USER MANUAL

Pronto-Si | Pocket-Size 800 mW Power Probe

gentec-eo
PARTNERS for ACCURACY

121-203115

WARRANTY

First Year Warranty

The Gentec-EO thermal power detectors carry a one-year warranty (from date of shipment) against material and/or workmanship defects when used under normal operating conditions. The warranty does not cover recalibration, or damages related to misuse.

Gentec-EO will repair or replace at our option any Pronto which proves to be defective during the warranty period; except in the case of product misuse.

Any unauthorized alteration or repair of the product is also not covered by the warranty.

The manufacturer is not liable for consequential damages of any kind.

In the case of a malfunction, contact your local Gentec-EO distributor or the nearest Gentec-EO office to obtain a return authorization number. Return the material to the appropriate address below.

Contacting Gentec Electro-Optics Inc.

To help us answer your calls more efficiently please have the model number of the detector you are using ready before calling Customer Support.

Gentec Electro-Optics, Inc.
445, St-Jean-Baptiste, Suite 160
Québec, QC
Canada, G2E 5N7

Tel: (418) 651-8003
Fax: (418) 651-1174
E-mail: service@gentec-eo.com
Website: gentec-eo.com

Lifetime Warranty

Gentec-EO will guarantee any Pronto detector for its lifetime, as long as it has been returned for recalibration annually, from the shipment date. This warranty includes parts and labor for all routine repairs including normal wear under normal operating conditions.

Gentec-EO will inspect and repair the detector during the annual recalibration. Repairs at other times will be at Gentec-EO's option.

The cost of annual recalibration, or consequential damages from using the detector, is not included.

The only condition is that the detector must not have been subject to unauthorized service or damaged by misuse. Misuse would include, but is not limited to: laser exposure outside Gentec-EO's published specifications, physical damage due to improper handling, and exposure to hostile environments. Hostile environments would include, but are not limited to: excessive temperature, vibration, humidity, or surface contaminants; exposure to flame, solvents or water; and connection to improper electrical voltage.

SAFETY INFORMATION

Do not use the Pronto-si if the device or the detector looks damaged, or if you suspect that the Pronto-si is not operating properly.

Appropriate installation must be done for water-cooled and fan-cooled detectors. Refer to the specific instructions for more information. Wait a few minutes before handling the detectors after power is applied. Surfaces of the detectors get very hot and there is a risk of injury if they are not allowed to cool down.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Caution: Changes or modifications not expressly approved in writing by Gentec-EO Inc. may void the user's authority to operate this equipment.

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1. PRONTO-SI HANDHELD LASER PROBE

1.1. INTRODUCTION

The Pronto-Si laser probe is designed to be used at low average power densities. It can measure between 20 pW and 800 mW (at 1064 nm).

The Pronto-Si can be supplied with an optional stand and/or power supply.

Call your nearest Gentec-EO distributor to repair and/or to recalibrate a Pronto-Si. To find the nearest Gentec-EO office or distributor in your country, refer to p. *II*, **Contacting Gentec Electro-Optics Inc.**

1.2. WARNINGS AND DISCLAIMER

In no event shall Gentec-EO or any of its affiliates be liable for any indirect, special, incidental or consequential injury to persons or damage to property caused by the use of any of our products, by purchasing from Gentec-EO or any of its affiliates, you hereby indicate that you understand and agree to the following :

Disclaimer

I am fully responsible for the safe application and use of this detector and agreed to such by completing the sales process.

I will not use a laser device without wearing approved laser safety goggles designed for such purpose.

I am aware and responsible of safely dealing with any back reflections.

I will not use the detector in violation of any local, state or federal law, and I understand that it is my responsibility to know and abide by those laws relating to the ownership and use of the detector in my jurisdiction.

1.3. SPECIFICATIONS

The following specifications are based on a one-year calibration cycle, an operating temperature of 15 to 28ºC (59 to 82ºF) and a relative humidity not exceeding 80%. Monitors must be stored in an environment between 10ºC to 60ºC (50 to 140ºF) and a relative humidity not exceeding 90%.

	Pronto-Si	
Interface	Touch Screen	
Display	Color LCD 28 X 35 mm (128 x 160 pixels)	
Measurement Controls	Zero Offset, Wavelength Selection and Reset Data	
Data Acquisition and Transfer	On/Off Controls Maximum of 50 000 Measurements	
Screen Personalization	4 screen orientations and 4 brightness levels	
Saved Settings	Screen Orientation Screen Brightness Wavelength	
Effective Aperture	10 x 10 mm	
Calibrated Spectral Range	Attenuator OFF: 320 – 1100 nm	Attenuator ON: 400 – 1100 nm
Power Noise Level	20 pW @ 1064nm	
Response Time (10 - 90 %)	0.2 sec	
Typical Sensitivity	0.71 A/W @ 980 nm 0.33 A/W @ 1064 nm	
ADC	24 bit, 6.8 Hz bandwidth	
Calibration Uncertainty	Attenuator OFF 320-399 nm ±6.0% 400-449 nm ±2.0% 450-940 nm ±1.5% 941-980 nm ±2.0% 981-1049 nm ±5.0% 1050-1100 nm ±7.0%	Attenuator ON: 400-980 nm ±4.0% 981-1049 nm ±5.0% 1050-1100 nm ±7.0%
Linearity with Power	± 2 %	
Repeatability (Precision)	± 0.5 %	
Power Resolution	1 pW	
Maximum Power at 980 nm	Attenuator OFF: 40 mW	Attenuator ON: 400 mW
Maximum Power at 1064 nm	Attenuator OFF: 80 mW	Attenuator ON: 800 mW
Maximum Average Power Density	40 mW/cm^2 @ 980 nm 80 mW/cm^2 @ 1064 nm	
Operating Conditions	Ambient temperature : 15-28°C Maximum Relative humidity : 80%	
Damage Threshold	100 W/cm^2	
Absorber	Silicon	
Attenuator	Integrated slide-in OD1 attenuator	
Dimensions **Open** **Closed**	 41.0W x 216.2L x 13.9D mm 41.0W x 136.0L x 21.5D mm	
Weight	155 g	

