

R/V Hugh R. Sharp Reson 7125 Configuration Documentation

Multibeam Advisory Committee
March 22, 2016

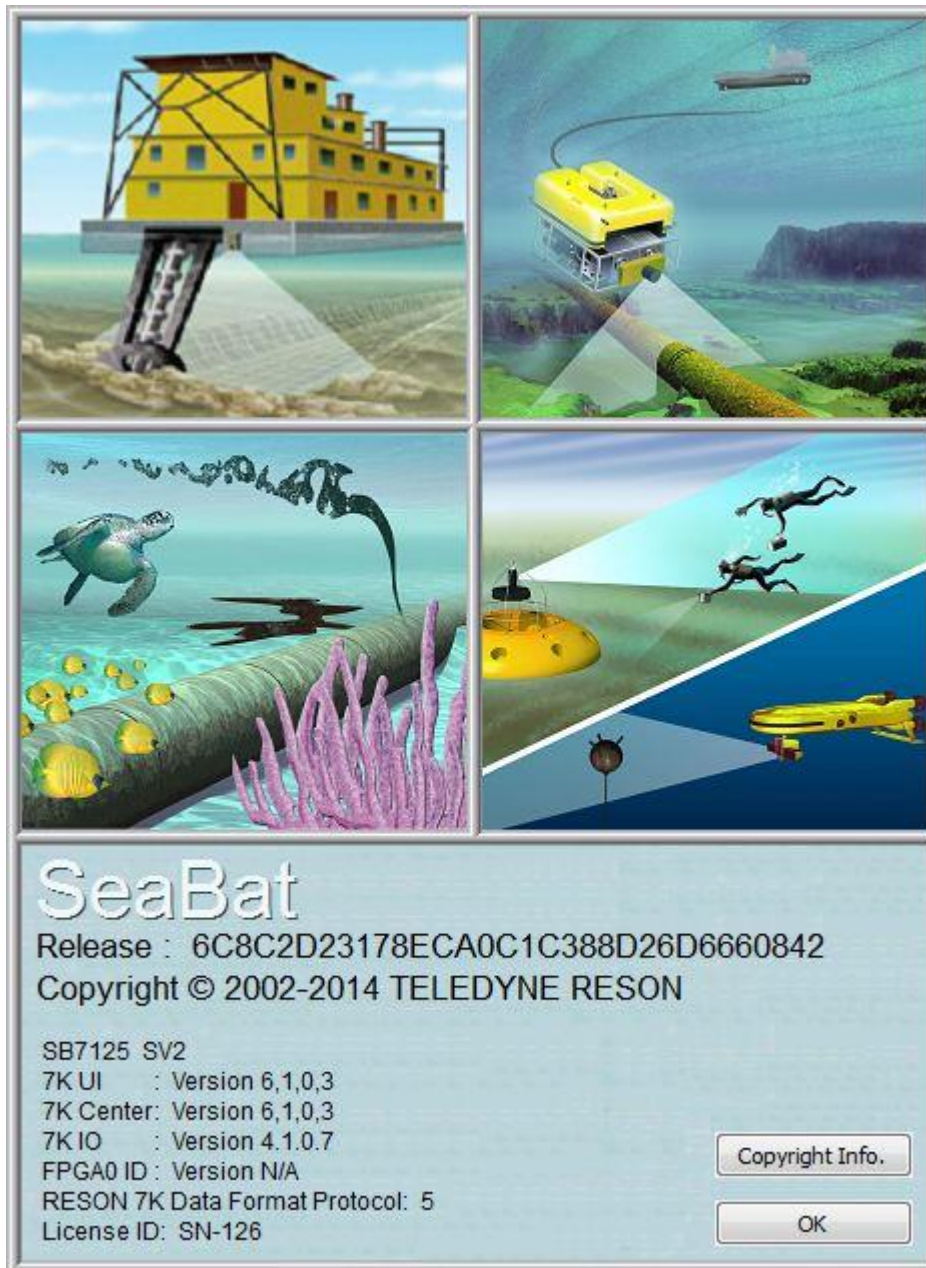
Reson 7125, SV3/FP3



Indicates no change since 2012 MAC visit



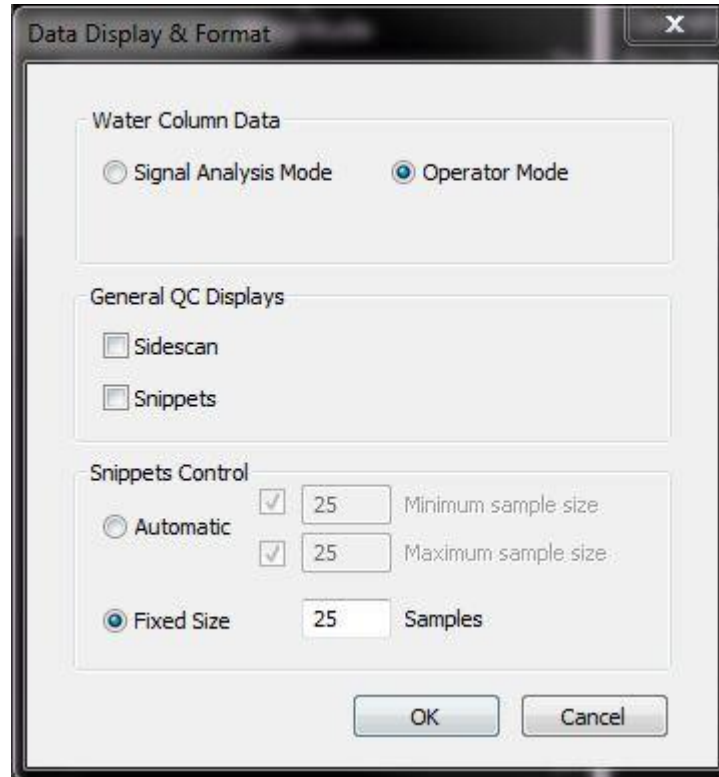
