2.3 Software Solutions

2.3.1 StarLab

StarLab turns your PC into a laser power/energy multi-channel station

Extensive Graphic Display of Data
- Line Plot, Histogram, Bar chart, Simulated Analog Needle
- Multiple data sets on one graph or separate graphs on the same screen

Advanced Measurement Processing
- Power/Energy Density, Scale Factor, Normalize against a reference
- Multi-channel comparisons
- User defined mathematical equations: channels A/B, (A-B)/C etc.
- Position & size measurement with BeamTrack sensors

Data Logging for Future Review
- Can be displayed graphically or saved in text format
- Easily exported to an Excel spreadsheet

Fully supports Centauri, StarBright, StarLite, Vega, Nova II, Pulsar, Juno, Juno+, Quasar, EA-1 and USBI devices with all standard Ophir sensors

Flexible Display Options with StarLab

You may choose to display them separately

Choose which channels to display

Maximize one of the sources

Choose line graph

or histogram

One of the above screens is maximized

or needle display
Multiple Sensors displayed together

Click on one of the channels

The numerical values are from the channel chosen

Here multi line graph display has been chosen

Additional functions are available from the "Functions" tab

Here multi line histogram display has been chosen
Functions and Logging

Functions

Click on f(x) to open another trace combining measured values

Define function combining measured values

New trace is now added per defined function

Logging

Files are stored here. They may be viewed graphically or numerically.

Click on log button and logging of values starts
BeamTrack Power/Position/Size Screens

Open Measuring type tab and choose Track

Click on this tab and choose “stability”

Displays beam center wander weighted for dwell time at each position