PRONTO

0.5 W - 250 W power probes with touchscreen controls
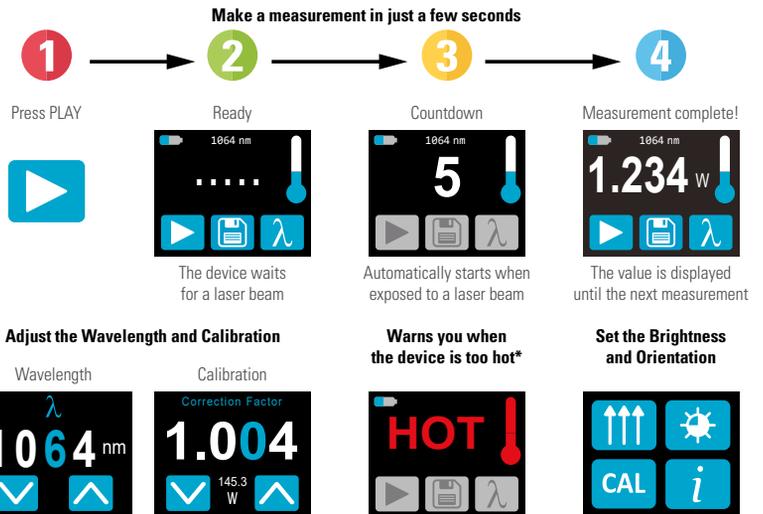
Patterned Surface for
Enhanced Cooling

Rubber Band for a Better
Stability on a Flat Surface

High Damage Threshold
Broadband Absorber

Rechargeable
Li-ion Battery

8-32 Mounting
Holes for Post

USB Connector for:
- Battery Charging
- Data Transfer to PC
- Internet Upgrades

Color LCD Display with
Touch Screen Controls

Rugged Casing
Compact Size

On/Off
and Main Menu

USER INTERFACES (SSP MODE)

Make a measurement in just a few seconds

1 Press PLAY

2 Ready

1064 nm

The device waits
for a laser beam

3 Countdown

1064 nm

5

Automatically starts when
exposed to a laser beam

4 Measurement complete!

1064 nm

1.234 W

The value is displayed
until the next measurement

Adjust the Wavelength and Calibration

Wavelength

λ

1064 nm

Calibration

Correction Factor

1.004

145.3 W

**Warns you when
the device is too hot***

HOT

**Set the Brightness
and Orientation**

CAL i

* Device may get hot, it is not recommended for handheld use when making a measurement

KEY FEATURES

> **POCKET-SIZE**
> This mid to high power laser probe is so compact it fits in your pocket!

> **EASY TO USE**
> The color LCD touchscreen allows for a friendly user interface. You can make a measurement with just the touch of a button!

> **DATA LOGGING**
> Save your data to the internal memory and then transfer them to your PC over the USB connection.

> **FROM LOW TO HIGH POWERS**
> Thanks to a low noise level and high damage threshold, the PRONTO can measure powers from 0.5 W to 250 W.

> **YAG AND CO$_2$ CALIBRATIONS**
> The PRONTO-250 comes fully calibrated: every wavelength between 248 nm and 2.5 μm (YAG), and a real calibration at 10.6 μm (CO$_2$).
>
> The PRONTO-250-PLUS has an additional calibration for Single-Shot Energy measurements.

> **HANDS-FREE OPERATION**
> Place it on a flat surface or use one of the 2 threaded holes for safe use with optical stands.

> **SERIAL COMMANDS**
> Serial commands are available to let you take full control of your PRONTO from your PC.