Indicates change since 2012 MAC visit



Access under “Help” menu, choose “About Seabat...”



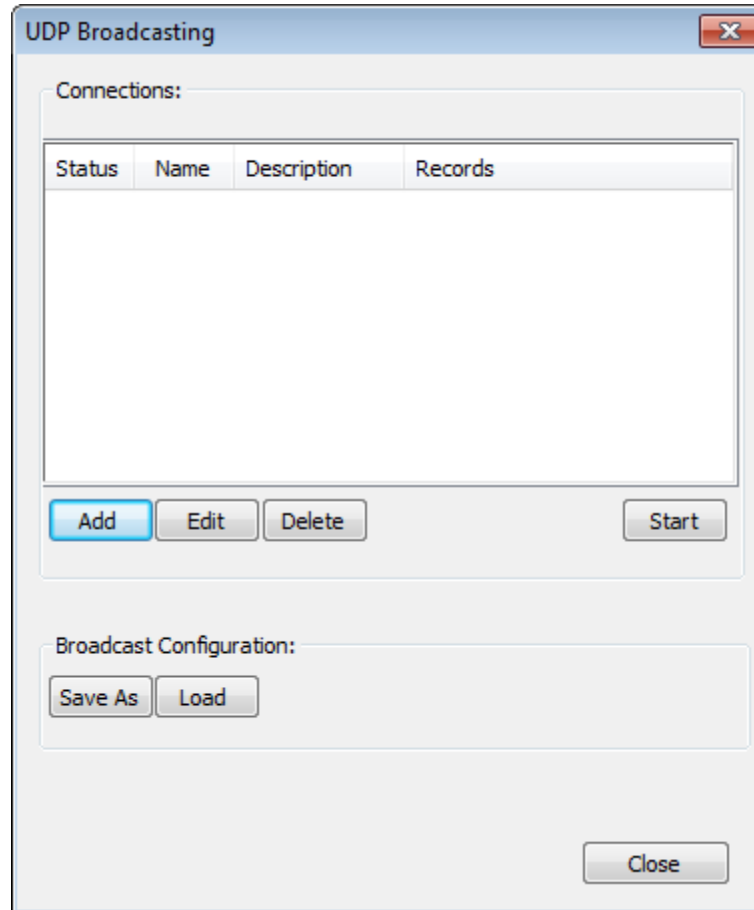
Configuration



Access under "Configuration" menu, choose "Data Display & Format..."



