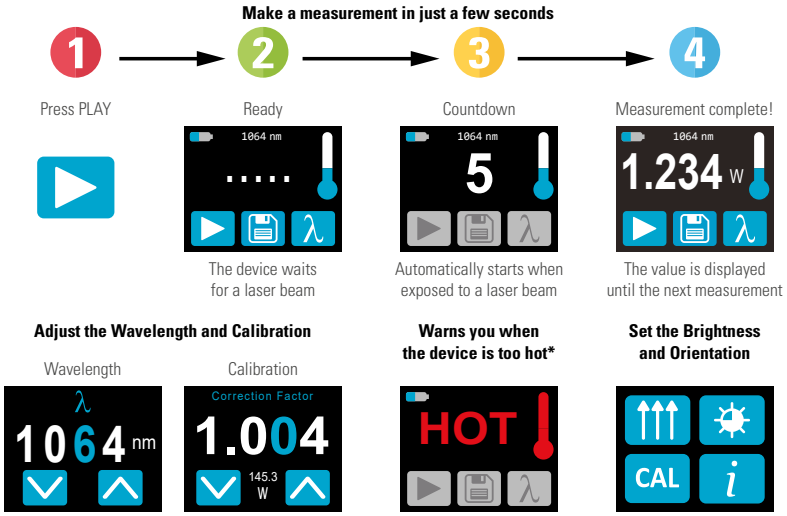
# HIGH-POWER PRONTO

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

# HIGH-POWER PRONTO

Specifications

CE NIST* Traceable WEEE/RoHS COMPLIANT

*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 36D 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.







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