3 MODELS FOR ALL YOUR MEASUREMENT NEEDS

> **PRONTO-250**
> PRONTO-250 is very easy to use and will give you accurate one shot measurements, thanks to its unique measurement mode:
> - Single shot power (SSP): up to 250 W

> **PRONTO-250-PLUS**
> PRONTO-250-PLUS comes with 3 measurement modes and can be used in a variety of applications:
> - Single shot power (SSP): up to 250 W
> - Continuous power (CWP): up to 8 W
> - Single shot energy (SSE): up to 25 J

> **PRONTO-50-W5**
> This model has our proprietary absorber with extremely high damage thresholds to handle tightly focused beams without damaging the absorber.
> - Single shot power (SSP): up to 50 W

CONNECTIVITY

HANDS-FREE

DATA TRANSFER TO PC

PRONTO
Specifications

CE | NIST* Traceable | WEEE/RoHS COMPLIANT

*Also traceable to NRC-CNRC

	PRONTO-250	PRONTO-250-PLUS			PRONTO-50-W5
		SSP Mode Measures in 5 s	CWP Mode Measures power continuously	SSE Mode Measures in less than 0.5 s	
MAX AVERAGE POWER/ENERGY	250 W	250 W	8 W	25 J (up to 150 J for pulses >1 ms)	50 W
EFFECTIVE APERTURE	19 mm Ø	19 mm Ø			19 mm Ø
INTERFACE	Touchscreen color LCD display	Touchscreen color LCD display			Touchscreen color LCD display
MEASUREMENT CAPABILITY					
Spectral range	0.19 - 20 µm	0.19 - 20 µm			0.19 - 10 µm
Calibrated spectral range	0.248 - 2.5 µm and 10.6 µm	0.248 - 2.5 µm and 10.6 µm			0.248 - 2.5 µm
Noise equivalent power/energy	10 mW	10 mW	10 mW	60 mJ	4 mW
Minimum measurable power/energy	0.5 W	0.5 W	0.2 W	N/A	0.5 W
Exposure time	5 s	5 s	1.5 s response time	0.26 s	5 s
Measurement accuracy	± 3%	± 3%	± 2.5%	± 5%	± 3%
Min repetition period (Max pulse width)	N/A	N/A	N/A	4 s (88 ms)	N/A
Display resolution	1 mW	1 mW	1 mW	10 mJ	1 mW
DAMAGE THRESHOLDS					
Maximum average power density [a]	45 kW/cm² (at 1064 nm, 10 W, CW) 14 kW/cm² (at 10.6 µm, 10 W, CW)	45 kW/cm² (at 1064 nm, 10 W, CW) 14 kW/cm² (at 10.6 µm, 10 W, CW)			100 kW/cm² (at 1064 nm, 10 W, CW)
Maximum exposure time [b]	6 s	6 s	N/A	N/A	6 s
Maximum device temperature [b]	65°C	65°C	40°C	40°C	65°C
USER INTERFACE					
Measurement controls	Wavelength selection and user calibration	Wavelength selection and user calibration			Wavelength selection and user calibration
Measurement modes	Single Shot Power (SSP)	Single Shot Power (SSP), Continuous Power (CWP) and Single Shot Energy (SSE)			Single Shot Power (SSP)
Data acquisition and transfer	Yes	Yes			Yes
GENERAL SPECIFICATIONS					
Display type	Touchscreen color LCD	Touchscreen color LCD			Touchscreen color LCD
Display size	28.0 x 35.0 mm (128 x 160 pixels)	28.0 x 35.0 mm (128 x 160 pixels)			28.0 x 35.0 mm (128 x 160 pixels)
Data storage	50 000 pts	50 000 pts			50 000 pts
Battery type	Rechargeable Li-ion	Rechargeable Li-ion			Rechargeable Li-ion
Battery life	17 hours or 4 200 measurements (with brightness set at 25%)	17 hours or 4 200 measurements (with brightness set at 25%)			17 hours or 4 200 measurements (with brightness set at 25%)
Battery recharge via	USB port	USB port			USB port
PHYSICAL CHARACTERISTICS					
Effective aperture	19 mm Ø	19 mm Ø			19 mm Ø
Absorber	H9	H9			W5
Mounting holes (for post)	2 x 8-32	2 x 8-32			2 x 8-32
Dimensions	59.0W x 181.4L x 17.0D	59.0W x 181.4L x 17.0D			59.0W x 181.4L x 17.0D
Weight	210 g	210 g			210 g
ORDERING INFORMATION					
Compatible stand	STAND-S-233	STAND-S-233			STAND-S-233
Product page	[QR code]	[QR code]			[QR code]

a. To get all the damage thresholds, see User Manual.
b. At maximum power.

Specifications are subject to change without notice
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