# PRONTO

1 W - 10 kW High Power Probes with Touch Screen Controls

NEW


## KEY FEATURES

1. **WIDE POWER RANGE**
   Very low noise level = wide power range with just one device
2. **CONTINUOUS READINGS AT LOW POWERS**
   The Pronto-500 includes a continuous power mode (CWP) for measurements up to 40 W.
3. **NO-WAIT MEASUREMENTS**
   5 seconds measurements allow for very short cooling time (all models except PRONTO-3K)
4. **EASY-TO-USE**
   The touch screen color LCD allows for a friendly user interface. You can make a measurement with just the touch of a button!
5. **DATA LOGGING**
   Save your data to the internal memory and then transfer it to your PC over the USB connection.
6. **LARGE APERTURE**
   55 mm Ø aperture to accommodate large beams
7. **RUGGED**
   - All-metal body
   - High Damage Thresholds

## AVAILABLE MODELS

PRONTO-500
(500 W)

PRONTO-3K
(3 kW)

PRONTO-(6K/10K)
(6 & 10 kW)

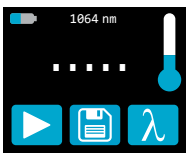
## USER INTERFACE (SSP MODE)

**Make a measurement in just a few seconds**

1 → 2 → 3 → 4

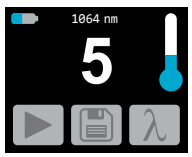
Press PLAY

Ready



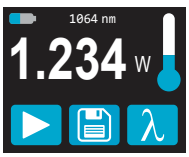

The device waits for a laser beam

Countdown




Automatically starts when exposed to a laser beam

Measurement complete!



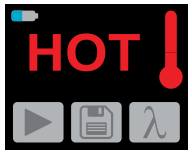

The value is displayed until the next measurement

**Adjust the Wavelength and Calibration**

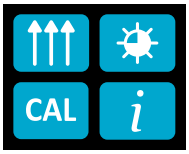
Wavelength


Calibration


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




**Set the Brightness and Orientation**




## ACCESSORIES

Stand with Steel Post
(Model Number: 201102)

Pelican Carrying Case

# PRONTO

CE NIST* Traceable WEEE/RoHS COMPLIANT

*Also traceable to NRC-CNRC

## SPECIFICATIONS

| | NEW PRONTO-500 | | NEW PRONTO-3K | | NEW PRONTO-6K | | NEW PRONTO-10K | |
|---|---|---|---|---|---|---|---|---|
| **MAX AVERAGE POWER** | | | | | | | | |
| SSP Mode (Measures Power in 5 sec) | 500 W | | 3 000 W | | 6 000 W | | 10 000 W | |
| CWP Mode (Measures Power continuously) | 40 W | | N/A | | N/A | | N/A | |
| **EFFECTIVE APERTURE** | 55 mm Ø | | | | | | | |
| **COOLING METHOD** | Convection | | | | | | | |
| **MEASUREMENT CAPABILITY** | | | | | | | | |
| Spectral Range | 0.19 – 20 µm | | | | | | | |
| Calibrated Spectral Range [a] | 0.248 - 2.5 µm and typical 10.6 µm | | | | | | | |
| Noise Equivalent Power | 0.1 W | | 5 W | | 20 W | | 30 W | |
| Response Time | 5 sec | | 10 sec | | 5 sec | | 5 sec | |
| Calibration Uncertainty | ±3 % | | ±5 % | | ±5 % | | ±5 % | |
| Number of Readings Before Cooling | 100 W | 25 (200 sec) | 0.5 kW | 6 (72 sec) | 1 kW | 6 (36 sec) | 1 kW | 10 (60 sec) |
| (Maximum Exposure Time Before Cooling) | 200 W | 12 (100 sec) | 1 kW | 3 (36 sec) | 2 kW | 3 (18 sec) | 2 kW | 5 (30 sec) |
| | 300 W | 8 (60 sec) | 1.5 kW | 2 (24 sec) | 3 kW | 2 (12 sec) | 5 kW | 2 (12 sec) |
| | 500 W | 5 (40 sec) | 3 kW | 1 (12 sec) | 6 kW | 1 (6 sec) | 10 kW | 1 (6 sec) |
| **DAMAGE THRESHOLDS** | | | | | | | | |
| Maximum Average Power Density | | | | | | | | |
| 1064 nm, 100 W, CW | 25 kW/cm$^2$ | | --- | | --- | | --- | |
| 1064 nm, 500 W, CW | 5 kW/cm$^2$ | | 7 kW/cm$^2$ | | --- | | --- | |
| 1064 nm, 3000 W, CW | --- | | 5 kW/cm$^2$ | | 8 kW/cm$^2$ | | --- | |
| 1064 nm, 6000 W, CW | --- | | --- | | 7 kW/cm$^2$ | | 7 kW/cm$^2$ | |
| 1064 nm, 10000 W, CW | --- | | --- | | – | | 5.5 kW/cm$^2$ | |
| Maximum Allowable Absorber Temperature | 65 °C | | 65 °C | | 75 °C | | 75 °C | |
| **GENERAL SPECIFICATIONS** | | | | | | | | |
| Display Type | Touch Screen Color LCD | | | | | | | |
| Display Size | 28.0 x 35.0 mm (128 x 160 pixels) | | | | | | | |
| Backlight | Adjustable | | | | | | | |
| Internet Upgrades Via | USB port | | | | | | | |
| Data Storage | 50,000 pts | | | | | | | |
| Battery Type | Rechargeable Li-ion | | | | | | | |
| Battery Life | 17 hours or 4 200 measurements (with brightness set at 25%) | | | | | | | |
| Battery Recharge Via | USB port | | | | | | | |
| Operating Temperature Range | 15 - 28 °C (max 80% RH) | | | | | | | |
| **PHYSICAL CHARACTERISTICS** | | | | | | | | |
| Effective Aperture | 55 mm Ø | | | | | | | |
| Dimensions (Sensor Head) | 88W x 88L x 32D mm (194L with handle) | | 88W x 88L x 36D mm (194L with handle) | | 88W x 88L x 36D mm (194L with handle) | | 88W x 88L x 46D mm (194L with handle) | |
| Dimensions (Monitor) | 41W x 140L x 16D mm | | | | | | | |
| Weight | 930 g | | 1240 g | | 1520 g | | 2150 g | |
| **ORDERING INFORMATION** | | | | | | | | |
| Common Product Name | Pronto-500 | | Pronto-3K | | Pronto-6K | | Pronto-10K | |
| Product Number | 203466 | | 203468 | | 203469 | | 203470 | |

Specifications are subject to change without notice

a. For calibration at 10.6 µm, add C02-CAL-UP-1 to the order