

PRONTO-250

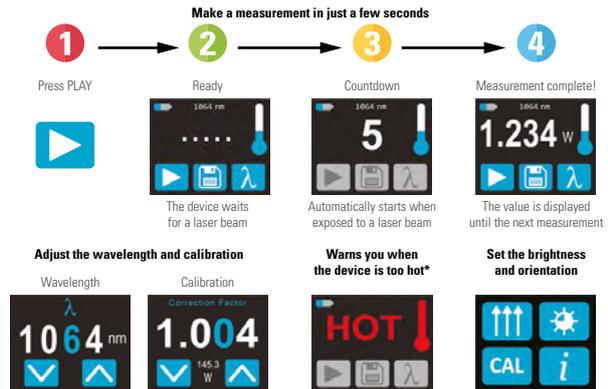
0.5 W - 250 W power probes with touchscreen controls



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.
- **THE FLEXIBILITY TO PICK THE CALIBRATIONS YOU NEED**
The PRONTO-250-FLEX offers three calibration options so you only pay for what you need:
 - Default calibration "Y": for visible to NIR wavelengths (248 nm to 2.5 μm)
 - Additional calibration "C": for CO₂ lasers (10.6 μm)
 - Additional calibration "E": for energy measurements with ± 5 % accuracy
- **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.

USER INTERFACES (SSP MODE)



3 MODELS FOR ALL YOUR MEASUREMENT NEEDS

- **PRONTO-250-EZ**
Adapted to dirty environments, the PRONTO-250-EZ offers the same performance as PRONTO-250-FLEX, with the added advantage that it can be cleaned on-the-go.
 - Perfect for field use
- **PRONTO-250-FLEX**
PRONTO-250-FLEX 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-250

Specifications





 *Also traceable to NRC-CNRC



	PRONTO-250-FLEX & PRONTO-250-EZ		PRONTO-50-W5
	SSP Mode Measures in 5 s	CWP Mode Measures power continuously	SSE Mode Measures single-shot energy
MAX AVERAGE POWER/ENERGY	250 W	8 W	25 J (up to 150 J for pulses >1 ms)
EFFECTIVE APERTURE	19 mm Ø		19 mm Ø
INTERFACE	Touchscreen color LCD display		Touchscreen color LCD display
MEASUREMENT CAPABILITY			
Spectral range	0.19 - 20 µm		0.19 - 10 µm
Calibrated spectral range	0.248 - 2.5 µm (default) 10.6 µm available with calibration option "C"		0.248 - 2.5 µm
Noise equivalent power/energy	10 mW	10 mW	60 mJ
Minimum measurable power/energy	0.5 W	0.2 W	N/A
Exposure time	5 s	1.5 s response time	0.26 s
Measurement accuracy	± 3%	± 2.5%	± 5% with additional calibration "E" Typical value as default
Min repetition period (Max pulse width)	N/A	N/A	4 s (88 ms)
Display resolution	1 mW	1 mW	10 mJ
DAMAGE THRESHOLDS			
Maximum average power density^a	45 kW/cm ² (at 1064 nm, 10 W, CW) 14 kW/cm ² (at 10.6 µm, 10 W, CW)		100 kW/cm ² (at 1064 nm, 10 W, CW)
Maximum exposure time^b	6 s	N/A	N/A
Maximum device temperature^b	65°C	40°C	40°C
USER INTERFACE			
Measurement controls	Wavelength selection and user calibration		Wavelength selection and user calibration
Measurement modes	Single Shot Power (SSP), Continuous Power (CWP) and Single Shot Energy (SSE)		Single Shot Power (SSP)
Data acquisition and transfer	Yes		Yes
GENERAL SPECIFICATIONS			
Display type	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)
Data storage	50 000 pts		50 000 pts
Battery type	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%)
Battery recharge via	USB port		USB port
PHYSICAL CHARACTERISTICS			
Effective aperture	19 mm Ø		19 mm Ø
Absorber	H9 (FLEX) or EZ (easy to clean)		W5
Mounting holes (for post)	2 x 8-32		2 x 8-32
Dimensions	59W x 181.4L x 17D		59W x 181.4L x 17D
Weight	210 g		210 g
ORDERING INFORMATION			
Compatible stand	STAND-S-233		STAND-S-233

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

Specifications are subject to change without notice