# ECHOTRAC E20

## Hydrographic Echosounder for demanding 24/7 use

The new ECHOTRAC E20 is the result of more than 40 years of experience in precise echosounding and market leading sonar technology.

A portable, compact and robust echosounder designed for survey in all environments allowing you to maximize your utilization of the equipment and reducing your costs by having one unit for all applications.

Easy to use and fast to mobilize, the E20 allows you to begin your survey rapidly, delivering accurate results first time, every time. The E20 saves time and enables you to get results faster.

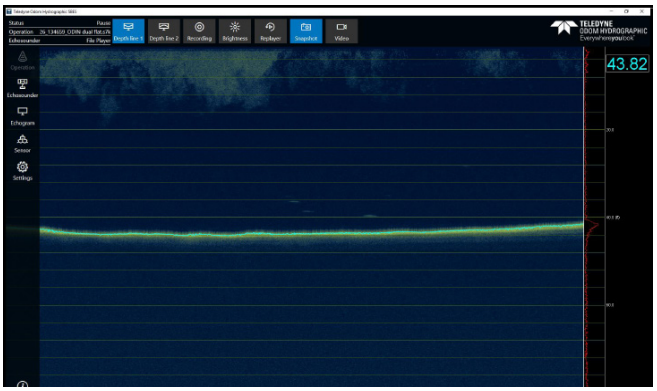
The ECHOTRAC E20 completes our portfolio of sonar solutions introducing yet another groundbreaking innovation into the day-to-day work life of our customers.


### E20 product features

- 1 or 2 frequency agile channels from 10 to 250kHz
- 0.5 to 6,000m depth range
- Ruggedized and shock-proof, water resistant IP67

### Product benefits

- Precise and reliable survey data for shorter data processing time, enabling you to complete your project faster.
- Dual channel survey echosounder from very shallow to deep sea, from 10 kHz to 250 kHz – giving you the flexibility for all your survey projects, maximizing utilization of your investment.
- The compact system with minimal interfacing effort, allows for fast mobilization, and extremely low space to go anywhere, enabling you to start work immediately.
- Intuitive user interface, easy to use, so you can focus on the job at hand.
- The ECHOTRAC E20 is compatible with a broad range of transducers with straightforward transducer interfacing.




*The new SBES UI operator software is being used to operate the ECHOTRAC E20 in shallow water at 200kHz*

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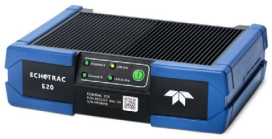

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## TECHNICAL SPECIFICATIONS

| | | Single channel | Dual channel | Dual channel Extended Range |
|---|---|---|---|---|
| Operating frequency: | HF channel 10 to 250Khz, optimized for 50-250kHz | | | |
| | LF channel 10 to 250khz, optimized for 10-50kHz | | | |
| Channels: | | Single[1] | Dual | Dual |
| Accuracy and Resolution: | | | | |
| | 200kHz: | 1cm resolution and 2cm +/- 0.1% of depth accuracy | | |
| | 33kHz: | 5cm resolution and 10cm +/- 0.1% of depth accuracy | | |
| | 12kHz: | 12kHz: 15cm resolution and 15cm +/- 0.1% of depth accuracy | | |
| Depth Range[2]: | | | | |
| | 200kHz: | 0.5 to 250m | | 0.5 to 400m |
| | 33kHz: | 1.0 to 1,000m | | 1.0 to 3,000m |
| | 12kHz: | 3.0 to 1,000m | | 3.0 to 6,000m |
| Max ping rate: | 50Hz | | | |
| Pulse type: | | CW | CW | CW and FM (chirp) |
| Output power: | Typically max output power varies between 1 and 3kW, depending on transducer | | | |
| Input power: | 10-30VDC, 100-230VAC[3] , max 50W | | | |
| Data output: | Via LAN interface: For each channel the measured depth and full amplitude-time echogram, passed through auxiliary sensor data, s7k data protocol. Via serial port: For each channel the measured depth | | | |
| Transducer interfaces: | Impedance: minimum 50 Ohm, Max power: 15W per channel RMS | | | |
| | Single-connector TX1 for dual transducer | | | |
| | Two separate connectors TX1 and TX2 for separate transducer cables | | | |
| Interfaces: | 3 serial connectors (RS-232): | | | |
| | Input: GPS position and time, heave, motion, heading | | | |
| | Output: depth | | | |
| | 1 Ethernet LAN connector | | | |
| | 1 sync connector | | | |
| Dimensions H x W x D: | 83.0mm x 300.0mm x 221.0mm | | | |
| Weight: | 5.7kg (excl. external cables and transducers) | | | |
| Environmental conditions and ingress protection: | Temperature Operation (Storage): -20°C to +55°C (-30°C to +70°C) | | | |
| | IP67, Vibration, Drop: Complies with standard EN 60945 §8.7 and §8.6 | | | |

[1]The E20 SC single channel can utilize both channels, but not at the same time.
[2]The depth values are based on the performance of TC2122 for 200 and 33kHz, and HM210/12-8/20 for 12kHz. Stated depth ranges may be impacted by environmental conditions, vessel installation, and motion
[3]External AC power supply is included and intended for dry installation (not IP67 compliant).


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