Battery Type	USB Rechargeable Li-ion
Battery Life (Time before the battery needs to be charged via the USB port)	17 hours (with brightness set at 25%)
Battery Charge Time	7.5 hours (when totally empty)
Mounting Holes (for post)	1 x 8-32

Specifications are subject to change without notice

1.4. MECHANICAL DESCRIPTION

Figure 1 Pronto-Si Mechanics

1 **Sensor**
The laser must be centered on the absorber when making a measurement.

2 **Slide-in Attenuator**
The position of the OD1 integrated filter is known and the measured power is automatically adjusted.

3 **Mounting Hole**
There is an 8-32 mounting hole to fit the device on a post for safer use during the measurements.

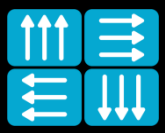
4 **Touch Screen Display and Controls**
The touch screen interface controls the device.

5 **On/Off/Settings Button**
This button is used to turn the device On (press when the device is Off) and Off (press and hold for 3 seconds when the device is On). It is also used to access the Settings menu (press when the device is On).

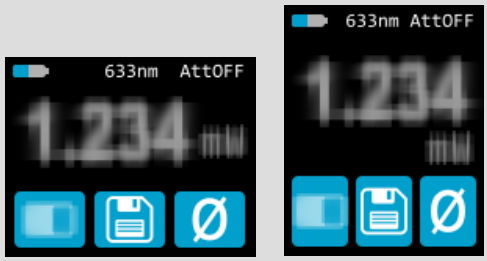
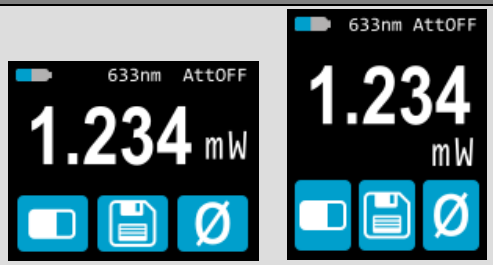
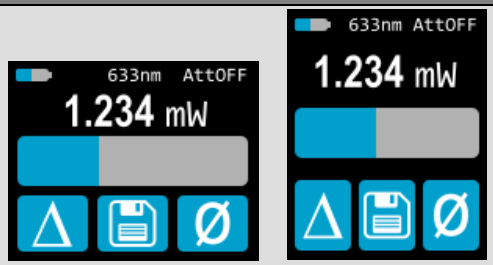
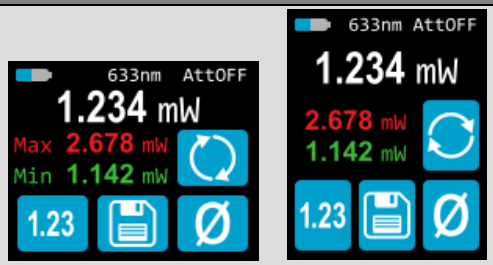
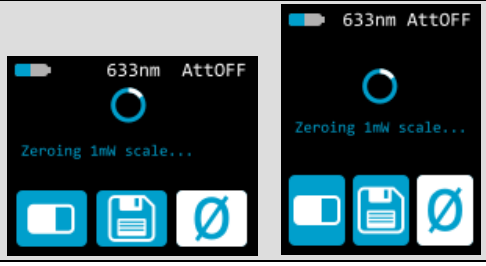
6 **USB Port**
The Mini-B USB2.0 port is used to transfer data from the device to a PC and to charge the battery.

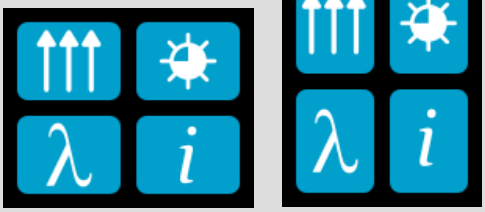
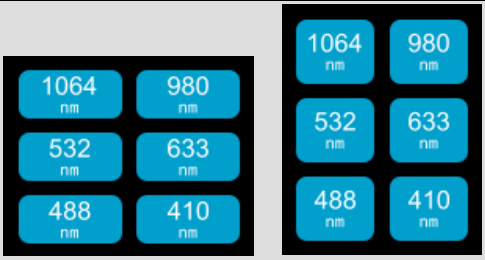
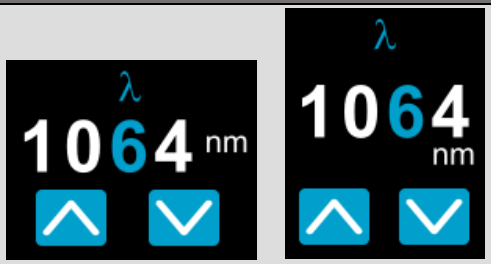
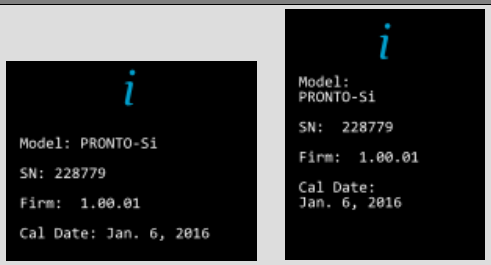
2. USER INTERFACE

