

0.740 mW

MAIN CONTROLS

Complete and easily navigable software interface with all the necessary options and tools:

Connection: Connect or Disconnect your device.

Controls: Turn the Turbo Mode ON or OFF, make a Zero to remove the thermal offset, start the Acquisition of the data and start the calculations of the Statistics associated with this data.

Startup Config: Save your measurements settings or Load the settings associated with an already existing file.

Help: Get information about the PC-Gentec-EO software and read the user manual.

Measure: Configure the parameters related to your measurements.

Display: Set the desired number of digits and settings associated with the selected display.

Acquisition: Enter the parameters related to the acquisition of data.
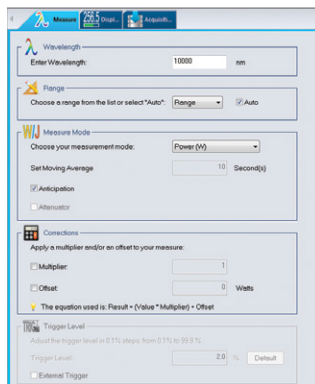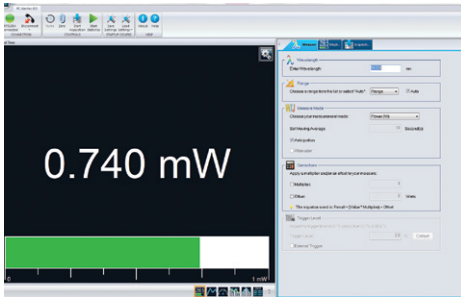
MEASUREMENT PARAMETERS

The Measure tab allows you to configure the parameters related to your measurements:

Wavelength: Enter the Wavelength of your laser and the software will apply the appropriate correction factor on the measurements.

Range: Set the power or energy Range to a fixed scale or let the software automatically adjust the scale.

Measure Mode: Select the type of Measurement that will be displayed (power, energy) and let the software know if you want Anticipation and if there is any Attenuation.

Corrections: Apply a Multiplication Factor and/or an Offset to your measurements.

Trigger Level: Set the Trigger Level in 0.1% steps, from 0.1% to 99.9% (in energy mode only).

MULTIPLE DISPLAYS

Select the display that suits you best and watch your measurements in real time! With the options toolbar in the bottom of the interface, you can manage the displays at your convenience:
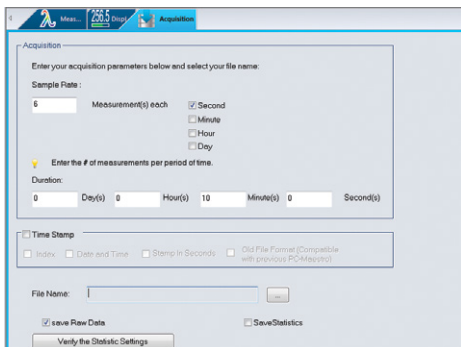

Real Time   Scope   Needle

Averaging   Histogram   Statistics
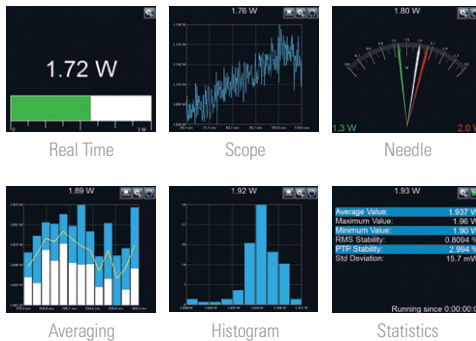
Real Time: Real time value and corresponding bar graph

Scope: Line filling graph

Needle: Fast analog-like needle

Averaging: Shows trend of laser over time

Histogram: Displays up to 100 bars

Statistics: Min, Max, Average, RMS and PTP Stability, Rep. Rate and Standard Deviation

