

CEE HydroSystems Complete Delivery of Six RTK CEESCOPE™ Echo Sounder Systems for Royal Australian Navy

CEE HydroSystems recently completed the delivery of several CEESCOPE™ 200 kHz single beam echo sounder survey systems for the Royal Australian Navy (RAN) hydrographic group based in Cairns, Australia. The state of the art CEESCOPE™ ultra-compact waterproof single beam 200 kHz sonar systems were supplied with built in RTK GNSS receivers, UHF radio, and activated L-Band subscription differential corrections to give the Navy surveyors maximum flexibility in terms of their satellite positioning solution. Replacing their existing and ageing CEEDUCER™ echo sounders, the latest CEESCOPE units will be used for near shore littoral Rapid Environmental Assessment (REA) surveys. For example, a REA may be needed to facilitate safe navigation of a large vessel in unfamiliar waters such as when delivering emergency aid. The REA surveys may call for use of a vessel of opportunity, with limited existing survey infrastructure, leading the survey team to select the CEE echo sounder that specifically is designed with rapid mobilization in mind. The RAN's Deployable Geospatial Support Team and hydrographic training school based at HMAS Penguin in Sydney Harbor will also be using the new CEESCOPE echo sounders for routine surveys and training missions, primarily on the Navy's 14 ft LUB's (Light Utility Boat). In RTK mode, the CEESCOPE will communicate directly with Trimble RTK base stations used by the RAN for centimeter precision on detail surveys close to existing infrastructure; L-Band corrections or autonomous positioning will be adequate for remote or REA navigation operations.





Along with the CEESCOPE echo sounders, acquisition software HYPACK® MAX gives the RAN surveyors a high-specification acquisition package making use of the CEESCOPE's water column echo envelope data for real time quality control, one of several improvements realized over the previous CEEDUCER echo sounder used by the RAN until 2015. Replacing the CEE HydroSystems signature bright yellow enclosures with a more discreet packaging was the only modification needed to meet the stringent RAN ruggedness and reliability criteria.

To learn more, visit:

www.ceehydrosystems.com