

Express ADCP - Frequently Asked Questions

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Q: What is Express?

A: Express is a special configuration of features offered on select models of Teledyne RD Instruments' Acoustic Doppler Current Profilers.

Q: What models are available in Express configuration?

A: The Express Configuration is available ONLY in 1200kHz Self-contained, 1200kHz Direct-reading, 600kHz Self-contained, and 600kHz Direct-reading models, all 200m depth-rated. No other configurations or depth-ratings will be offered.

Q: Why Choose Express?

A: The Express configuration is offered to economically fill the needs of customers whose applications involve collection of only basic current profile measurements at fixed locations. The Express configuration is especially well-suited for situations requiring a general understanding of the current or backscatter structure, with little need for fine-tuning or the flexibility to optimize the ADCP for changing circumstances or applications. The Express offers a unique entry-level option for those with limited needs and budget, but incorporates TRDI Broadband performance with proven equipment and data reliability.

Q: What about performance?

A: The Express has performance characteristics that are substantially similar to those of standard Workhorse, for the same set-up choices. Profiling range, ensemble standard deviation and energy use are all similar to standard Workhorse (see PlanExpress software for calculations).

Q: How is the Express different from the Workhorse?

A: The Express configuration offers an abbreviated selection of set-up choices (sampling intervals, cell sizes, etc) which address the most common fixed-site requirements (see the information sheet comparison tables). The Express configuration offers good velocity accuracy (0.8%), while being not quite at the documented standard of the Workhorse (0.3%). There are only a few feature options available for the Express; a choice of memory size and pressure sensor rating. The Express Configuration includes its' own PlanExpress and WinSCEXpress versions of TRDI Windows-based software.

Q: Is Express a replacement for Workhorse?

A: No. The TRDI standard Workhorse product line remains the most capable, reliable and best performing family of Acoustic Doppler Current Profilers available. The TRDI standard Workhorse product line will continue to evolve, to expand flexibility and adapt to emerging applications.

Q: How can Express be upgraded to have more features?

A: A significant advantage of the Express is the ability to economically acquire an entry-level configuration which, if the situation changes, can be upgraded to standard Workhorse capability without return to the factory. Advanced applications, such as moving boat surveys, turbulence studies or even directional waves measurement, can all be accommodated by contacting TRDI customer Service, arranging for user-installable upgrades (see the information sheet comparison tables).

Q: Is Express compatible with standard Workhorse parts and accessories?

A: The Express configuration ADCPs are fully-compatible with standard Workhorse parts and accessories (Battery Packs, External Battery Cases, Cables, Frames, etc.). The general characteristics: Outline/Installation drawings, Weights & Dimensions, Sensor Specifications, etc., are all the same as the standard Workhorse models.



Q: When can I get one...or more..?

A: The Express configuration is immediately available. Manufacturing lead times should be 30 days, or less, depending on stocking levels at the time of order.