DATA ACQUISITION

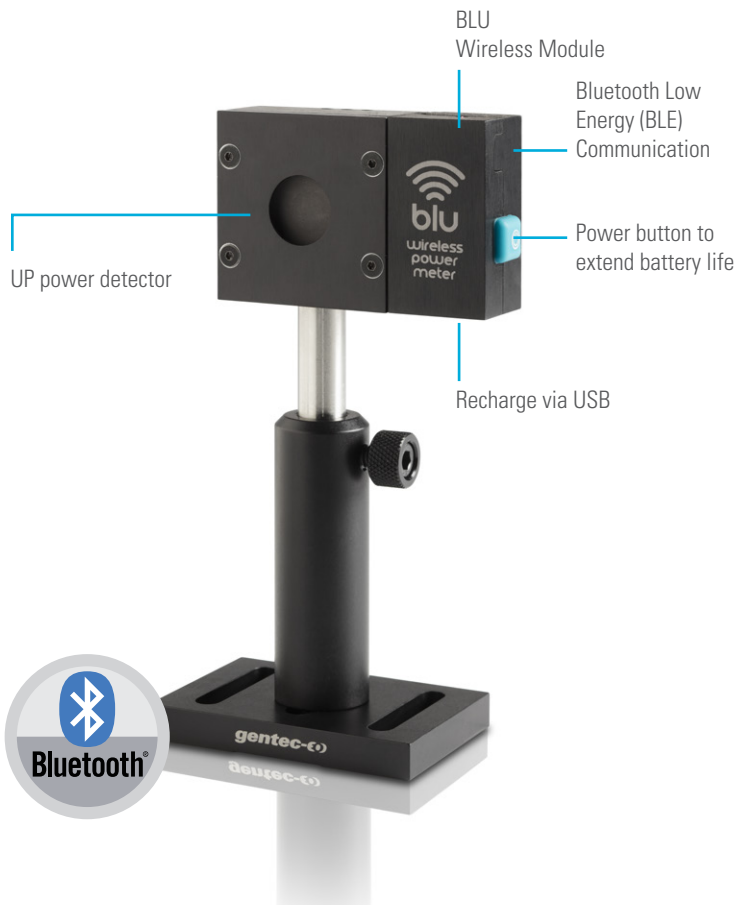The Acquisition tab allows you to enter the parameters for data acquisition:

Power Mode: Choose a Sampling Rate (number of measurements per interval of time), a Total Duration (in days, hours, minutes and seconds) for the data acquisition, a Time Stamp for each value and the File Name and File Location. You can choose to save only the raw data and/or the statistics associated with your data acquisition.

Energy Mode: Choose a sampling rate (1 pulse out of X pulses), a total duration (total number of pulses) for the acquisition of data, a timestamp for each value, the file name and file location. Decide if you want to save raw data and/or the statistics associated with this data.

MONITORS

ENERGY DETECTORS

POWER DETECTORS

HIGH POWER SOLUTIONS

PHOTO DETECTORS

THZ DETECTORS

OEM DETECTORS

SPECIAL PRODUCTS

BEAM DIAGNOSTICS

BLU

Wireless Bluetooth® Monitor

NEW

BLU
Wireless Module

Bluetooth Low
Energy (BLE)
Communication

UP power detector

Power button to
extend battery life

Recharge via USB

Bluetooth®

WATCH OUT FOR THIS LOGO!

AVAILABLE
WITH

blu
wireless power meter

KEY FEATURES

1. **ALL-IN-ONE DETECTOR + METER**
   This new line of All-in-One detectors combine a detector and a meter with Bluetooth connectivity in one convenient product. No need to carry a meter!

2. **SAVE 50% ON CALIBRATION COSTS**
   One product = one calibration. Reduce your recalibration costs by half!

3. **CROSS-PLATFORM SOFTWARE**
   Display the results on your mobile device with the Gentec-EO BLU app available FREE on Google Play and Apple Store. Need to use it with a PC? Simply plug in the included Bluetooth receptor and use PC-Gentec-EO.

4. **EXTENSIVE COVERAGE**
   Receive data at up to 30m from the detector, with the same performance as the usual detector + monitor combination.

5. **EASY TO SET UP**
   Perfect for field service, labs and OEM applications.

6. **GO WIRELESS**
   No need to worry about cable length or monitor location.

