

2.0 Power Meters & Interfaces

Power Meter Finder

The table below lists the specs and features of Ophir Power Meters and PC Interfaces



| | Centauri Single & Dual Channel | StarBright | Vega | Nova II | StarLite | Nova |
|---|--------------------------------|--------------|--------------|--------------|------------|------------|
| Digital Display | Yes | Yes | Yes | Yes | Yes | Yes |
| Display Color | Color | Color | Color | Monochrome | Monochrome | Monochrome |
| Analog Display | Yes | Yes | Yes | Yes | Yes | No |
| Rechargeable Battery | Yes | Yes | Yes | Yes | Yes | Yes |
| Detector Support (see compatibility table below) | | | | | | |
| Thermal Sensors | Yes | Yes | Yes | Yes | Yes | Yes |
| Photodiode Sensors | Yes | Yes | Yes | Yes | Yes | Yes |
| Pyroelectric Sensors | Yes | Yes | Yes | Yes | Yes | Yes |
| BeamTrack Sensors | Yes | Yes | Yes | Yes | Yes | No |
| Measurement Options | | | | | | |
| Average Power | Yes | Yes | Yes | Yes | Yes | Yes |
| Energy per Pulse (Pyro. Sensors) | Yes | Yes | Yes | Yes | Yes | Yes |
| Single Shot Energy (Thermal Sensors) | Yes | Yes | Yes | Yes | Yes | Yes |
| Statistics | Yes | Yes | Yes | Yes | No | Yes |
| Analog Out | 1V,2V,5V,10V | 1V,2V,5V,10V | 1V,2V,5V,10V | 1V,2V,5V,10V | 1V | 1V |
| Trigger input & output | Yes | No | No | No | No | No |
| Real-Time Logging | | | | | | |
| RS232 | 30Hz | 30Hz | 30Hz | 30Hz | N/A | 10Hz |
| USB | 25,000Hz | 5000Hz | 2000Hz | 2000Hz | 20Hz* | N/A |
| Bluetooth | N/A | N/A | N/A | N/A | N/A | N/A |
| Ethernet | Yes | N/A | N/A | N/A | N/A | N/A |
| On-Board Data Storage | 2GB | >10MB** | 250kB | 50kB | No | 1kB |
| Automation Interface | Yes | Yes | Yes | Yes | Yes* | No |
| LabVIEW VI's | Yes | Yes | Yes | Yes | Yes* | Yes |
| Part number | 7Z01700/ 7Z01701 | 7Z01580 | 7Z01560 | 7Z01550 | 7Z01565 | 7Z01500 |
| Page in the catalog | 173 | 175 | 177 | 179 | 181 | 183 |

* StarLite with USB enabled prestore (P/N 7Z01569) or with activation code (P/N 7Z11049) see page 182
 ** Depends on size of USB Flash Drive

Compatibility Table

| Meter / Interface | Centauri | StarBright | Vega/ Nova II | StarLite | Nova | Juno | Juno+ | Juno-RS | EA-1 | Pulsar | Quasar | Legacy LaserStar |
|---|----------|------------|------------------|----------|--|------|-------|---------|------|---------------------------------------|---------------------------------------|---------------------------------------|
| Sensor | | | | | | | | | | | | |
| Supports full calibration curve for sensors so calibrated * | yes | yes | yes | yes | no | yes | yes | yes | yes | yes | yes | no |
| BeamTrack sensors | yes | yes | yes | yes | Power/Energy only | yes | yes | yes | yes | Power/Energy only | Power/Energy only | Power/Energy only |
| BC20 sensor | no | yes | yes | no | yes | yes | yes | no | no | no | no | yes |
| PD300-CIE sensor | yes | yes | yes | no | yes | yes | yes | yes | no | no | no | yes |
| PD300RM sensors | yes | yes | no | yes | no | no | yes | yes | no | no | no | no |
| PE-C Pyroelectric sensors | yes | yes | yes | yes | Needs adaptor (P/N 7Z08272) Limited functions. See sensor page | yes | yes | yes | yes | Limited functions. See sensor page | Limited functions. See sensor page | Limited functions. See sensor page |
| Legacy | | | | | | | | | | | | |
| LP1 type Thermal sensors | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes | yes |
| Previous generation Pyroelectric sensors (non PE-C) | no | no | yes | no | yes | yes | no | no | no | yes | yes | yes |

* Some sensors are calibrated with a full spectral curve and the user selects any discreet, specific wavelength within the range. For other sensors, the specified spectral range is divided into regions, and the user is prompted to select the region (such as "<800nm"). For those sensors having the full curve, the table above shows which meters support the curve and prompt the user to select specific discreet wavelengths. When using meters that do NOT support this function, the user will only be able to select a number of specific wavelengths from within the range.



| Juno | Juno+ | Juno-RS | EA-1 | Pulsar-1/2/4 | Wireless Interface Quasar |
|------------------|------------------|-----------------|------------|-----------------------------|---------------------------|
| N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A |
| N/A | N/A | N/A | N/A | N/A | N/A |
| Powered from USB | Powered from USB | 12V | 12V or PoE | 12V | Yes |
| Yes | Yes | Yes | Yes | Yes | Yes |
| Yes | Yes | Yes | Yes | Yes | Yes |
| Yes | Yes | Yes | Yes | Yes | Yes |
| Yes | Yes | Yes | Yes | No | No |
| Yes | Yes | Yes | Yes | Yes | Yes |
| Yes | Yes | Yes | Yes | Yes | Yes |
| Yes | Yes | Yes | Yes | Yes | Yes |
| Yes | Yes | Yes | Yes | Yes | Yes |
| No | 1V, 2V, 5V, 10V | 1V, 2V, 5V, 10V | No | No | No |
| No | No | No | No | Yes | No |
| N/A | N/A | 500Hz | N/A | N/A | N/A |
| 10,000Hz | 10,000Hz | N/A | N/A | 25,000Hz | N/A |
| N/A | N/A | N/A | N/A | N/A | 500Hz |
| N/A | N/A | N/A | 25,000Hz | N/A | N/A |
| No | No | N/A | N/A | No | No |
| Yes | Yes | Yes | Yes | Yes | No |
| Yes | Yes | No | No | Yes | No |
| 7Z01250 | 7Z01252 | 7Z01254 | 7Z01240 | 7Z01203 / 7Z01202 / 7Z01201 | 7Z01300 |
| 187 | 188 | 189 | 190 | 191 | 192 |

Ophir power meters are true plug-and-play instruments. With all sensor information and calibration stored in the sensor plug, just plug in any one of over 150 Ophir sensors and the instrument is calibrated and configured to measure laser power and energy with that sensor.