

Rowe Technologies Inc. [www.rowetechinc.com] located in Poway, CA is excited to introduce three new multi-frequency product offerings that employ advanced 3rd generation **Rowe Technologies ADCPs** [aka ADCP3]. These fully integrated, Multi-Frequency ADCP's provide the measurement capability of 2 single-frequency ADCP's in one package. Additionally, measurements of sediment concentration and grain size estimation are provided – these measurements are not offered by other ADCP manufacturers.

The three new dual frequency systems are shown below:

1. **Sea SURVEYOR** -- Single or Dual-Frequency operation in a single-phased array transducer (patented). These ADCP systems provide High-Resolution Current Profiles in the upper coastal ocean and Long-Range Current Profiles in deep ocean.
2. **River SURVEYOR** -- The Multi-Frequency River SURVEYOR ADCPs employ advanced 3rd generation Rowe Tech ADCP technologies. This product provides Dual-Frequency Bottom Track, Current Profile, and Altitude measurements as well as Quad or Triple Target Strength measurements for Sediment Concentration and Grain Size estimation.
3. **River MONITOR** -- Rowe Tech's new Multi-Frequency River MONITOR ADCPs measures horizontal profiles of flow velocity and river stage, plus Triple-Frequency horizontal profiles of Target Strength sediment estimation from a single instrument.

The **Sea Surveyor** ADCP offers the following features and benefits:

- ☐ Single or Dual-Frequency operation in a single-phased array transducer (patented) ADCP system providing:
 - High-Resolution Current Profiles in the upper and coastal ocean
 - Long-Range Current Profiles in deep ocean
- ☐ RTI's proven Doppler Signal processing and advanced Bottom detection algorithms
 - Narrowband for longer range
 - Multiple Broadband modes and bandwidths
- ☐ ± 1% Current and Bottom Velocity accuracy
- ☐ High accuracy Dual-Frequency echo intensity for plankton particle size distribution calculation over overlapping profiling range
- ☐ Host Computer control of Profiling Range/Precision Multi-Mode operation and Application Specific post signal processing

The **River Surveyor** ADCP offers the following features:

- Multi-Frequency ADCP with overlapping inclined Dual-Frequency 4-beam sets and Dual-Frequency vertical beams.
- Dual-Frequency piston transducers
- Precision inter-frequency calibrated acoustic transmit and echo reception of Triple or Quad-Frequency beams
- Real-Time automatic multi-mode optimization of multiple frequency, bin sizes, Multiple-Frequency pings, transmit levels, Broadband, Narrowband and pulse-to-pulse coherent modes.
- DP-Pro Q software.
- Optional trimaran and autonomous USV with integrated radios and DGPS.

The **River Monitor** ADCP offers the following features:

- Triple [600kHz, 1200kHz, and 2400kHz] frequency horizontal beams, inter-frequency calibrated transmission and echo reception.
- Ultra-narrow 1200kHz slant beams.
- User-programmable or fully automatic transmit levels, Broadband, Narrowband and Pulse-Pulse Coherent operation.
- Real time data quality monitoring.
- Continuous built-in-test of transduce and electronics plug-in replaceable modules.
- Vertical beam and pressure sensor.
- Optional high capacity (512 GB) internal data recorder.
- Optional software for collection of “raw” Target Strength data.