2.1. LIST OF ICONS

ICON	NAME	DESCRIPTION
	Battery	Indicates the battery level. If the battery icon is red, recharge immediately. The yellow lightning sign indicates the battery is charging.
	Bar-graph **Min/Max** **Real-time**	Press → switches to **Min/Max mode** Press → switches to **Real-time mode** Press → switches to **Bar-graph mode**
	Wavelength	Press → Opens the **Wavelength menu**
	Data Acquisition	Press → Starts **Data Acquisition** Press and Hold → Erases the saved data Press → Stops **Data Acquisition**
	Reset	Press → Sets the **Min** and **Max** values to the current power
	Up **Down**	Press → Increments the selected units Press → Decrements the selected units
	About	Press → Opens the **About** menu
	**Screen Orientation**	Indicates the **Screen Orientation** (4 options) Press → Toggles to the next orientation
	Brightness	Indicates the screen's **Brightness** level (4 options) Press → Toggles to the next brightness level
	Zero	Press → Calculates and activates the **Zero Offset** for all the ranges Press → Deactivates the **Zero Offset**

2.2. DESCRIPTION OF THE SCREENS

SCREEN	FUNCTIONS
Common features	
	Top row: ▸ Displays the **Battery** indicator, **Wavelength** and **Attenuator On/Off** state. Bottom row: ▸ Left button toggles between the three display modes (Real-time, Bar-graph and Min/Max). ▸ When the **Data Acquisition** button is white, the measured power is logged in the internal memory. ▸ When the **Zero** button is white, the offset is applied to the measured power.
Real-time mode	
	▸ Displays the **Measured Power** in Real Time.
Bar-graph mode	
	▸ Displays the **Measured Power** in Real Time. ▸ Displays a **Bar-graph** of the current scale.
Min/Max mode	
	▸ Displays the **Measured Power** in Real Time. ▸ Displays **Min. Power** (in green) and **Max. Power** (in red) since the last **Reset**.
Zeroing	
	▸ The Pronto is setting the **Zero Offset** for all ranges to ensure the accuracy of the measurements (see 0).

Settings	
	▸ Displays the **Settings** controls and menus. ▸ Automatically saves the **Orientation** (see 3.2.3) and **Brightness** (3.2.4) upon exit.
Wavelength menu	
	▸ Displays the **Wavelength** presets (see 3.2.1)
Set Wavelength	
	▸ Displays the current **Wavelength** ▸ User must press a digit to select it and press the **Up/Down** controls to adjust the wavelength (see 3.2.1). ▸ Automatically saves the new settings upon exit.
About	
	▸ Displays the following information (see 3.2.5): • Model name • Serial number • Firmware • Last calibration date

3. OPERATING INSTRUCTIONS

3.1. TURNING THE DEVICE ON AND OFF

Turn ON: Press the **On/Off/Settings** button

Turn OFF: Press and hold the **On/Off/Settings** button *for 3 seconds*

Tip

The device will automatically turn off after 5 minutes of inactivity, except if data is being acquired. When the device is plugged into a PC via the USB cable, it will turn On and stay On until it is manually turned Off or unplugged.

3.2. CHANGING THE SETTINGS

3.2.1. Changing the WAVELENGTH

Before making a measurement, it is important that you adjust the calibration of the device to the wavelength of the source to be measured. To do so:

1. Press the **On/Off/Settings** button to access the **Settings** menu
2. Press the **Wavelength** button λ to display a list of presets.

Figure 2 The 6 wavelength buttons can be customized by the user

There are 6 presets in the wavelength menu. The values can be set to any wavelength between 320 nm and 1100 nm. To change a value, press it until the screen changes to the **Set Wavelength** menu. Each digit is changed individually by selecting it and pressing the Up/Down arrows. For example, if you want to change 1064 nm to 532 nm, you need to do the following:

1. Select the 1st number. Make sure it turns blue 1064 and use the Down button to reduce it to 0
2. Select the 2nd number. Make sure it turns blue 0064 and use the Up button to increase it to 5
3. Select the 3rd number. Make sure it turns blue 0564 and use the Down button to reduce it to 3
4. Select the 4th number. Make sure it turns blue 0534 and use the Down button to reduce it to 2
5. You're done! 0532

Once the desired value is entered, press the On/Off/Settings button to exit the menu and automatically save your new settings.

3.2.2. Opening and Closing the SETTINGS Menu

When the device is ON, press the **On/Off/Settings** button to access the menu. Pressing the button again will close it and save whatever settings have been changed.

3.2.3. Changing the ORIENTATION of the Screen

There are 4 possible screen orientations: Up, Down, Left and Right. The button displays the current orientation, for example Up: . To change the orientation, simply press the button and the next choice will appear. The changes will be saved once you exit the Settings menu.

3.2.4. Changing the BRIGHTNESS of the Screen

There are 4 possible brightness levels: 100%, 75%, 50% and 25%. The button displays the current brightness, for example 75%: . To change the brightness, simply press the button and the next choice will appear. The changes will be saved once you exit the Settings menu.

3.2.5. Getting Information ABOUT the Device

Relevant information about the device are stored in the **About** menu . These information can be useful when returning the device for repairs or recalibration. These include the model name, serial number, firmware version and the last calibration date.

