

2.1.7 NOVA

Compact and Durable Power / Energy Meter

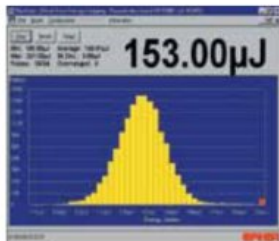
- Compact and durable
- Compatible with all standard Ophir sensors: thermal, pyroelectric* and photodiode
- Single shot energy measurement with thermal sensors
- Optional RS232 interface with StarCom PC application and LabVIEW driver (see pages 159-165)
- Power and energy logging with graphical display and statistics
- Power averaging
- Easy to use soft keys, menu-driven
- Screen graphics
- Backlight and rechargeable battery
- Analog output
- EMI rejection



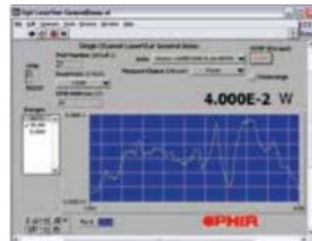
RS232 cable for Nova

Compatible with the complete range of Ophir thermal (power and energy), pyroelectric and photodiode sensors, Nova is truly versatile: measuring power or energy from pJ and pW to hundreds of Joules and thousands of Watts. With the optional scope adapter, you can connect your pyro sensor to an oscilloscope and see every pulse up to the maximum frequency permitted by the sensor. Smart connector sensors automatically configure and calibrate Nova when plugged in. Soft keys guide you through the screen graphics. Finished working? Your configuration can be saved for future use. Nova's autoranging tune screen displays laser power graphically and displays maximum power. Zoom and time scale can be adjusted by user.

The optional RS232 interface 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 are provided.



StarCom Software



LabVIEW

Selected Screens

Digital Power Screen

- CW industrial, medical and scientific lasers
- pW to multi kW with appropriate sensors

Laser Tuning Screen or Power Log Screen (not shown)

- Maximizing laser power
- User selected time period and zoom

129.1 CO2

W

→ Laser

→ Units (W or dbm)

→ Bargraph (with zoom)

Press Menu button or soft keys to make legends visible (not shown).

→ YAG

→ 29.8

→ W

→ Units

EXIT

Press Menu button or soft keys to make legends visible.

±50%

Time

Exit

↓
Zoom

↓
Sweep/Time

Power Meters

2.1.7

* PE-C series of pyroelectric sensors are compatible with Nova, when used with an additional adapter (P/N 7Z08272) – see page 110.