7. **LONG BATTERY LIFE**
   The USB-rechargeable Li-ion battery lasts up to 5 continuous days with the device running
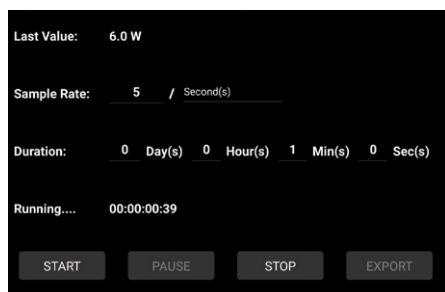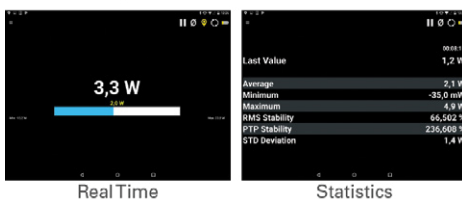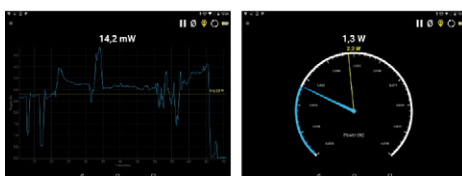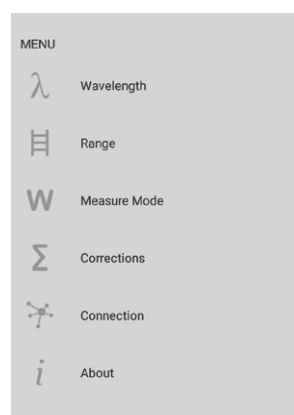
MEASURE WITH YOUR SMARTPHONE, TABLET OR PC

13.0 mW

6.47 mW

-31,4 mW

-24,4 mW

-22,8 mW

SEE ALSO

POWER DETECTORS   **66**

BLU

MONITORS

ENERGY DETECTORS

POWER DETECTORS

HIGH POWER SOLUTIONS

PHOTO DETECTORS

THZ DETECTORS

OEM DETECTORS

SPECIAL PRODUCTS

BEAM DIAGNOSTICS

FREE SOFTWARE FOR **SMARTPHONES** AND **TABLETS**
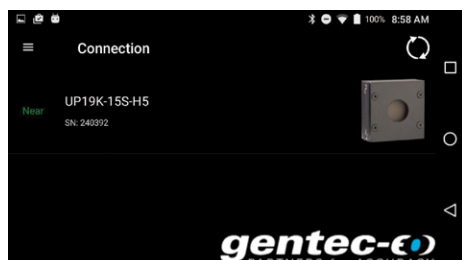
MAIN CONTROLS

Connecting a BLU device is very simple in the mobile application. Just open the app and it will automatically search for all available devices. Then, tap on the desired device in the list.

If there are no devices within range, the app will propose a simulator.

When a BLU detector is connected to a phone or computer, no other device can communicate with it.

MEASUREMENT PARAMETERS

The Menu tab, available with the ☰ icon or by swiping from the left of the screen, allows you to configure the parameters related to your measurements:

Wavelength: Enter the Wavelength of your laser and the software will apply the appropriate correction factor on the measurements.

Range: Set the power or energy Range to a fixed scale or let the software automatically adjust the scale.

Measure Mode: Select the type of Measurement that will be displayed: Power, in Watts (default) or Single Shot Energy, in Joules (Energy/Calorimeter mode).

Corrections: Apply a Multiplication Factor and/or an Offset to your measurements.

Trigger Level: Set the Trigger Level in 0.1% steps, from 0.1% to 99.9% (in Energy mode only).

Connection: Use this option to see the list of BLU devices within range.

MULTIPLE DISPLAYS

Select the display that suits you best and watch your measurements in real time! Simply swipe the screen to switch between the various displays:

Scope: Line filling graph; grab screenshots to save & share easily with your device

Needle: Fast analog-like needle

Real Time: Real time value and corresponding bar graph

Statistics: Min, Max, Average, RMS and PTP Stability and Standard Deviation

DATA ACQUISITION

The Acquisition screen allows you to enter the parameters for data acquisition:

Power Mode: Choose a sample rate (number of measurements per interval of time) and a duration (in days, hours, minutes and seconds) for the data acquisition.

Energy Mode: Choose a sampling rate (1 pulse out of X pulses) and a duration (total number of pulses) for the acquisition of data.

Once the acquisition is complete, you can export the data to any of the data-sharing apps installed on your mobile device, or send it by email