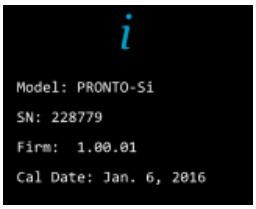


Figure 3 The About menu displays important information about your device

Press the On/Off/Settings button to exit the menu and go back to the measurement screen.

3.3. ZEROING

1. Make sure the attenuator is in the appropriate position for your measurements (the **Zero Offset** must be recalculated when the attenuator changes position).
2. Block off any laser radiation to the detector.
3. To reset the zero, wait until the reading has stabilized. The power read by the device when no laser beam is incident on the sensor may not be exactly zero if the device is not thermally stabilized. Warm-up until the reading without laser power is stable for several minutes. Half an hour warm-up is recommended for measuring low powers precisely.
4. Press the zero button. The devices passes through all the scales to determine the compensation to null each one. When the process is complete, the device returns to the measurement screen and you are now ready to make an accurate measurement.

When the Offset is applied to the measurement, the Zero button is white . The offset stays active until the Zero button is pressed again or until the Pronto-Si is turned off.

3.4. MAKING A MEASUREMENT

Once all the settings are adjusted, you are ready to make a measurement. Just follow the step-by-step instructions below.

1. Turn the device ON.
2. Select the wavelength closest to the laser light you want to measure (see Section 3.2.1).
3. For maximum accuracy, adjust the reading to zero before making measurements (see Section 0). For low energy measurements, the sensor must be protected from ambient light and ideally used in the dark.
4. Place the device in the laser beam path. The entire laser beam must be within the aperture of the sensor. Do not exceed maximum specified densities, energies or power. For the most accurate measurement, spread the beam across 90% of the area.
5. The device will automatically display the power value.

3.5. ACQUIRING, TRANSFERRING AND DELETING DATA

3.5.1. Acquiring Data

You can store the measurements done by the device simply by pressing the **Save** button . When pressed, the button turns white to indicate that the data is being stored in the internal memory of the device. Once activated, the data acquisition will stay active until stopped, even if the device is turned Off and On. To stop the data acquisition, press the **Save** button again and it will revert to its original state .

Warning

When acquiring data, the Pronto-Si does not automatically shut down, even if the head is flipped closed.

3.5.2. Transferring Data

To retrieve the data, you must connect the Pronto-Si to your computer with a USB cable and use the **ProntoDataTransfer** software . You can download our latest version of the software in the *Downloads* section of our website (https://gentec-eo.com/downloads). The data will be uploaded on your computer in a text format, which you can save to a known location on your computer and then open in your preferred analysis software.

Warning

Once the data has been transferred to a computer, it is deleted from the internal memory of the device.

Figure 4 Transferring measurements acquired with a Pronto-Si to a computer

Complete installation and data transfer instructions can be found in **Appendix B: Installing the ProntoDataTransfer Software.**

3.5.3. Deleting the data

To delete the data from the internal memory, you must hold the **Save** button approximatively 3 seconds. A text will appear and ask “**Erase all data?”**. Press the **YES** button, then click **OK**.

4. SAFETY INSTRUCTIONS

4.1. GENERAL

To ensure a long lifetime of accurate measurements, the Pronto-Si power probe should be maintained within the following ambient conditions:

Storage environment temperature: 10 to 40°C, RH < 70%
Operating environment temperature: 15 to 28ºC, RH < 70%.

It is possible to store and operate your Pronto-Si power probe beyond this range. For any specific requirements, please contact your local Gentec-EO representative.

Photodiode are sensitive to temperature and more specifically for longer wavelength. It is the best to keep the temperature in the range of 22°C to 25°C, close to the calibration temperature.

4.2. DAMAGE TO THE OPTICAL ABSORBER MATERIAL

Damage to the optical absorber material is usually caused by exceeding the manufacturer's specified maximum incident **Average Power Density.** Refer to the specifications table.

The beam diameter should always be as large as possible to avoid damaging the sensor. **We recommend using a beam size diameter that covers 70% to 80% of the sensor's aperture**. For the Pronto-Si, this corresponds to a diameter of 7-8 mm.

In any case, the beam's incident area should not be less than 10% of the detector's area. Please contact Gentec-EO to make measurements with smaller beams.

4.3. HOW TO PROPERLY HANDLE THE DEVICE

In addition to the standard safety precautions that should be taken when working with laser radiation, we recommend placing the device on an optical stand when making a measurement. For this use, the device is equipped with 1 mounting hole with an 8-32 thread (see Figure 1 Pronto-Si Mechanics
).

Figure 5 Recommended setup when making a measurement.
Install the device on an optical stand before placing it in the laser beam path.

Gentec-EO offers a compatible stand for the Pronto-Si, you can contact your local Gentec-EO representative for the exact model.

It is also possible to place the Pronto-Si on a horizontal surface and illuminate the sensor from above. The back of the device is flat so it will stay stable when placed on a horizontal surface.

5. SOURCES OF ERROR

The Pronto-Si is NIST traceable. Several sources of error may affect your measurements.

5.1. ZERO OFFSET

Zero the offset before any measurement as described in Section 0 above, otherwise all measurements will include a component not related to the laser power. This will add a systematic error to absolute power measurements. This error may disappear from relative power measurements. When you subtract two measurements made under identical conditions, the offset in the second measurement cancels the offset in the first if they are identical. We recommend zeroing the offset for all measurements to eliminate any drift that occurs between measurements.

5.2. OFFSET DRIFT DUE TO TEMPERATURE

The photodiode shunt resistor is sensitive to temperature, which affects the offset value. The sensitivity of the photodiode also has temperature dependence. See Figure 6 for the typical temperature sensitivity dependence over the spectral range of this photodiode.

