

Staff Products Interface Program:

A new, easy to use, Staff Products Interface Program is available to down load from our web site. We recommend using the program for all Staff type products listed here.

- ✓ Wave Staff XB Products OSSI-010-025
- ✓ Wave Staff Products OSSI-010-002E
- ✓ Wave Staff III Products OSSI-010-008
- ✓ Wave Logger Products OSSI-010-004E
- ✓ Wave Staff Synchronizer Products OSSI-012-012

Use the Wave Staff All Interface Program to:

- ✓ Display, Plot and Analyze sampled data
- ✓ Configure and Calibrate all units
- ✓ Input Running, Saved or Logged sampled data
- ✓ Save Running data to a file for future analysis

Right click on any active object while running the Interface Program for help.

Output Plotting Tab:

The Output Plotting Tab can be used to plot data from connected units, from saved file or from converted Wave Logged flash card files. All data is time tagged and plotted in real time. Vertical Line Cursors can be used to select a portion of the plot for analysis.

Spectral Analysis Tab:

Plotted Data can be Spectral Analyzed with this tab, with various window operations, data format and scaling. The Mean Water Level and Significant Wave Height are also displayed. A 0.01Hz tide filter can be added to the data if desired.

The screenshot displays the 'Ocean Sensor Systems - Wave Staff XB' software interface, specifically the 'Spectral Analysis' tab. The interface is divided into several functional areas:

- Com Port Control:** Includes a 'Select Serial Com Port' dropdown menu, a 'Local PAN ID (XSTICK)' field with a numeric keypad, and 'Auto Time Sync' and 'Broadcast Power' toggle switches.
- Read File Control:** Features an 'Open File Name' field, a 'File Read Speed: KBytes Per Second' slider, and a 'Position KBytes' slider.
- Wave Staff XB Device:** A table with 7 rows for monitoring device status. Each row includes 'Power Status', 'Network Address', 'Number', 'Rate', 'Date and Time', 'Offset mSec', and 'Data meters'.
- Spectral Plotting:** A graph showing a red waveform. The Y-axis is labeled 'Meters (M)' and ranges from 0.000 to 0.091. The X-axis is labeled 'Frequency Hz' and ranges from 0.00 to 1.00. The plot shows a prominent peak around 0.25 Hz.
- Analysis Control:** A sidebar containing 'Analyze', 'Trace to Analyze' (set to 1), 'X Axis Select' (Full), 'Window Operations' (Flat Top), 'Y-Axis Meters (M)' (Mrms), 'Y-Axis Scale' (Linear), and 'Device Number' (1).
- Summary Metrics:** At the bottom right, it displays 'Y-Axis Units' (Mrms), 'X Axis - Max Freq.' (1 Hz), 'Mean Water Level' (1.693 meters), and 'Significant Wave Height (Hmo)' (0.699 meters).

The Ocean Sensor Systems, Inc. logo and contact information are visible in the bottom left corner.

Configure Wave Staff XB Tab:

Use this tab to select and configure the device for your particular requirements.

Com Port Control

Select Serial Com Port: ASRL12 (COM12 - USB Serial Port) | Local PAN ID (XSTICK): 0000000011111111 | Auto Time Sync: Off | Broadcast Power: On

Read File Control

Open File Name: | File Read Speed: KBytes Per Second: | Position KBytes: | File Position in KB: |

Wave Staff XB Device

Power Status	Network Address	Number	Rate	Date and Time	Offset mSec	Data meters
ON	0013A2004066B373	1	16	2014-04-08T22:53:02	2000	01.0919
ON	0013A2004066B375	2	16	2014-04-08T22:53:02	2000	01.9770
ON	0013A20040995FE5	8	16	2014-04-08T22:53:00	2000	07.9468
ON	0013A2004099605A	7	16	2014-04-08T22:53:02	2000	06.9384
ON	0013A2004099611F	5	16	2014-04-08T22:53:02	2000	04.9587
ON	0013A2004099624E	6	16	2014-04-08T22:53:00	2000	05.9827
ON	0013A2004099B8794	3	16	2014-04-08T22:53:00	2000	02.9325
ON	0013A20040A01F0D	4	16	2014-04-08T22:52:52	2000	03.9799

Output Data Monitoring

Configure Wave Staff XB

Select Device To Configure

Enter Device Number: 1
or Network Address: 0013A2004066B373
Status: Connected
Re-Scan

Changing The Remote PAN

Wave Staff XB PAN ID: 0000000011111111
Save Remote PAN ID

Device Information

Device Number: 1 | Device Part Number: OSSI-010-027A | Serial Number: 13-04-22-001 | Version: 01.00

Sampling

Sample Rate: 16 Hz | Burst Length: 0 | Burst Interval: 2 | Filter: Off | Data Format: Float 32 Samples

Start Time

Start Time: Off | Year: 2000 | Month: 1 | Day: 1 | Hour: 0 | Minute: 1 | Set Start Time

Clock

Year: 2014 | Month: 4 | Day: 8 | Hour: 22 | Minute: 52 | Second: 56 | Delta Seconds: | RTC Cal Value: 0
Manually Set Clock Time | Read | Synchronize Clock to Computer | Compare Time

Power

Power: Off | Battery Voltage: 2.84 | Read

Calibrate

Staff Type: Rod | Length meters: 1.00 | Gain: 1.0000 | Offset: 3.0000 | Low Point: 0.200 | High Point: 0.800
Current Mode: Normal | High | Factory Default | Auto Low | Auto High

Ocean Sensor Systems, Inc. Wave Staff XB Interface Program
Note: Right click on objects for help