Configuration

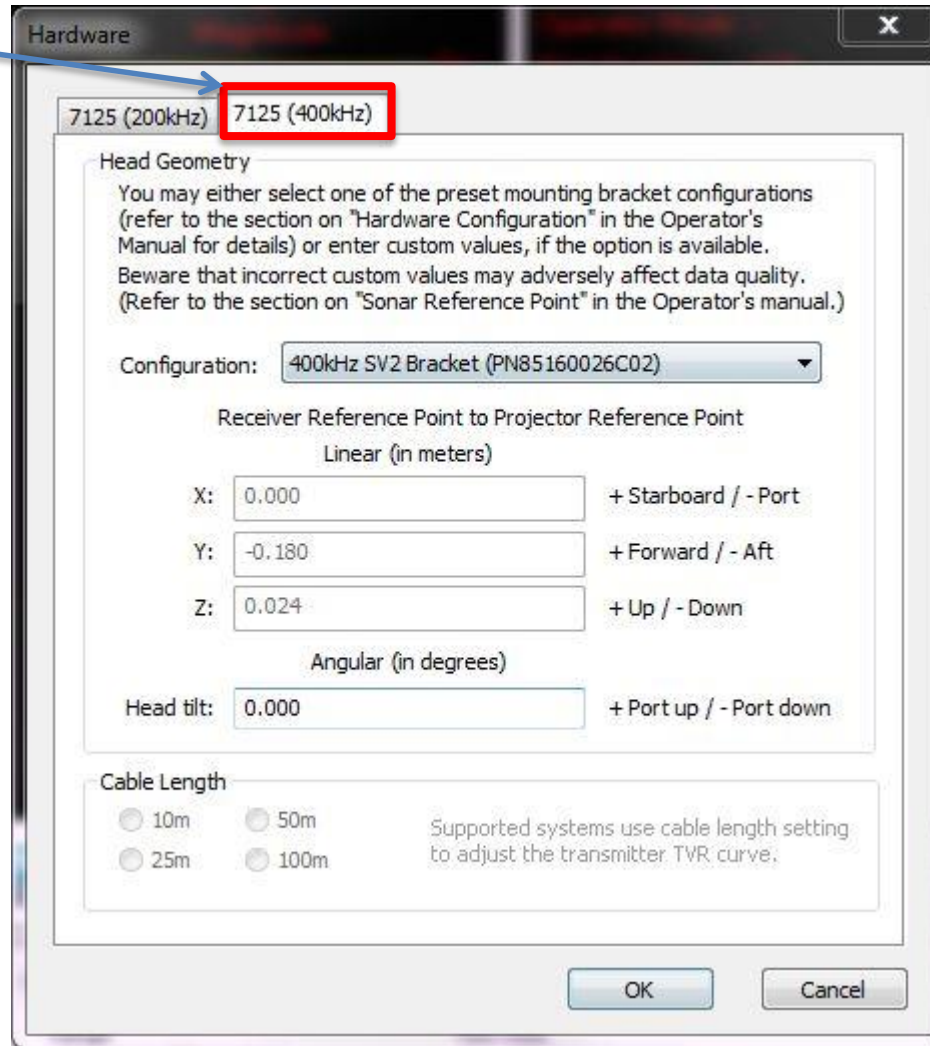


Access under "Configuration" menu, choose "UDP Broadcasting..."



Configuration

Note that these offsets vary with frequency. When running in dual swath mode, you'll see one tab for each frequency (200 kHz and 400 kHz).