Tip

When making measurements at very low power levels, allow your system to warm up for 30 minutes or until the offset power is stable for several minutes.

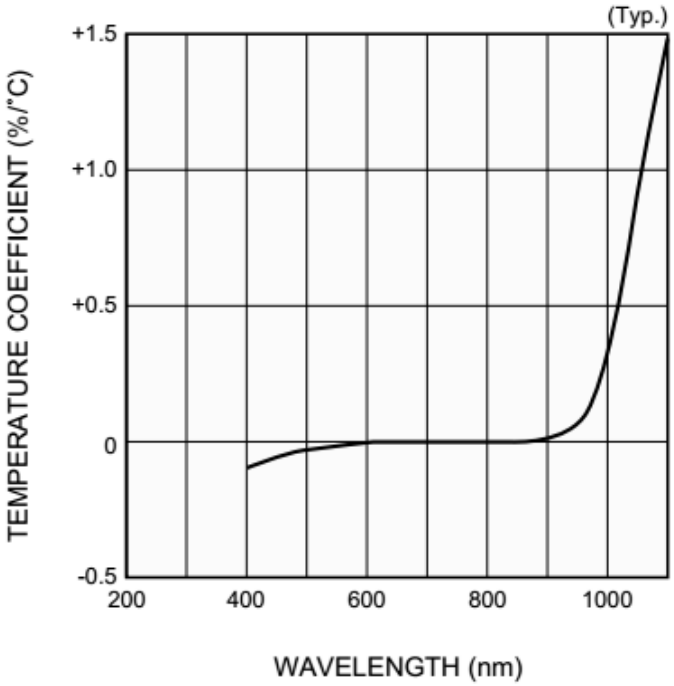


Figure 6 Typical photosensitivity temperature characteristic
The offset drift due to temperature is most important in the near infrared.

5.3. WAVELENGTH

The photodiode response varies with wavelength, as illustrated in **Figure 7**.

Warning

Using the wrong wavelength setting will result in incorrect power readings

For example, a red He-Ne laser generates a 20 mW beam at a wavelength of 633 nm. The photodiode's sensitivity at that wavelength is approximately 0.445 A/W, so the Pronto-Si will receive a signal of 20 mW x 0.445 A/W = 8.9 mA. If the user has set his Pronto-Si to a wavelength of 800 nm, the instrument assumes a sensitivity of 0.60 A/W and the measured power is wrong: 8.9 mA / 0.60 A/W = 14.8 mW.

You may select your wavelength with the **Wavelength** menu of the device, as described in Section 3.2.1.

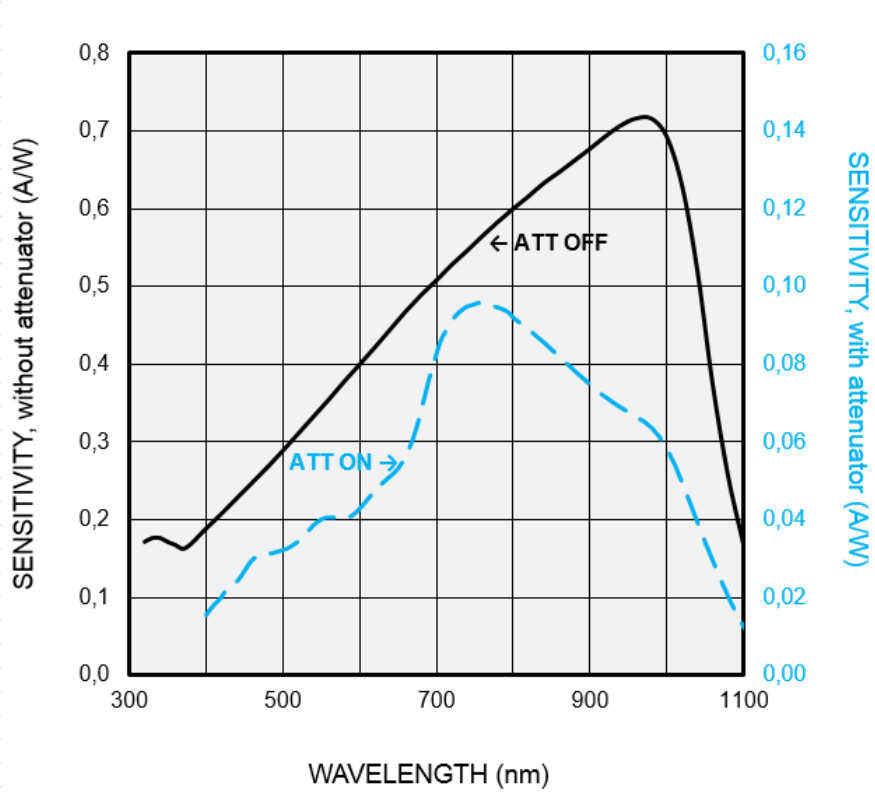


Figure 7 Typical Pronto-Si sensitivity vs wavelength.
The photodiode's sensitivity is highest around 960 nm

5.4. MAXIMUM POWER

To obtain precise power readings, the photodiode current is amplified by the Pronto electronics. However, this amplification saturates at high current values, regardless of the laser power density.

Warning

Measuring a laser beam with power exceeding the maximum values stated here will result in incorrect power readings, even when the damage threshold is not reached.

Since the current generated by the photodiode varies with the wavelength (see Section 5.3), the maximum power also varies. When you add an attenuator to the photodiode, the photocurrent diminishes and higher powers can be measured. The attenuation factor is not constant along the light spectrum. Both curves for the maximum power with and without the attenuator are shown below.

