DVCS-V500

Diver Voice Communications System



Smaller & Lighter

High-fidelity Underwater Communication with Uninterrupted Clarity

Enabling Fast Underwater Operations

Overview

The DVCS-V500 diver voice communication system is an underwater acoustic device that enables real-time voice communication through water. It consists of two main components: the deck unit and the underwater unit, supporting real-time voice communication between divers, or between divers and the deck unit.

Equipped with advanced digital signal processing technology, the DVCS-V500 delivers reliable voice transmission and superior speech intelligibility. Built-in high-capacity batteries provide up to 4 hours of continuous operation for the underwater unit and 8 hours for the deck unit (based on a 10% duty cycle).

Diver Unit
Ready to wear in just 30 seconds. Composed of the underwater communication main unit, full-face diving mask (including microphone, PTT button, and 2-core watertight connector with cable).

Deck Unit
Composed of the deck box, cabled transducer, integrated headset, handheld microphone, and charging accessories.

Key Features

- **500m Communication Range**: Maximum communication distance of 500 meters with high-fidelity real-time voice
- **4-Hour Battery Life**: Worry-free long-duration operations with extended runtime
- **Underwater Two-Way Intercom**: Eliminate inefficient sign language with clear underwater communication
- **Ultra-Light 60g Design**: Communication unit weighs only 60g in water, compact and easy to wear, reducing diver workload

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Technical Specifications

Acoustic Characteristics	
Max.Communication Range	Diver-to-Diver: 100 m; Diver-to-Surface Unit: 500 m
Center Frequency	Channel A: 31 kHz; Channel B: 35 kHz; Channel C: 27 kHz; Channel D: 39 kHz
Transmit Power	Deck Unit: 15 W; Underwater Unit: 5 W
Receive Power	Deck Unit: 1.5 W; Underwater Unit: 0.5 W
Trigger Mode	PTT Kit Press-to-Trigger
Underwater Unit Physical Specifications	
Housing Material	ABS
Weight	170 g (in air); 60 g (in water)
Dimensions	H 91 × W 63 × D 45 mm
Mounting	Ear-hook Style Wearing
General Specifications	
Maximum Operating Depth	Underwater Unit: 40 m; Deck Unit: IP54 Rated
Battery Type	Lithium-ion Battery
Battery Capacity	Deck Unit: 3100 mAh @ 12 V; Underwater Unit: 1650 mAh @ 3.7 V
Operating Time	Deck Unit: ≥ 8 hours (10% duty cycle); Underwater Unit: ≥ 4 hours (10% duty cycle)
Operating Temperature	Charging State: 0℃ ~ 45℃; Operating State: -10℃ ~ 55℃
Storage Temperature (with battery)	Within 24 hours: -10℃ ~ 60℃; Within 30 days: -10℃ ~ 45℃; Long-term: -10℃ ~ 25℃
Deck Unit Physical Specifications	
Housing Material	PP Engineering Plastic
Weight	1725 g
Dimensions	L 252 × W 173 × H 101 mm
Mounting	Surface / Deck Placement

Note: All weights, dimensions, and values are approximate. The descriptions, specifications, and other information in this document are subject to change without prior notice.

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APPLICATIONS

One System for All Communication Needs

Widely applicable to fire emergency rescue and salvage, underwater archaeology, recreational diving, underwater collaborative operations, and more. Compatible with all major diving masks on the market.

- Recreational Diving / Diver-to-Diver Underwater Communication
- Surface-to-Diver Underwater Communication
- Underwater Collaborative Operations / Rescue & Salvage
- Marine Research, Underwater Archaeology & Other Missions

product images



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