

Communication sous-marine

Scubaphone

- Comfortable and easy to use
- Increases diver efficiency
- Improves diver safety
- Unsurpassed clarity
- 1+km diver unit range, 3+km surface unit range



General Technical Data:		
	30 KHz Diver Unit (Model 2000D)	30 KHz Surface Unit (Model 2000S)
Operating Frequency	USB 28.5 KHz ± 1 Hz Standard Carrier Frequency (Other frequencies available)	USB 28.5 KHz ± 1 Hz Standard Carrier Frequency (Other frequencies available)
Modulation	Single Side Band Suppressed Carrier	Single Sideband Suppressed Carrier
Transmitter Activation	PPT (Push -to-talk) with lock/release	PPT (Push -to-talk)
Transmitter Power	1 Watt RMS	5 Watts RMS
Receiver Audio Output Power	1 Watt RMS	2 Watts RMS
Receiver Gain Control	Automatic	Automatic or Manual Selectable by Operator

Nominal Range in Salt Water	1+ km (3300+ ft.)	3+ km (1.8+ miles)
Maximum Operating Depth	100m (328 ft.)	Waterproof
Power Source	Internal	Internal or External
Battery		
Type	12 V Ni-Cad	12 V Sealed Lead Acid
Rechargeable	Yes	Yes
Charging System	Yes	Yes
Field Replaceable	Yes	Yes
Life/Transmission Time @ 15% transmit	14 hrs	30 hrs
Condition Test Circuitry	Yes	Yes
Low Power Indicator	Yes	Yes
Operating Temperature	200C to 650C -40F to 1490F	200C to 600C -40F to 1400F
Tape output	Tape recording from surface unit also records diver transmissions	Yes
Extension Headset (Optional)	N/A	Yes
Video Camera Attachment (Optional)	Yes	N/A
Weight in Air	1.25 kg (2.75 lbs)	10 kg (22.5 lbs)
Weight in Water	75 kg (1.75 lbs)	Buoyant

Underwater communications for divers enhances the effectiveness and safety of any diving operation. Orcatron's Scubaphone is an advanced communications system designed for the rigors of the underwater environment and the unique requirements of professional divers.

Advanced technology contributes to the superior quality of sound in the Scubaphone. Sophisticated electronic circuitry and filtering techniques are utilized to enhance speech clarity and reduce extraneous noises, thereby providing optimum clarity under adverse conditions.

The Scubaphone — like all of Orcatron's products — employs crystal-controlled single side band (SSB) ultrasonic techniques. Unlike earlier wireless underwater communications systems which were prone to multipath problems in crowded harbours and had short battery life, Scubaphone's SSB technology provides distortion free transmissions and extended battery life. Diving teams will enjoy clear communications even in strong currents or waters crowded with ships, wharf pilings, or debris.

To optimize the field of communications the Scubaphone diver unit is an integrated head-mounted communications transceiver. It consists of two high-output speaker enclosures housing all electronic circuitry and rechargeable ni-cad battery pack, a transducer attached to the top of the headband, and a push-to-talk activated microphone which fits into any full-face diving mask. The entire unit is water and pressure proof to 100meters. This unique design provides a lightweight (only 750 grams in water), comfortable, easy-to-use system with proven reliability and ruggedness.

With the freedom of a wireless system and the security of a reliable state-of-the-art design, Orcatron's Scubaphone is the ideal answer for your diving operation's communications needs.



Feature

Diver unit

- Head-mounted transducer allows for maximum broadcast pattern and easy direction finding.
- No dangling cable to entangle diver
- Low power consumption (14 hrs. at 15% transmit).
- Optional video camera attachment allows diver's voice to be recorded while video filming.
- Optional ABS carry case for two diver units and face masks

Surface unit

- All controls and connectors are sealed and waterproof.
- Low power consumption (30 hrs @ 15% transmit).
- Charging system has automatic reduction to trickle charge and charge-level indicators to allow for simultaneous charging of surface unit and two diver units
- Tape outlet allows for recording of communications of both divers and surface attendants.