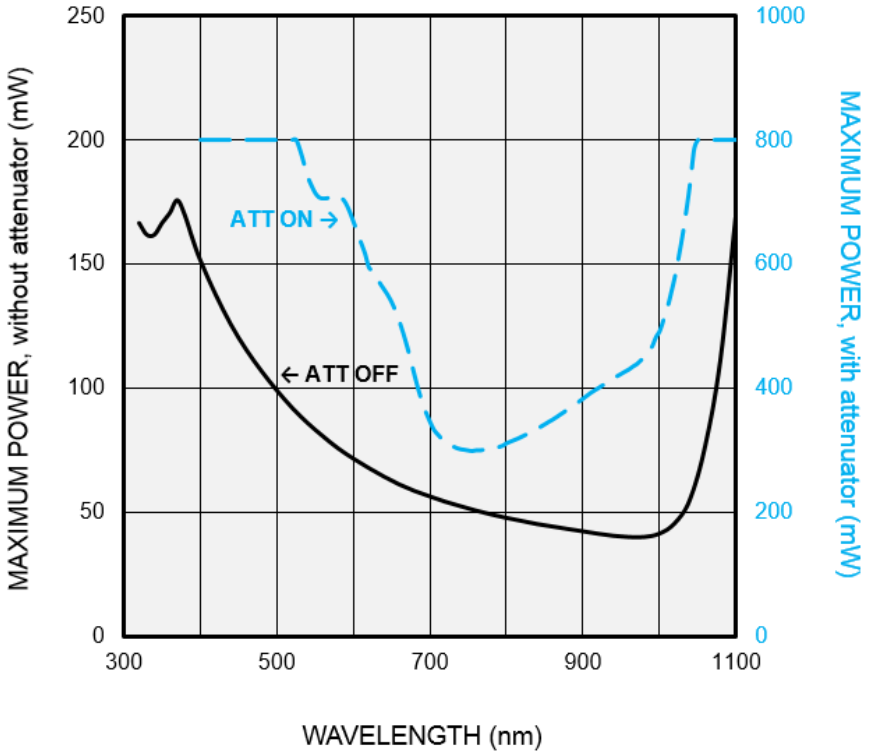


Figure 8 Pronto-Si maximum power vs wavelength.
The maximum power is lowest when the photodiode sensitivity is highest

Tip

When making measurements close to the maximum power without attenuator, slide on the attenuator to avoid saturated measurements.

6. MAINTENANCE

6.1. FREE FIRMWARE UPGRADE

As new and improved versions of the device's firmware are created, it is in your best interest to update your Pronto-Si. The latest device firmware can be downloaded from the Gentec-EO website at https://gentec-eo.com/downloads. Go to the **Downloads** section. Find the file that corresponds to your Pronto-Si and follow our simple, easy to use instructions.

7. ACCESSORIES

7.1. THREADED ADAPTOR

Gentec-EO offers a SM1 threaded adaptor that can be used with other Gentec-EO SM1-threaded accessories like ND filters for an extra attenuation or an FC adaptor for output optical fiber (shown by figure 9). Used with the FC fiber adaptor, the distance between the fiber output and the sensor is 3.5 ± 0.5 mm. The threaded adaptor is fixed over the sensor with two 4-40 set screw. There is a line drawn on the adaptor to help to align the adaptor with the sensor. Once the adaptor is at the desired position, tighten the set-screws with a 0.050'' hexagonal key.

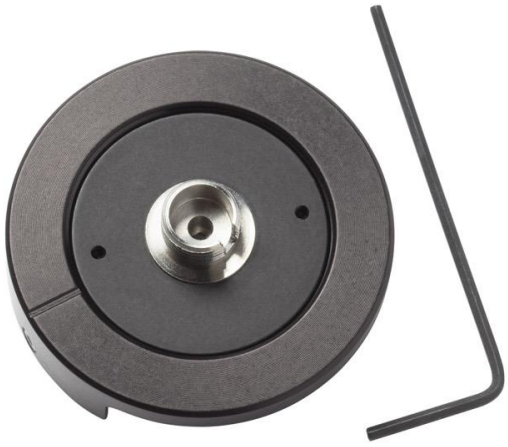


Figure 9 Threaded adaptor for Pronto-Si (203502) with FC adaptor for optical fiber (202367).

