Versatile Laser Power/Energy Meter

- Compatible with all standard Ophir thermal, BeamTrack, pyroelectric and photodiode sensors
- Large high definition LCD display
- · Choice of digital or analog needle display
- 2 position kickstand
- Backlighting and rechargeable battery
- Select between English and Japanese interfaces
- Analog output
- Log every point at up to 4000Hz with pyro sensors
- Non-volatile data storage up to 59,400 points
- Laser tuning screen and power and energy log
- USB and RS232 interfaces with StarLab and StarCom PC applications, LabVIEW driver and COM Object Interface (see pages 159-165)
- Soft keys and menu driven functions with on-line help
- Many software features such and density, min/max, scaling etc.

The Nova II is a very versatile and sophisticated handheld laser power/energy meter. Just plug in one of the many Ophir sensors and you have a whole measurement laboratory at your fingertips. The Nova II has many on-board features such as laser tuning, data logging, graphing, normalize, power or energy density units, attenuation scaling, max and min limits. The Nova II can also display the power or energy with a high resolution simulated analog needle display.

The Nova II can be operated either by battery or from an AC source with the charger plugged in at all times. Its backlight allows illumination of the power meter in low light conditions.

The built-in USB and RS232 interfaces and StarLab and StarCom PC software allow on-line processing of data or processing previously stored data; results are displayed graphically on a PC. To support PC interfacing, LabVIEW drivers and COM Object Interface are provided.



StarLab Software

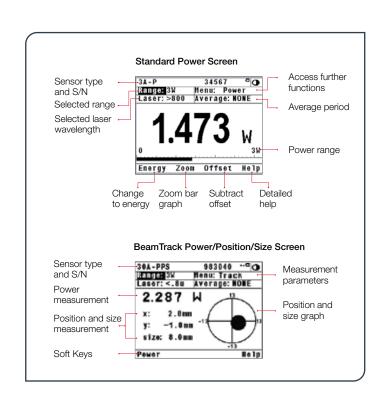
Selected Screens

Digital Power Screen

- CW industrial, medical and scientific lasers
- pW to Multi kW with appropriate sensors
- Can average over selected period. Useful for unstable lasers
- Fast response bar graph

BeamTrack Power/Position/Size Screen

- Monitoring of laser beam size
- · Accurate tracking of beam position to fractions of a mm
- Beam position and wander
- All the other features of standard power/energy meters





Analog Power Screen

- Perfect for adjusting and maximizing laser power
- Large analog needle with small digital display as well

Energy Screen

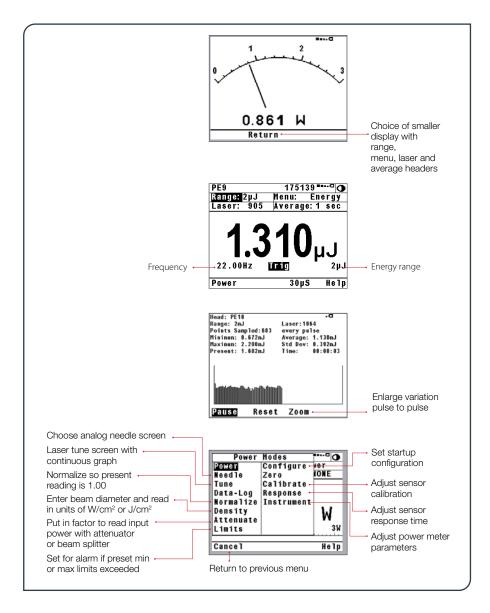
- Pulsed energy sensors (single or repetitive) and thermal sensors (single shot only)
- Frequency measurement with pulsed energy sensors

Energy Logging Screen

- Pyroelectric and thermal sensors
- Continuous scroll with up to 100 points on screen
- Full statistics
- Store data onboard and recall

Additional Functions

• Press the menu choice on the main screen and many more options pop up as shown



Specifications

Power Meter	High legibility 320 x 240 pixel graphics LCD with switchable electroluminescent backlight. Large 18mm digits. High resolution analog needle also can be chosen.		
Features	Many screen features including power with bar graph, energy, average, exposure, frequency, graphs, scaling, special units, and more. Complete on line context sensitive help screens.		
Outputs	USB, RS232 and 1, 2, 5 and 10 volt full scale analog output.		
Screen Refresh	15 times/sec		
Case	Molded high impact plastic with two level kickstand.		
Size	Folds to a compact 208mm Lx 110mm Wx 43mm H		
Battery	Rechargeable NiMH batteries with typically 18 hours between charges. The charger can be ordered from your local distributor. The charger also functions as an AC adapter.		
Data Handling	Data can be viewed on board or transmitted to PC: On Board: Non-volatile storage of up to 54000 data points in up to 10 files. Max onboard data logging rate 4000 (a) points/s and Max data logging rate to the PC 2000 (a) points/s.		
Sensor Features	Works with Thermopile, BeamTrack, Pyroelectric (PE-C series) and Photodiode sensors (b).		
Program Features	Preferred startup configuration can be set by user. User can recalibrate power, energy, response time and zero offset.		
Compliance	CE, UKCA, China RoHS		
Notes: (a) The above refers to the rate of logging every single point in turbo mode. Above that rate, the instrument will sample points but not log every single point			
Notes: (b) Not including PD300RM sensors			

Ordering Information

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Item	Description	Ophir P/N	
Nova II	Nova II universal power meter for standard thermal, BeamTrack, pyroelectric and photodiode sensors	7Z01550	
Carrying Case	Carrying case 38x30x11 cm. For power meter and up to three sensors	1J02079	
Nova II USB Cable	USB to mini DIN cable (1 unit supplied with Nova II)	7E01205	
Nova II RS232 Cable	D9 to mini DIN cable (1 unit supplied with Nova II)	7E01206	
Battery Pack	Replacement battery pack for the Nova II	7E14007A	
N Polarity Power Supply/Charger	Power Supply/Charger AC/DC 12V 2A N-2.1x5.5 (1 unit supplied with Nova II)	7E05029	
Standard Analog Output Connector	2.5mm mono jack (1 unit supplied with Nova II)	7E02008	

