

2.1.5 Orion

Family of Handheld Laser Meters

For those who do not need the multifunction, or the single shot energy capability of the Nova, Ophir offers the Orion series - a lower cost alternative.

- Orion TH for measuring power with all Ophir thermal sensors
- Orion PE for energy with Ophir pyroelectric sensors
- Orion PD for photodiode sensors featuring full wavelength correction
- Soft keys, menu-driven graphic display with analog output and backlight
- Optional RS232 computer interface with Windows StarCom software (see pages 97-98)

Orion TH

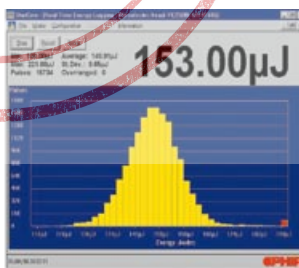
- Supports over 50 Ophir thermal sensors μW to multi KW
- Fast response power measurement with auto or manual ranging
- Corrected for major laser wavelengths
- Laser tuning screen to maximize laser power
- Offset background at the push of a button

Orion PE

- Supports all Ophir pyroelectric sensors and PD10 nanojoule meter
- Measures laser energy from nJ to 60J
- Frequencies up to 5KHz
- Energy logging statistics
- Built-in wavelength correction

Orion PD

- Supports all Ophir photodiode sensors 200-1800 nm
- Wavelength corrected at 1nm increments with user selected favorite wavelength for ease of use
- pW to 3W with appropriate sensors. Patented dynamic background subtraction
- Display Watts or dBm
- Auto or manual range
- Laser tuning screen to maximize laser power



StarCom Software



RS232 Cable for Orion

Selected Screens

Digital Bargraph Power Screen



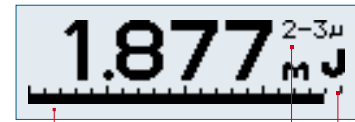
Bargraph Wavelength correction Units

Digital Bargraph Power Screen



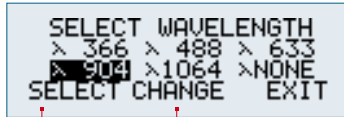
Bargraph Wavelength correction Units

Digital Bargraph Energy Screen



Bargraph Wavelength correction Units

Wavelength Selection Screen



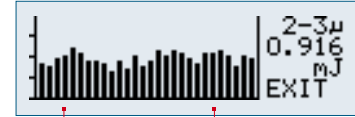
Select wavelength Change wavelength to different value

Laser Tuning Screen



Zoom Time scale

Energy Logging Screen



Pulse energies (scrolls when full)

Specifications

Power Meter	High legibility 32 x 122 pixel graphics supertwist LCD with electroluminescent backlight.
Outputs	RS232 and analog output 1V f.s. (optional)
Case	Molded high-impact plastic with kickstand and EMI conductive shielding to CE standards.
Size	Very compact: 205 x 95 x 39mm
Battery	Rechargeable with 22 hours operating time per charge. Charger (included) also functions as AC adapter.
Data Handling	Data can be viewed on board or transmitted to PC: On Board: Max data logging rate >10 points/s Transmitted to PC: Data transmission rate of ~50 points/s. RS232 baud rate of 19200
Program features	Preferred startup configuration can be set by user and stored in sensor plug. Orion can be zeroed at the press of a button. Complete plug-and-play operation. All calibration and configuration information is read from the sensor plug.

Ordering Information

Item	Description	Ophir P/N
Orion TH	Orion power meter for thermal sensors and BC20 sensors	7Z01801
Orion PD	Orion power meter for photodiode sensors	7Z01803
Orion PE	Orion power meter for pyroelectric sensors	7Z01802
Carrying Case	Carrying case 38x30x11cm. For power meter and up to three sensors.	1J02079
Nova/Orion RS232 Assemblies - allow Orion power meter to communicate with PC and be controlled by PC		
Nova/Orion RS232 Assembly	RS232 adapter with standard 2 meter cable (including software) (see page 89)	78105
Nova/Orion RS232 Assembly	RS232 adapter with 5 meter cable (including software)	781052
Nova/Orion RS232 Assembly	RS232 adapter with 8 meter cable (including software)	781051
Battery Pack	Replacement battery pack for Orion	7Z11200