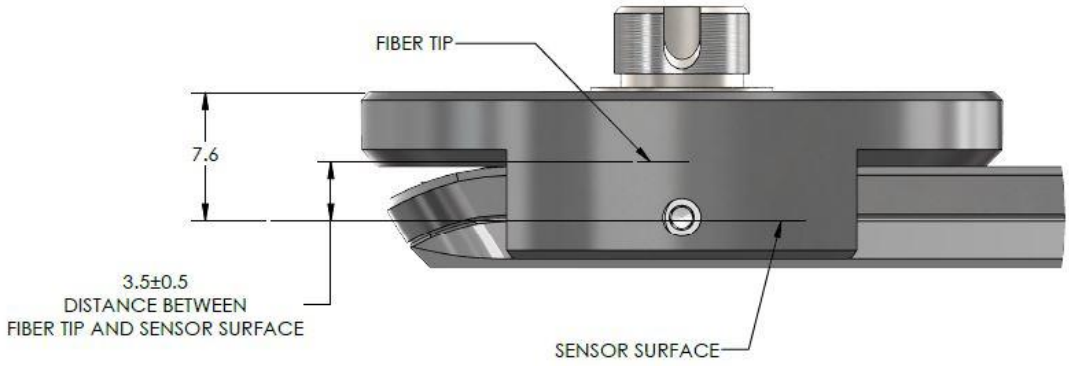


Figure 10 Distance between sensor surface and optical fiber

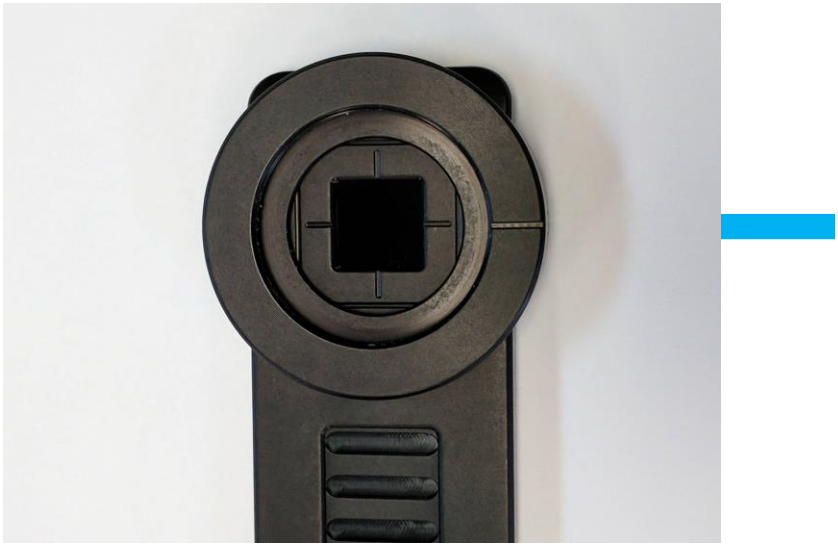


Figure 11 To align the adaptor with the sensor,
use the line drawn near the sensor and the one drawn on the adaptor.

Warning

When the threaded adaptor is on the Pronto-Si, ***Do not close it*** to avoid any damage to the LCD's screen.

Figure 12 Flipping the Pronto-Si closed when the FC adaptor is attached will damage the touch screen.

.

Tip

For an optimal storage you can put the threaded adaptor on the other side of the Pronto-Si. This way the touch screen will not be damaged. See figure 12.

Figure 13 Proper way to store a Pronto-Si with the threaded adaptor.

DECLARATION OF CONFORMITY

Application of Council Directive(s):	2014/30/EU The EMC Directive
Manufacturer's Name:	Gentec Electro Optics, Inc.
Manufacturer's Address:	445 St-Jean Baptiste, suite 160 (Québec), Canada G2E 5N7
European Representative Name:	Laser Components S.A.S.
Representative's Address:	45 bis Route des Gardes 92190 Meudon (France)
Type of Equipment:	Optical Power Monitor
Model No.:	Pronto Series
Year of test & manufacture:	2015

Standard(s) to which Conformity is declared:

Emissions:

Product Standard	Test Standard	Description
EN 61326-1_Ed2:2013 (IEC 61326-1_Ed2:2012)	CISPR 11:+A1:2010 Class A	Radiated Emissions
EN 61326-1_Ed2:2013 (IEC 61326-1_Ed2:2012)	Radiated Emissions FCC part 15 2013) subpart B	Radiated Emissions

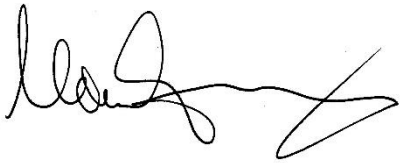
Immunity:

Product Standard	Test Standard	Description	Performance Criteria
EN 61326-1_Ed2:2013 (IEC 61326-1_Ed2:2012)	IEC61000-4-2:2008Ed.2	Electrostatic Discharge Immunity	Criteria B
EN 61326-1_Ed2:2013 (IEC 61326-1_Ed2:2012)	IEC61000-4-3:2006 +A1:2007+A2:2010	RF Conducted Immunity	Criteria A

I, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s) and Standard(s).

Place: Québec (Québec)

Date : 15 July, 2015



APPENDIX A: WEEE DIRECTIVE

Recycling and separation procedure for WEEE directive 2002/96/EC

This section is used by the recycling center when the detector reaches the end of its life. Removing the insulation or troubling the inside of the monitor will void the detector warranty.

The complete Detector contains:

1 Detector
1 Cable
1 Calibration certificate

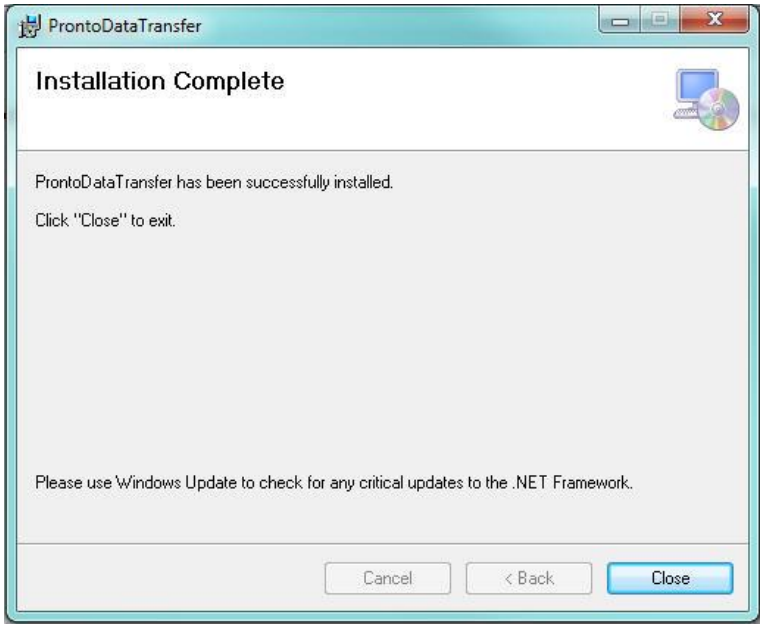
Separation

Paper: Certificate
Printed Circuit Board: Inside the detector
Aluminum: Detector casing
Plastic: Parts inside the detector
Li-ion cell: Battery