Access under “Configuration” menu, choose “Hardware...”



Configuration

Note that these offsets vary with frequency. In dual swath mode, there is one tab for each frequency (200 kHz and 400 kHz).

Hardware

7125 (200kHz) 7125 (400kHz)

Head Geometry

You may either select one of the preset mounting bracket configurations (refer to the section on "Hardware Configuration" in the Operator's Manual for details) or enter custom values, if the option is available. Beware that incorrect custom values may adversely affect data quality. (Refer to the section on "Sonar Reference Point" in the Operator's manual.)

Configuration: 200kHz SV2 Bracket (PN85160026C02)

Receiver Reference Point to Projector Reference Point

Linear (in meters)

X: 0.000 + Starboard / - Port

Y: -0.200 + Forward / - Aft

Z: 0.024 + Up / - Down

Angular (in degrees)

Head tilt: 0.000 + Port up / - Port down

Cable Length

10m 50m 25m 100m

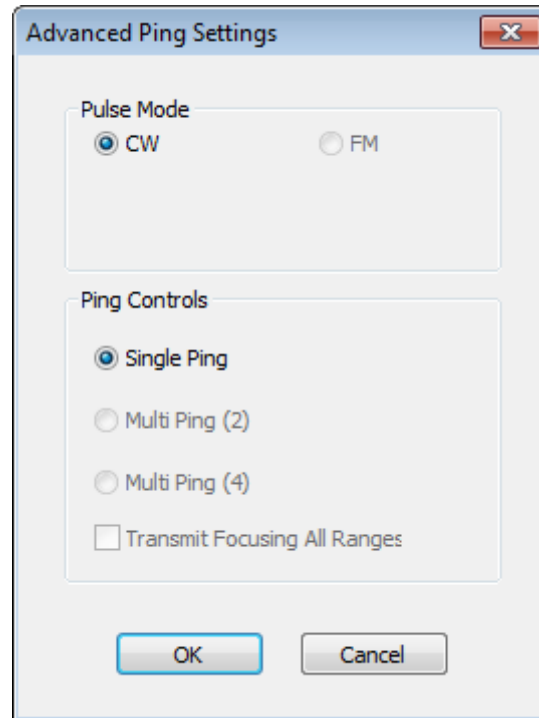
Supported systems use cable length setting to adjust the transmitter TVR curve.

OK Cancel

Access under "Configuration" menu, choose "Hardware..."



Configuration

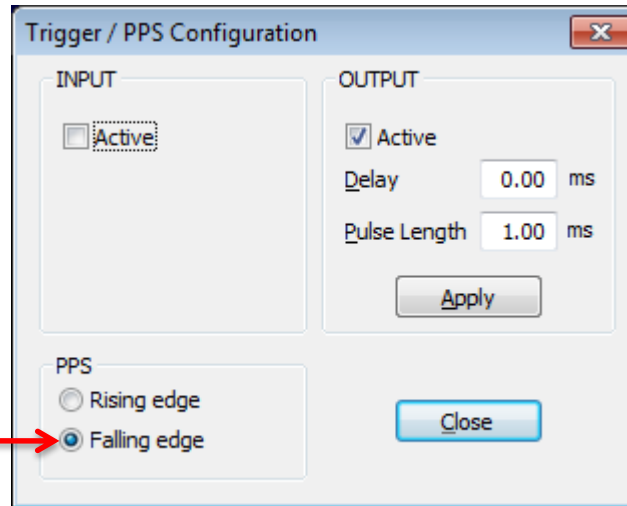


Access under “Configuration” menu, choose “Advanced Ping Settings...”



