RS AQUA

ORCA

Multi-channel passive acoustic recorder

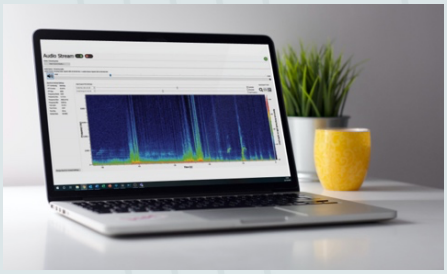
Orca is a broadband underwater acoustic recorder that supports multiple hydrophone channels and extremely high sampling rates.

Easy to deploy and configure, *Orca* applications include underwater noise characterisation, marine mammal studies, and submarine vehicle integration.

Orca can record and process data internally, or stream over Ethernet.

KEY FEATURES

+ Up to 5 Synced Hydrophone Channels
+ Flexible Sampling Rates From 24kHz To 384kHz
+ Up To 4TB Internal Memory
+ Long Term Deployments
+ Real Time Data Streaming



TRAC SOFTWARE

TRAC is Orca's proprietary configuration, analysis and display software. TRAC presents digital multichannel acoustic data including real-time spectrograms, third octave plots with percentiles, and live real-time audio.

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TECHNICAL SPECIFICATIONS

*Specifications subject to change without notice

POWER

Orca 72D: 72 Alkaline or Lithium D cells

Orca Ace: Rechargeable lithium cell

ANALOGUE INPUT CHANNELS

Number of channels: Up to 5

ADC Number of Bits: 16 Bits Sigma Delta

Sampling rates supported: 24kHz – 384kHz

HYDROPHONE OPTIONS

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

Customised sensitivities and bandwidths available on request

MEMORY

Up to 2TB SD card internal storage and up to 2TB SSD

Configurable recording, schedule and duty cycling

REAL TIME PROCESSING

Onboard 1/3 Octave Analysis on

Sound Pressure Levels

(at up to 48kHz sampling)

COMMUNICATIONS

Ethernet for configuration & real time monitoring

High Speed USB for data offload

ENVIRONMENTAL

Orca 72D: 750m standard (up to 2500m on request)

Orca Ace: 200m

Operating Temperature: -10°c to +50°c

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