

AquaEar CR30-40 Active Hydrophone (7 Hz–30 kHz)

Audible Range • Integrated 40 dB FET preamplifier • 400 m depth rating • RF shielded • Stainless steel housing



Overview

The CR30-40 is an encapsulated active ceramic hydrophone built for practical underwater listening, recording and monitoring. Its response covers the full human hearing range making it the go-to choice when you want to hear what's happening in real time through headphones or speakers. A sound-transparent rubber encapsulant protects the element while maintaining sensitivity, and the integrated ultra-low-noise, high-impedance preamplifier delivers clean output—especially helpful for longer cable runs.

Where this model fits (AquaEar range)

- CR30-40 (this model) — Best choice for real-time listening and general underwater audio. Covers the full human hearing band (≈ 20 Hz–20 kHz) plus extended detail up to 30 kHz.
- CR80-40 — Choose when you need more high-frequency capture above human hearing (e.g., more detail from ultrasonic signals and echolocation content).
- CR100-27 — Choose for the most demanding ultrasonic work and maximum detail where higher frequencies matter most.

Best For:

- Cetacean research (general listening, vocalisations, ambient sound)
- Underwater film making / sound design / multimedia
- Dolphin & whale watching / tour boats
- Machinery, boat noise & environmental monitoring

Key Features:

- Wide frequency range: 7 Hz–30 kHz
- Stainless steel housing and robust construction
- 40 dB inbuilt FET preamplifier (active hydrophone)
- RF shielded
- High quality shielded cable (2-core + shield)
- Simple powering: 12–24 V DC, 10 mA

Specifications:

- Frequency range: 7 Hz to 30 kHz
- Ceramic resonant frequency: > 70 kHz
- Sensitivity: -165 dB ± 5 dB re 1 V/ μ Pa
- Directivity (horizontal): Omnidirectional ± 3 dB @ 1 kHz
- Directivity (vertical): $260^\circ \pm 6$ dB @ 1 kHz
- Supply voltage: 12 to 24 V DC
- Supply current: 10 mA
- Maximum operating depth: 400 m
- Operating temperature: -1° C to 55° C
- Dimensions: 140 mm \times 19 mm (cable not included)
- Cable: 2-core + shield

Burns Electronics Pty Ltd[®]

Nelson Bay, NSW, 2315, Australia.

Phone (02) 4984 4444 | www.burnselectronics.com.au