Configuration

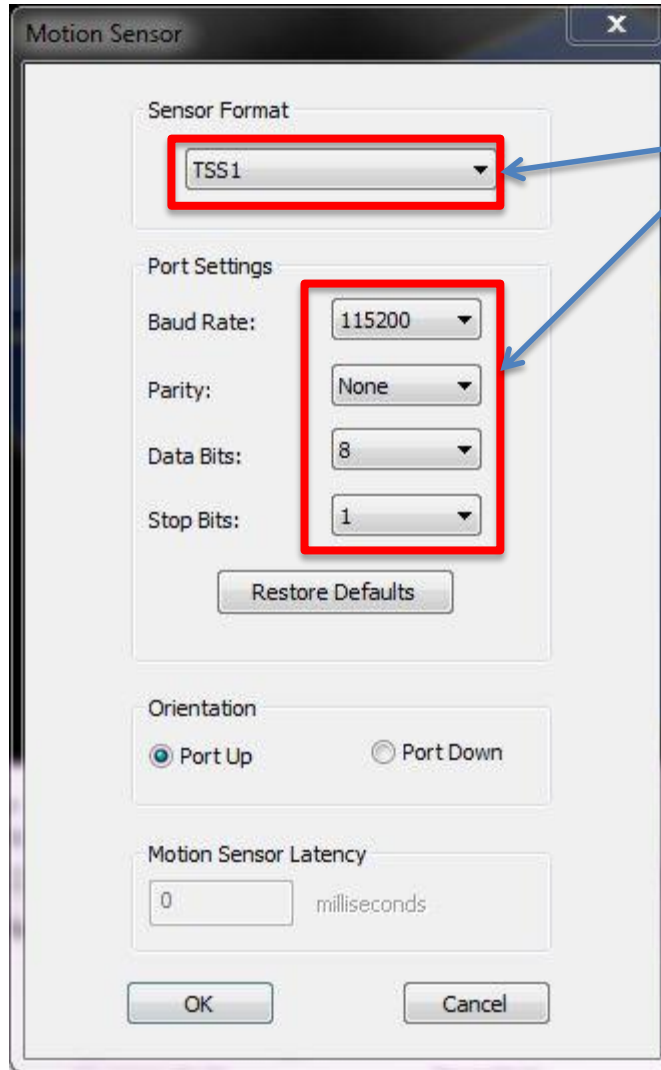
WARNING: This setting must match the PPS output configuration for the POSMV (which is itself user-configurable)



Access under “Configuration” menu, choose “Triggering...”



Configuration



These need to match what the POSMV is outputting on COM4.

Access under “Configuration” menu, choose “Motion...”



Configuration

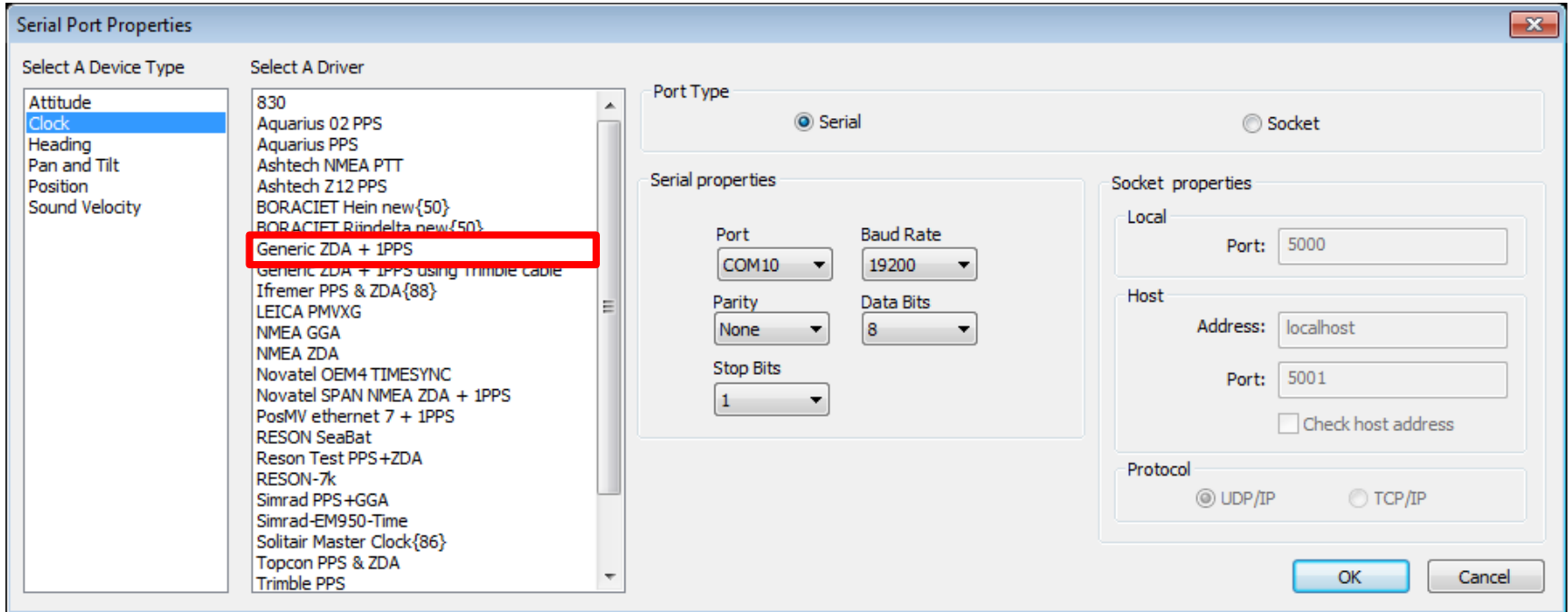
The screenshot shows the SeaBat software interface with the following elements:

