Laserstar

Versatile Laser Power/Energy Meter

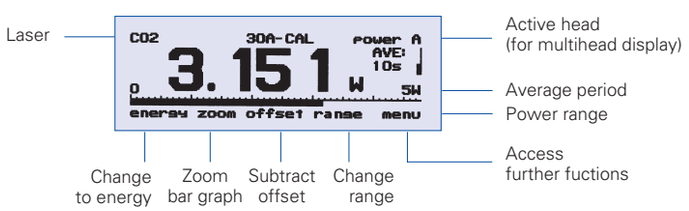
- Two models available: dual and single channel
- Single channel model can be upgraded to dual channel
- Compatible with all Ophir thermopile, pyroelectric, photodiode and RP heads
- Large LCD display
- Backlighting and rechargeable battery
- Screen graphics and statistics (std dev. min, max)
- Analog 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.

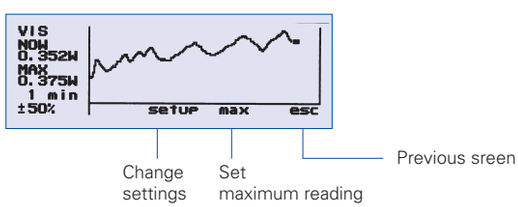
Digital Power Screen

- 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



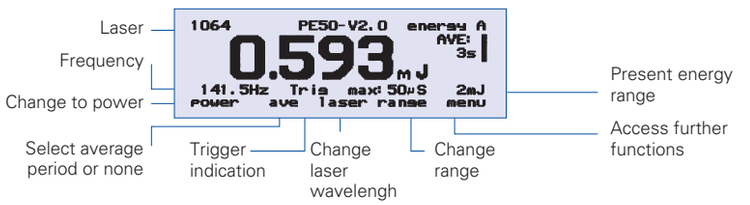
Laser Tuning Screen or Power Log Screen (not shown)

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



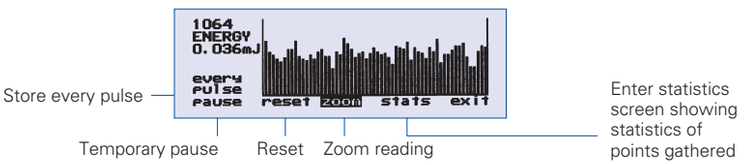
Energy Measurement Screen

- Pyroelectric and thermal heads – single pulse
- Pyroelectric frequency measurement



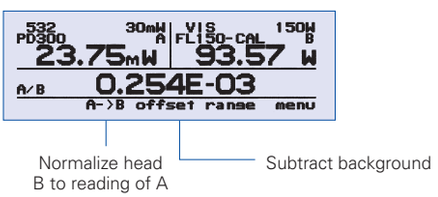
Energy Log Screen

- Pyroelectric heads
- Thermal heads – successive single pulses
- Continuous scroll
- Energy statistics



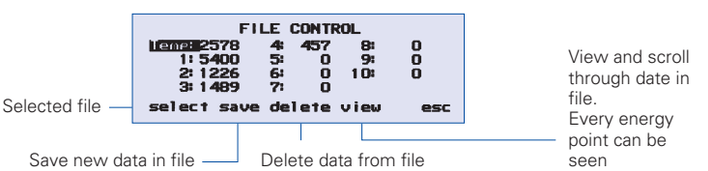
Ratio Screen

- 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 using StarCom Windows program provided



Specifications

Display	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.
Features	Many screen features including: power with bargraph, energy, average, exposure, frequency, graphs and more. Analog output 1 volt F.S.
Case	Molded high-impact plastic with swivel display and EMI conductive shielding, to allow use even in proximity to pulsed lasers.
Size	Folds to a compact 228mm W x 195mm L x 54mm H.
Battery	Rechargeable 18 hours between charges. Charger (included) also functions as AC adapter.
Multihead option	Two heads can be connected and measure independently, or the ration, sum or difference of the two can be displayed.
Data handling	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.
Head features	Works with thermal, pyroelectric and photodiode heads. Automatic, continuous, background cancellation with PD300 heads. Submicrojoule and multikilohertz capability with pyroelectric heads.
Program features	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		
Item	**Description**	**Ophir P/N**
Laserstar	Laserstar single channel universal smart head display for thermal, pyroelectric, photodiode and RP heads	7Z01600
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 supplied with Laserstar)	7Z11004
Laserstar Battery Pack	Replacement battery pack for Laserstar	7E14006
Laserstar IEEE Option	IEEE GPIB adapter for Laserstar	78300