

# 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	LaserStar Single & Dual Channel
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
<b>Detector Support</b> (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
<b>Measurement Options</b>						
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
<b>Real-Time Logging</b>						
RS232	30Hz	30Hz	30Hz	30Hz	N/A	30Hz
GPIB	N/A	N/A	N/A	N/A	N/A	1500Hz
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	50kB
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	7Z01600/ 7Z01601
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\* StarLite with USB enabled prestored (P/N 7Z01569) or with activation code (P/N 7Z11049) see page 180  
 \*\* Depends on size of USB Flash Drive

### Compatibility Table

Meter / Interface	Centauri	StarBright	Vega/ Nova II	StarLite	LaserStar	Nova	Juno	Juno+	Juno-RS	EA-1	Pulsar	Quasar	Legacy USB1
Supports full calibration curve for sensors so calibrated *	yes	yes	yes	yes	no	no	yes	yes	yes	yes	yes	yes	yes
BeamTrack sensors	yes	yes	yes	yes	Power/ Energy only	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	yes	no	no	no	no	no
PD300-CIE sensor	yes	yes	yes	no	yes	yes	yes	yes	yes	no	no	no	no
PD300RM sensors	yes	yes	no	yes	no	no	no	yes	yes	no	no	no	no
PE-C Pyroelectric sensors	yes	yes	yes	yes	Limited functions. See sensor page	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
<b>Legacy</b>													
LP1 type Thermal sensors	yes	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	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.



	Nova	Juno	Juno+	Juno-RS	EA-1	Pulsar-1/2/4	Wireless Interface Quasar
Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A
Monochrome	Yes	N/A	N/A	N/A	N/A	N/A	N/A
No	No	N/A	N/A	N/A	N/A	N/A	N/A
Yes	Yes	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	Yes	Yes
No	No	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
1V	No	No	1V, 2V, 5V, 10V	1V, 2V, 5V, 10V	No	No	No
No	No	No	No	No	No	Yes	No
10Hz	N/A	N/A	N/A	500Hz	N/A	N/A	N/A
N/A	N/A	N/A	N/A	1500Hz	N/A	N/A	N/A
N/A	10,000Hz	10,000Hz	N/A	N/A	N/A	25,000Hz	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	500Hz
N/A	N/A	N/A	N/A	N/A	25,000Hz	N/A	N/A
1kB	No	No	No	N/A	N/A	No	No
No	Yes	Yes	Yes	Yes	Yes	Yes	No
Yes	Yes	Yes	Yes	No	No	Yes	No
7Z01500	7Z01250	7Z01252	7Z01254	7Z01240	7Z01203 / 7Z01202 / 7Z01201	7Z01300	
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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.