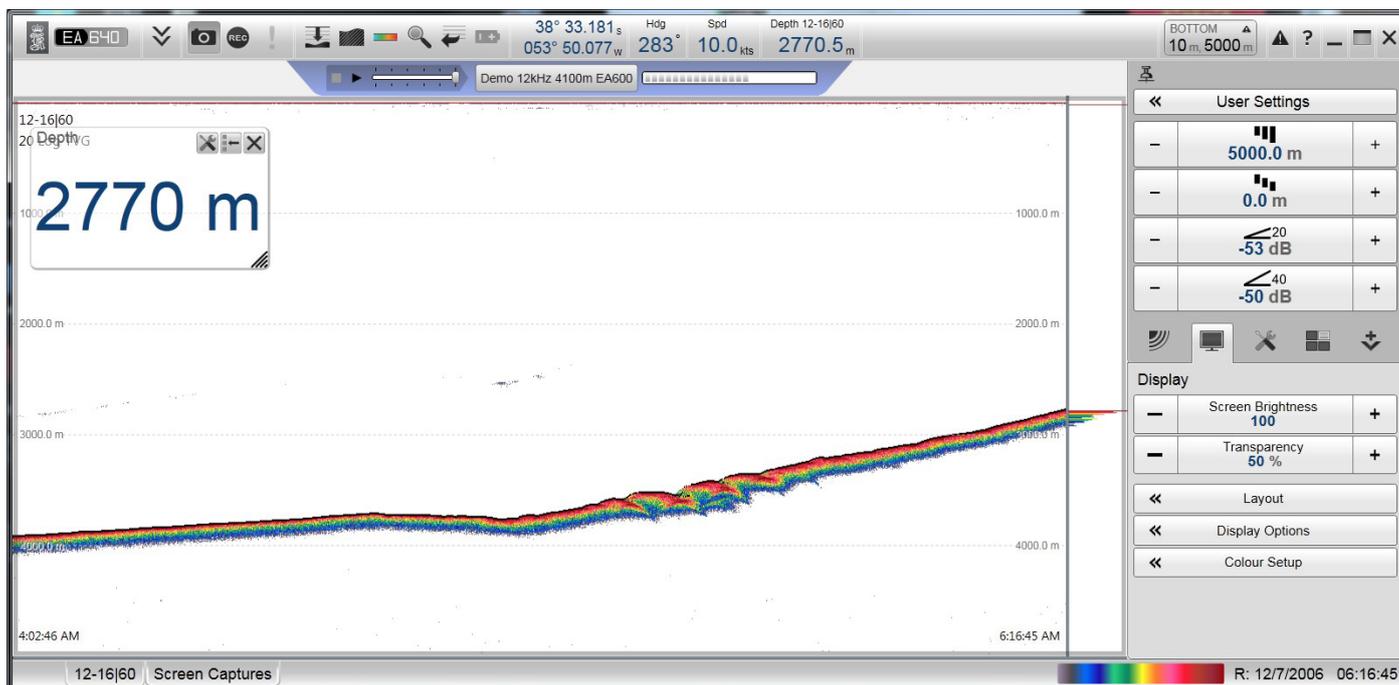


EA640



KONGSBERG



NEW GENERATION WIDE BAND HYDROGRAPHIC ECHO SOUNDER

EA640 is a high performance hydrographic wide band single beam echo sounder. The echo sounder is developed for hydrographic use in deep to medium depth waters.

Easy to operate

The EA640 has been designed for the professional hydrography community. For maximum flexibility and ease of operation, the EA640 echo sounders uses the Microsoft Windows® 7 operating system. The EA640 software can be run on any Windows compatible commercial computer.

System functionality

Wide band frequency sweep (FM) in combination with advanced signal processing gives an exceptionally good signal to noise ratio and range resolution. With previous CW echo sounders range had to be sacrificed for resolution.

Replay and storage

The EA640 offers internal storage of all raw sample data. This includes all external input sensor data for replay purposes. A highly flexible processing regime makes it possible to log high density complex raw data for advanced post-processing.

Individual screen presentation

You can set up the display picture to suit your special needs. You can choose different windows on the screen for echogram, A-scope and digital depth. You can even control all the functions in the EA640 with just a click on the screen. These functions include comprehensive context sensitive on-line help. Save your favourite settings and call them back when you need them.

