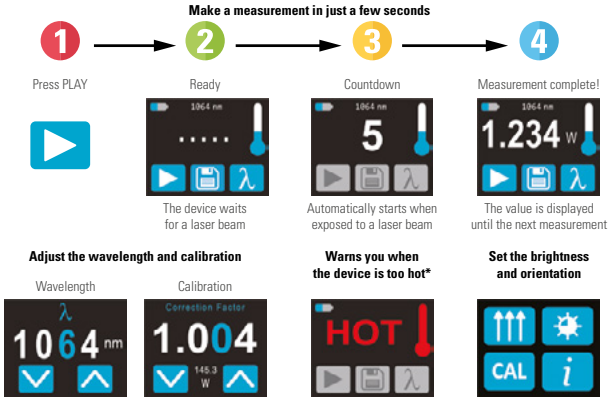
HIGH-POWER PRONTO

1 W - 10 kW high power probes with touchscreen controls

USER INTERFACES (SSP MODE)



KEY FEATURES

- **WIDE POWER RANGE**
  Very low noise level = wide power range with just one device
- **CONTINUOUS READINGS AT LOW POWERS**
  The PRONTO-500 includes a continuous power mode (CWP) for measurements up to 40 W.
- **NO-WAIT MEASUREMENTS**
  5 seconds measurements allow for very short cooling time (all models except PRONTO-3K)
- **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.
- **LARGE APERTURE**
  55 mm Ø aperture to accommodate large beams
- **RUGGED**
  - All-metal body
  - High damage thresholds
- **SERIAL COMMANDS**
  Serial commands are available to let you take full control of your PRONTO from your PC.

ACCESSORIES

Stand with steel post

Pelican carrying case

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LASER COMPONENTS®

HIGH-POWER PRONTO

Specifications

CE NIST* Traceable

*Also traceable to NRC-CNRC




	PRONTO-500		PRONTO-3K		PRONTO-6K		PRONTO-10K	
MAX AVERAGE POWER								
SSP Mode (Measures Power in 5 s)	500 W		3000 W		6000 W		10 000 W	
CWP Mode (Measures Power continuously)	40 W		N/A		N/A		N/A	
EFFECTIVE APERTURE	55 mm Ø		55 mm Ø		55 mm Ø		55 mm Ø	
COOLING METHOD	Convection		Convection		Convection		Convection	
MEASUREMENT CAPABILITY								
Spectral range	0.19 - 20 µm		0.19 - 20 µm		0.19 - 20 µm		0.19 - 20 µm	
Calibrated spectral range [a]	0.248 - 2.5 µm		0.248 - 2.5 µm		0.248 - 2.5 µm		0.248 - 2.5 µm	
Noise equivalent power	0.1 W		5 W		20 W		30 W	
Exposure time	5 s[b]		10 s		5 s		5 s	
Calibration uncertainty	± 3% (± 2.5% in CWP mode)		± 5%		± 5%		± 5%	
Number of readings before cooling [c]	100 W	25 (200 s)	0.5 kW	6 (72 s)	1 kW	6 (36 s)	1 kW	10 (60 s)
(Maximum exposure time before cooling)	200 W	12 (100 s)	1 kW	3 (36 s)	2 kW	3 (18 s)	2 kW	5 (30 s)
	300 W	8 (60 s)	1.5 kW	2 (24 s)	3 kW	2 (12 s)	5 kW	2 (12 s)
	500 W	5 (40 s)	3 kW	1 (12 s)	6 kW	1 (6 s)	10 kW	1 (6 s)
DAMAGE THRESHOLDS								
Maximum average power density								
1064 nm, 100 W, CW	25 kW/cm²		---		---		---	
1064 nm, 500 W, CW	5 kW/cm²		7 kW/cm²		---		---	
1064 nm, 3000 W, CW	---		5 kW/cm²		8 kW/cm²		---	
1064 nm, 6000 W, CW	---		---		7 kW/cm²		7 kW/cm²	
1064 nm, 10 000 W, CW	---		---		-		5.5 kW/cm²	
Maximum allowable casing temperature	65 °C		65 °C		75 °C		75 °C	
GENERAL SPECIFICATIONS								
Display type	Touchscreen color LCD		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)		28.0 x 35.0 mm (128 x 160 pixels)	
Data storage	50 000 pts		50 000 pts		50 000 pts		50 000 pts	
Battery type	Rechargeable Li-ion		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%)		17 hours or 4 200 measurements (with brightness set at 25%)	
Battery recharge via	USB port		USB port		USB port		USB port	
PHYSICAL CHARACTERISTICS								
Effective aperture	55 mm Ø		55 mm Ø		55 mm Ø		55 mm Ø	
Dimensions (sensor head)	88W x 88L x 32D mm		88W x 88L x 43D mm		88W x 88L x 36D mm		88W x 88L x 46D mm	
Dimensions (monitor)	41W x 140L x 16D mm		41W x 140L x 16D mm		41W x 140L x 16D mm		41W x 140L x 16D mm	
Weight	930 g		1240 g		1520 g		2150 g	
ORDERING INFORMATION								
Compatible stand	STAND-S-443		STAND-S-443		STAND-S-443		STAND-S-443	
Product page								

a. For calibration at 10.6 µm, add C02-CAL-UP-2 to the order
b. Response time in CWP mode is 2 s.
c. Assuming an exposure time of 8 seconds and for 25°C starting temperature.

Specifications are subject to change without notice

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