Laserstar

Versatile Laser Power/Energy Meter

- Two models available: dual and single channel
- Single channel model can be upgraded to dual channel
- Compatible with all Ophir thermopile, pyroelectric, photodiode and RP heads
- Large LCD display
- Backlighting and rechargeable battery
- Screen graphics and statistics (std dev. min, max)
- Analog output
- Built-in RS232 interface
- Log every data point at >1500Hz with pyroelectric heads
- Non-volatile data storage up to 50,000 points
- Laser tuning screen and power log
- Audio sound for laser tuning and low battery
- Statistics package
- GPIB option (IEEE488.1)
- NIST traceable
- CE marked
- Soft keys, menu-driven



The dual channel model enables user to simply plug in any of Ophir's thermal, pyroelectric, photodiode or RP heads and measure two channels independently, or the ratio or difference between them in real time.

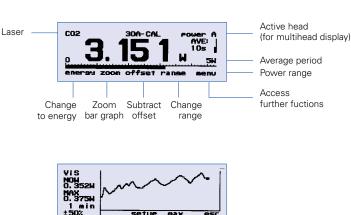
Up to 10 data files (54,000 points total) can be stored for onboard review or downloading to computer even if Laserstar has been switched off. The built-in RS232 interface and StarCom PC software allow on-line processing of data or processing previously stored data; results are displayed graphically on a PC.

Digital Power Screen

- CW industrial, medical and scientific lasers
- pW to 20KW with appropriate heads
- Can average over selected period Useful for unstable lasers
- Fast response bar graph

Laser Tuning Screen or Power Log Screen (not shown)

- Maximizing laser power
- User selected time periodand zoom
- Option of audio tune tone



Change

settings

Set

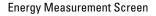




86



For latest updates please visit our website: www.ophir-spiricon.com



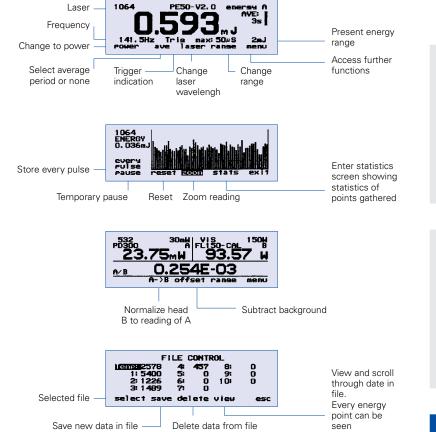
- Pyroelectric and thermal heads – single pulse
- Pyroelectric frequency measurement
- Energy Log Screen
- Pyroelectric heads
- Thermal heads successive single pulses
- Continuous scroll
- Energy statistics

Ratio Screen

- Two independent heads
- Measure ratio, sum, difference
- Normalize one head to the other

Data Storage and Transmission

- Non-volatile storage of power and energy logging data
- Store in up to 10 files and transmit to PC
- PC using StarCom Windows program provided



Specifications

| High legibility 64 x 240 pixel graphics supertwist LCD with switchable, electroluminescent backlight which operates from |
|--|
| charger or battery. Large 17mm digits. Screen refresh 15Hz. |
| Many screen features including: power with bargraph, energy, average, exposure, frequency, graphs and more. Analog output |
| 1 volt F.S. |
| Molded high-impact plastic with swivel display and EMI conductive shielding, to allow use even in proximity to pulsed lasers. |
| Folds to a compact 228mm W x 195mm L x 54mm H. |
| Rechargeable 18 hours between charges. Charger (included) also functions as AC adapter. |
| Two heads can be connected and measure independently, or the ration, sum or difference of the two can be displayed. |
| Built-in RS232 communications at up to 19200 baud. Non-volatile on-board data storage in 10 files of up to 54000 points total. |
| Data can be viewed on-board or transmitted to PC. |
| Works with thermal, pyroelectric and photodiode heads. Automatic, continuous, background cancellation with PD300 heads. |
| Submicrojoule and multikilohertz capability with pyroelectric heads. |
| User can update calibration information. Preferred startup configuration can be set by user. User can recalibrate power, energy, |
| response time and zero offset. |
| |

| Ordering Information | | |
|------------------------|---|-----------|
| ltem | Description | Ophir P/N |
| Laserstar | Laserstar single channel universal smart head display for thermal, pyroelectric, photodiode and RP | 7Z01600 |
| | heads | |
| Laserstar 2 Channel | Laserstar with dual channel capability including ration and difference measurement | 7Z01601 |
| Laserstar Hard Case | Hard case 46x35x13cm. For display and up to three heads | 1Z09101 |
| Laserstar AN adapter | Laserstar analog output adapter. Plugs into D25 output and provides analog output from BNC plug (1 unit | 7Z11004 |
| | supplied with Laserstar) | |
| Laserstar Battery Pack | Laserstar NiMH Battery update Kit | 7E14006 |
| Laserstar IEEE Option | IEEE GPIB adapter for Laserstar | 78300 |



Displays

87