Highly flexible channel set up

Up to eight high-power transceivers can operate simultaneously from the EA640. For improved performance, they are installed close to the transducers and linked to the combined display and processor with a single data cable. Available frequencies span from 10 to 500 kHz.

System software

The EA640 will continuously be updated on a regular basis. New software releases will be available to download free of charge from the Kongsberg web.

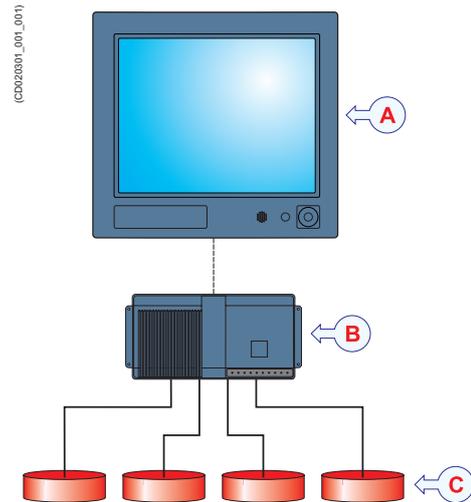
KEY FEATURES

The EA640 is a high precision hydrographic echo sounder.

- Multiple applications Hydrographic, sidescan and sub-bottom light
- Up to eight simultaneous channels
- Frequencies from 10 kHz to 500 kHz
- Deep water frequencies 12 and 18 kHz
- CW/FM pulse forms
- Easy to install on Windows 7 computers
- Roll, pitch and heave compensation
- True raw data logging
- World class bottom detection

Tranceiver types:

- WBT high power: 2 channels, range from 10 to 50 kHz, power 2 kW
- WBT standard: 4 channels, range from 10 to 500 kHz, power 500 W
- The EA640 also supports the General Purpose Tranceiver (GPT)



- A. Hydrographic Operator Station (panel computer with integrated display)
B. Transceiver Unit (Wide Band Transceiver (WBT))
C. Transducer

TECHNICAL SPECIFICATIONS

Performance specifications

Pulse lengths and maximum resolution

- 500 kHz: CW 32 - 512 μ s, FM, resolution: 0.6 cm
- 200 kHz: CW 64 - 1024 μ s, resolution: 1.2 cm
- 38 kHz: CW 256 - 4096 μ s, resolution: 4.8 cm
- 18 kHz: CW 512 - 8192 μ s, resolution: 9.8 cm
- 12 kHz: CW: 1 - 16 ms, resolution: 19.6 cm

Range

- Display range: 1 to 12,500 meter
- Transducer range: 10 to 500 kHz

Ping rate

- Maximum 20 per second

Sound speed

Manual (1400 to 1700 m/s)

- Calculated from temperature and salinity
- Calculated from temperature sensor and salinity
- Read from sound speed probe

Interfaces

- Transceiver: Ethernet communication
- Optional interfaces:
 - Ethernet to ships' network
- Sensors: GPS, gyro, motion, speed, temperature and sound speed
- Export file formats: See Interface specifications
- Depth output: See Interface specifications
- Remote control: Remote start/stop logging available on serial or network

User interface

- Operating system: Microsoft® Windows® 7
- Main control: Mouse or track ball on a comprehensive menu system
- Menu languages: English, French, Icelandic, Norwegian, Spanish, German

Supported datagram formats for depth output:

DBS, DBT, DPT, Simrad, Atlas and Hymas

Export file formats:

Raw data, xtf, SEG-Y, xyz, echogram and EA400 format

Weights and outline dimensions

Transceiver Unit, type Wide Band Transceiver (WBT):

Outline dimensions:

- Depth: 213 mm
- Width: 438 mm
- Height: 84 mm

Weight: Approximately 5 kg

Power specifications

Transceiver Unit, type Wide Band Transceiver (WBT):

- Voltage requirement: 12 to 15 Vdc, 5A

A suitable power supply for 230/115 Vac operation is provided with the EA640 delivery.

Environmental specifications

Transceiver Unit, type Wide Band Transceiver (WBT):

- Operational temperature: 0 to +50 degrees Celcius
- Storage temperature: -40 to +70 degrees Celcius
- Relative humidity: 5 to 95% relative non-condensing

Specifications subject to change without any further notice.

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