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2.1 Power Meters
2.1.1 Centauri

Feature Rich Touchscreen Laser Power/Energy Meter

- Compatible with all standard Ophir Thermal, BeamTrack, Pyroelectric and Photodiode sensors
- Large 7” Full Color Touch Display
- Multilingual interface – English, French, Spanish, Italian, German, Russian, Japanese, Chinese and Korean
- Single and Dual Channel models available
- Various Displays: Bargraph, Analog Needle, Line Plot, Pulse Chart, Pass/Fail, Position, Stability, and Real Time Statistics
- Dual Channel Instrument supports Split and Merged Graphical Displays
- Sophisticated power and energy logging, including logging every pulse at up to 25000Hz with Pyro sensors
- Math functions: Density, Scale Factor, Normalize against base line, etc. Functions can be mixed together, displayed graphically, and can also be logged
- Math Channel allows comparison of two measurements
- Field upgrading of embedded software via USB Flash Drive
- 2GB internal storage and USB Flash Drive for ample data storage [(a)]
- USB, Ethernet and RS232 interfaces with StarLab PC application and User Commands document
- LabVIEW driver and COM Object Interface



- Pulsed Power measurements with Thermopile sensors
- Low Frequency Power with Photodiode sensors - power measurement based on pulse cycle (for VCSEL)
- Fast Power (10kHz) logging with Photodiode sensors
- Exposure measurement (Energy Summing) with Photodiode and Pyroelectric sensors
- Scalable Analog Output, TTL Output and External Trigger Input
- Loudspeaker for Audio Warnings

Centauri is the most feature rich desktop laser power/energy meter on the market. Just plug in one of the many Ophir sensors and you have a whole measurement laboratory at your fingertips. The bright color display gives unparalleled legibility and ease of interpreting information. Centauri has many on board features such as laser tuning, data logging, graphing, normalize, power or energy density, attenuation scaling, max and min limits. Centauri can also display the power or energy as a high resolution simulated analog needle display.

Centauri can be either battery operated or from an AC source with the charger plugged in at all times. Its bright display and user-selectable color format enables ease of use in dark room conditions or when wearing protective glasses.



The built-in USB, Ethernet and RS232 interfaces and StarLab PC software allow display and processing of data either in real time or from previously stored data. Results are displayed graphically on a PC. To support PC interfacing, LabVIEW drivers, a COM Object Interface and demo source code are provided.

The Centauri’s dual channel capabilities enable the user to simply plug in any of Ophir’s thermal, pyroelectric or photodiode sensors and measure the two channels independently, or a comparison between the two channels.

Centauri Screen Layout

The Centauri’s 7” touch-screen provides ease-of-use at the tap of a finger. The display is carefully designed to provide easy reading of the laser measurement, quick access to configuration parameters as well as the ability to set up for more advanced work.



Info Panel. Includes channel (A or B), sensor name, and serial number.
Tap the menu icon at the right to easily access more functionality.

Sensor Settings. Displayed on screen and easily updated. Tap on a parameter to open a window that displays all of the options. Tap on the desired setting to reconfigure and get back to work. Settings are stored in the sensor’s memory as the startup settings for the next measurement session.

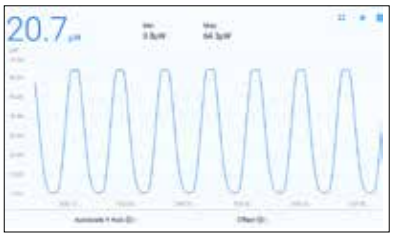
Measurements. Numeric and Graphical display of reading. Tap Offset to reduce ambient environmental effects on the readings. Tap Zoom to focus the bargraph around the present measurement.

(a) USB Flash Drives of up to 32GB and FAT32 format only (Not exFAT nor NTFS formats).

Selected Screens



Analog needle display of power Persistence and min/max tracking.



Line graph display of power.



Pulse chart display of energy.



Display statistics of the present measurement session.



Pass/Fail screen. Excellent for QA purposes.



Power, Position, and Size measured with a BeamTrack sensor.



Two independent channels of measurement.



Two channels merging into one graph.



Two channels with a math comparison channel.

Specifications

Power Meter	Brilliant color touch-screen TFT 1064 x 600 pixel graphics LCD. Large 16mm digits.
Features	Many screen features including power with bar graph, energy, average, exposure, frequency, graphs, scaling, special units, and more.
I/O's	USB, Ethernet, RS232 and user selectable 1,2,5 and 10 Volt full scale analog output; TTL Output; External Trigger Input; Loudspeaker for Audio Warnings
Screen Refresh	15 times/sec
Case	Molded high impact plastic with optimized angle kickstand. Rubberized sides for easy grip and protection against damage.
Size	Compact 47mm L x 200mm W x 130mm H (Weight 1kg)
Battery	Rechargeable Li-ion batteries with typically 6 hours between charges. The charger also functions as an AC adapter.
Multisensor Option	Two sensors can be connected and measure independently, and with a mathematical comparison.
Data Handling	Data can be viewed on board or transferred to PC: On Board: Data stored to USB Flash Drive (Thumb Drive) at rates up to 25,000 points/s.
Sensor Features	Works with Thermopile, BeamTrack, Pyroelectric (PE-C series) and Photodiode sensors [a].
Program Features	Preferred start up configuration can be set by user.
Compliance	CE, UKCA, China RoHS

Note: (a) Not including BC20 sensor

Ordering Information

Item	Description	Ophir P/N
Centauri Single Channel	Centauri high end power meter for Thermal, BeamTrack, Pyroelectric and Photodiode sensors	7Z01700
Centauri Dual Channel	Dual Channel high end power meter for Thermal, BeamTrack, Pyroelectric and Photodiode sensors	7Z01701
Centauri Dual Channel Activation Code	Software activation code to field upgrade a Single Channel Centauri to Dual Channel capabilities	7Z11056
Centauri USB Cable	USB-A to MICRO-B cable (1 unit supplied with Centauri)	7E01279
Centauri RS232 Cable	D9 to 3.5mm plug cable (1 unit supplied with Centauri)	7E01213
N Polarity Power Supply/Charger	Power Supply/Charger AC/DC 12V 2A N-2.1x5.5 (1 unit supplied with Centauri)	7E05029
General Purpose I/O Connector	Used as analog output, external trigger output and TTL output plug (3 units supplied with Centauri)	7E02008

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