TR-ORCA PRODUCT FAMILY

UNDERWATER ACOUSTIC RECORDING AND SIGNAL PROCESSING

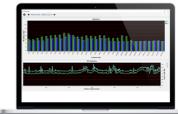




Now you can capture, record and process, in real time, extremely rich underwater acoustic data sets. The TR-ORCA is available in full size and mini versions, both supporting five synchronously sampled hydrophone inputs, configurable sampling rates and internal solid state storage.

The TR-ORCA is easy to use, deploy and configure, and is flexible enough for almost any underwater acoustic measurement scenario. Applications include underwater noise characterization, marine mammal studies, underwater detection and localizations.

Your data can be recorded & processed autonomously or streamed in real time via Ethernet, or wirelessly with our TR-FLOAT unit.







KEY FEATURES

- MULTIPLE SYNCHRONOUSLY SAMPLED Input Channels
- FLEXIBLE SAMPLING RATES from 24 KHz to 768 KHz
- DEEP SOLID STATE RECORDING for Reliability
- LOW POWER CONSUMPTION for Long Deployments
- REAL TIME DATA STREAMING or Messaging over Ethernet or Serial Interfaces

TECHNICAL SPECIFICATIONS

POWER

Internal Power: Alkaline D Cells (user replaceable)

External Power: 10-30 V DC

ANALOG INPUT CHANNELS

Number of Channels: 5 - Standard (more available on request)

ADC Number of Bits: 16 - Standard (24 bit version available on request)

Sampling Rates Supported:

24 KHz, 48 KHz, 96 KHz, 192 KHz, 384 KHz, 768 KHz

HYDROPHONE OPTIONS

Universal micro circular connectors for most hydrophones

Hydrophones mounted on end cap, or connected with custom cable lengths

Customized sensitivities and bandwidths available on request

MEMORY

2x 512 GB SD Card and up to 2 TB SSD

Configurable recording, schedule and duty cycling

COMMUNICATIONS

Ethernet - Programming & Live Streaming

High Speed USB for Download

RS422

ENVIRONMENTAL

200m or 1000m depth rated (deeper available on request)

Operating Temperature: -10°C to +50°C

*Specifications subject to change without notice

PRODUCT APPLICATIONS

- Acoustics Detection, Localization and Classification
- Marine Mammal Studies and Real Time Monitoring
- Multi Sensor Ocean Observation
- Ambient Noise Monitoring
- Wind and Tidal Renewable Energy Monitoring







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