# EA440SP

KONGSBERG

EA440

- Applications from 0.2 m to 3000 m water depths
- High performance hydrographic depths observations from 30 kHz to 500 kHz
- Sidescan sonar application from 100 kHz to 500 kHz
- Sub-bottom profiler application from 10 kHz to 30 kHz
- Available with high power output from 30 kHz to 50 kHz
- Extensive range of transducer interfaces, both Kongsberg transducers and third-party transducers
- Splash proof all-in-one hardware setup available
- CW and FM pulse forms
- True raw data logging
- World class bottom detection
- Map display to track your coverage

# Portable splashproof hydrographic echo sounder

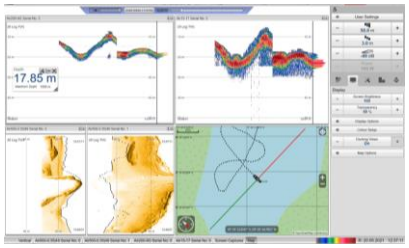
THE EA440SP IS A SPLASHPROOF VERSION OF THE STANDARD EA440, MAKING IT THE PERFECT PORTABLE ECHO SOUNDER FOR SURVEYING IN SHALLOW DEPTHS IN SMALL AND OPEN BOATS

EA440 is a high performance hydrographic wide band single beam echo sounder. The echo sounder is developed for hydrographic use in shallow to medium depth waters.

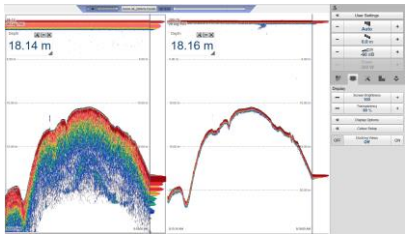
The EA440SP consists of a Wide Band Transceiver (WBT) housed in a rugged and splashproof protective suitcase with a computer. The computer can be delivered as a standard laptop or a rugged IP rated laptop or notepad.

## The EA440 Wide Band Transceiver - WBT

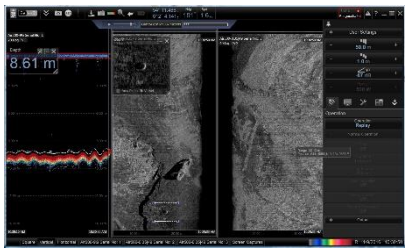
- The 4-channel standard WBT transmits and receives data simultaneously on 4 channels, ranging from 10 kHz to 500 kHz. The channels can be configured in a variety of ways, allowing for different applications and/or redundancy.
- The WBT communicates with a standard Windows 10 computer running the EA440 software via an ethernet link. Several WBTs with different configurations can be used.
- The WBT is opened for applicable transducers using license management. Licenses can be added by the user by a license code provided by Kongsberg Maritime Support.
- The WBT is powered by a 12-15 VDC power supply.
- Wide band frequency sweep (FM) in combination with advanced signal processing gives an exceptionally good signal to noise ratio and range resolution.



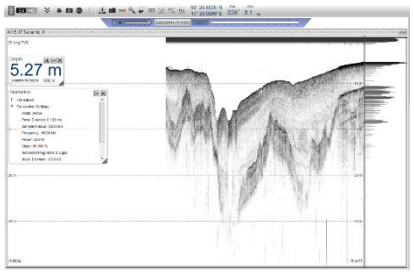

EA440 software with echogram and map view




EA440 echogram view at 38 kHz and 200 kHz




EA440 sidescan sonar and hydrographic depth view




EA440 15 kHz sub-bottom data

EA440SP connections

## Ease of use

The EA440 software will configure, operate, log and monitor your complete survey. The map view will provide vessel track and sidescan coverage.

For small or open boat operation, the EA440 splash proof setup may be a preferred solution. Using the splash proof solution, you can connect the transducer at the back side of the box and connect the computer via the LAN port, also at the back side of the suitcase. Position and heading are connected to the serial port of the computer. The complete solution is powered by 12 VAC.

## The choice of transducers and licenses is the key

EA440 provides high-precisions depth measurements from very shallow waters down to approximately 3000 m water depths. Range and accuracy depend on selection of transducers.

In addition to the depth measurements, the EA440 can by the correct choice of transducer be used for other survey applications:

- Sidescan sonar survey for seabed imaging
- Sub-bottom profiling of the upper sediment layers

For ease of transducer installation, a tailor-made bracket for the abovementioned combination of transducers is available


Sidescan, sub-bottom and depth transducers setup on tailor-made bracket

## TECHNICAL SPECIFICATIONS

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|---|---|
| Weight and dimensions | - Depth: 386 mm<br>- Width: 488 mm<br>- Height: 190 mm<br>- Weight: 11 kg |
| Power specifications: | Voltage requirement: 12 to 15 VDC, 5A<br><br>A suitable power supply for 220/110 VAC operation is provided with the delivery |
| Environmental specifications | Operational temperature: 0 to 50°C<br><br>Storage temperature: -40 to 70°C<br><br>Relative humidity: 5 to 95% relative non-condensing<br><br>Suitcase when closed: IP56<br><br>Rugged PC: IP65 |

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