

SoundTrap ST440

Four Channel Sound Recorder

Key features:

- 4 x individual wet plugs for HTI hydrophones
- Selectable 1 to 4 channel recording
- Bandwidth 20 Hz - 150 kHz
- 384 kHz x 4 channel sampling
- 4 x microSD provide up to 2 TB of removable data storage
- Up to 8 days continuous 4 channel recording
- Delrin housing with 200m depth rating



The SoundTrap ST440 is a four-channel digital acoustic recorder intended for ocean acoustic research. Its unique ability to record synchronous high bandwidth audio on four channels make it ideal for creating tetrahedral or linear arrays. Applications include towed linear arrays for MM transect surveys.

The ST440 records signals from up to four HTI hydrophones connected via the four wetplugs on the base of the recorder. The hydrophones are the pre-amplified type, meaning long cables can be used to enable array spacing's of several meters. HTI hydrophones can be specified with various gain and bandwidth options.

The ST440 requires 2 18650 lithium ion rechargeable batteries and can accommodate up to 2TB of microSD memory, delivering up to 8 days of continuous recording. The batteries and memory are field swappable, allowing for fast turnaround in the field.

Output files are in the industry standard multi-channel WAV format. The included software offers flexible deployment options for channel selection, sample rate, delayed start and duty cycle.

Detailed Specifications

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| Hydrophones | Not included. To be purchased separately from High Tech Inc, USA. Recommended: HTI-96-MIN/3V/Low Noise/SoundTrap/-165dB or HTI-99-HF/3V/Low Noise/SoundTrap/-165dB |
| Bandwidth | 20 Hz - 150 kHz \pm 3dB |
| Sample rates | 384, 192, 128, 96, 64, 48, 32 kHz |
| ADC's | 4 x 16-bit SAR |
| Calibration | Self-calibration check |
| Memory | 4 Slots for up to 4 x 512GB removable SDXC cards for up to 2TB total (Stores up to 6TB wav data due to advanced loss-less compression) |
| Battery | 2 x Panasonic NCR18650B Lithium Ion 18650 cells. Provides up to 8 days continuous operation depending on sample rate. Batteries not included. |
| Housing | Delrin. Maximum depth is 200m. Dimensions: 240mm Long x 64mm Diameter (excluding connector dummy) 1 Weight: 0.75 kg in air with 2 batteries loaded |

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