- Menu Bar:** General, Configuration, System, Normalization, Help
- Primary Display:** - 200kHz, Primary Display - 400kHz, BITE [00], Motion, Side Scan, Snippets
- Operator Mode:** \
- Parameters:** Ping Number: 22095, Range: 5.0 m, Power: 0.0 dB, Gain (Ping R):, Pulse V:, Pulse
- Roll Stab:** ON
- Tracker:** OFF
- Quality Filter:** OFF
- Device List:** Clock,Generic ZDA + 1PPS,COM10,BaudRate=19200,DataBits=8,Parity=None,StopBits=1; Sound Velocity,RESON SVP70 AML,COM3,BaudRate=19200,DataBits=8,Parity=None,StopBits=1
- RESON NO ALARM** indicator
- Buttons:** IPPS - Freeze, Normalization Max, Mode Manual, Across Track: ---, Depth: ---, Range: ---, Enable Tracker
- Bottom Tab Bar:** Main Sonar Settings, Detection Settings, Ocean Menu, Primary Display Settings, Data Recording, Screen Recording, I/O Module Setup (highlighted)
- I/O Module Setup Panel:** Device List (highlighted), Controls (New, Edit, Remove, QC), Connected. (highlighted), leap second driver list size 6, Clear Status Display

I/O Module Setup tab



Configuration



Configuration

Serial Port Properties

Select A Device Type

- Attitude
- Clock
- Heading
- Pan and Tilt
- Position
- Sound Velocity

Select A Driver

- Ifemer Pourquoi Pas{88}
- Manual-Input
- MicroCAT SBE37
- RESON SVP 70 AML
- RESON SVP-C
- RESON-7k
- RESON-7k-QC
- SBE45 Thermosalinograph
- SBE45 Thermosalinograph format X
- SeaKing SCU Bathy
- Smart Probe
- Smart Probe with depth sensor
- Soundvelocity Sim
- Valeport midas SVX2
- Valeport miniSVS
- Valeport miniSVS mm
- Valeport miniSVS with pressure sensor
- Valeport miniSVS-SM4{331}

Port Type

Serial Socket

Serial properties

Port: COM3 Baud Rate: 19200

Parity: None Data Bits: 8

Stop Bits: 1

Socket properties

Local: Port: 5000

Host: Address: localhost Port: 5001

Check host address

Protocol

UDP/IP TCP/IP

OK Cancel

Questions? Feedback? Suggestions?

- Please email us:
 - mac-help@unols.org