APPENDIX B: INSTALLING THE PRONTODATATRANSFER SOFTWARE

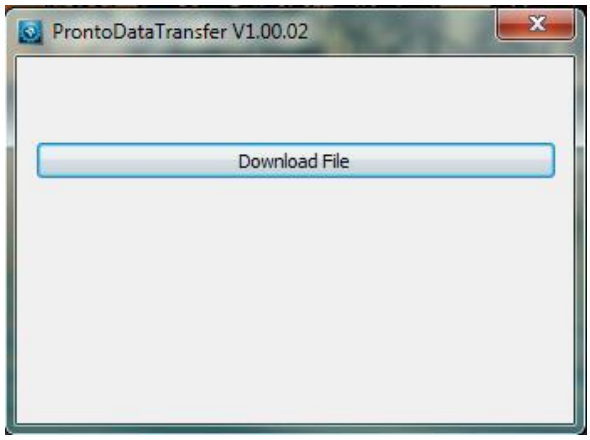
1. Download and install the driver from our website.
2. Download the software file from our website.
3. Double-click the EXE file to start the installer.

4. Choose the folder for the installation and click Next until the installation is complete. Then click Close.

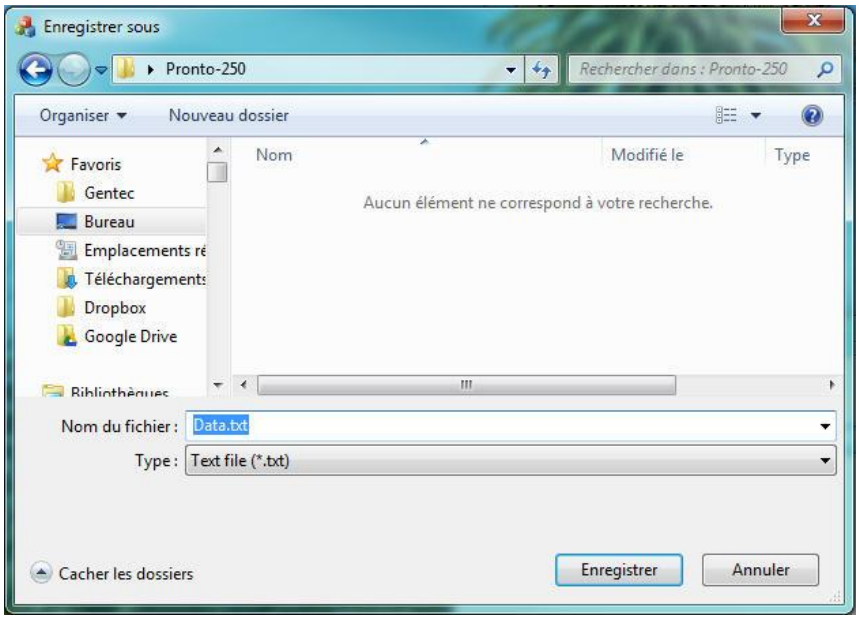


5. Once the software is installed, locate it on your computer and start the program by clicking the ProntoDataTransfer icon .

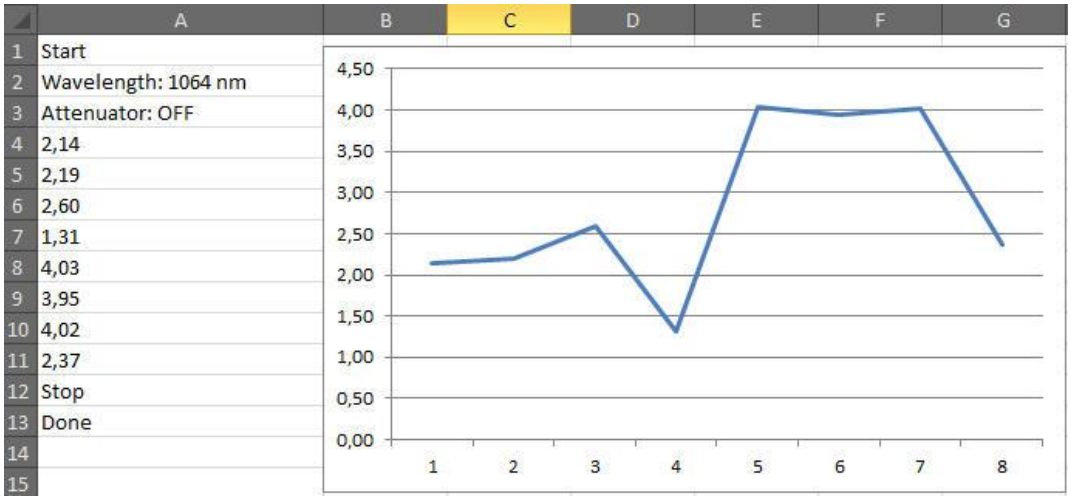
6. A download window appears with a **Download File** button.



7. Click the **Download File** button and select a known folder on your computer where you will save the data. Don't forget to also enter a file name. The file format is TXT.



8. You can now open and analyze the data in your preferred data analysis software.



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