

Scubaphone

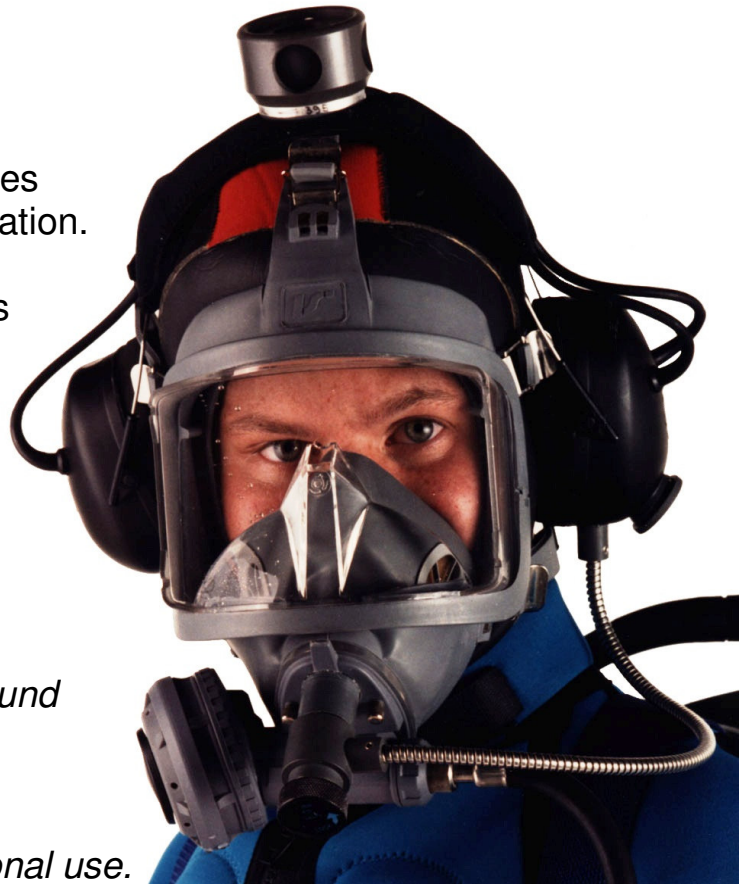
by *Subsea* Import
Corporation

Diver Unit Model 2000D
Surface Unit Model 2000SX

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

Scubaphone's technology is unequalled in the industry in terms of:

- *clarity of speech,*
- *extended range in both fresh and salt water*
- *clear communications in strong currents, around obstacles and in enclosed areas*
- *ease of use,*
- *long battery life*
- *rugged reliability in military / police / professional use.*



Advanced technology contributes to the superior quality and clarity 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 Subsea's products — employs crystal-controlled single side band (SSB) ultrasonic techniques.

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 and even while inside sunken ships, pipes or other enclosed areas. The

Scubaphone is compatible with all other Subsea communications products.



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Scubaphone Model 2000D and 2000SX

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, Subsea's Scubaphone is the ideal answer for your diving operation's communications needs.

Features

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).
- The diver microphone is floodable to 100msw and the microphone connector can be detached and connected in 100msw. This allows divers to don or exchange the system while submerged.
- 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.

	Diver Unit 2000D	Surface Unit 2000SX
Operating Frequency	USB 28.5KHz carrier standard Other frequency options available	USB 28.5KHz carrier standard Other frequency options available
Modulation	Upper Single Sideband Suppressed Carrier	Upper Single Sideband Suppressed Carrier
Transmitter Activation	PTT (push-to talk) with lock / release	PTT (push-to talk)
Transmitter Power	1 Watts rms	5 Watts rms
Receiver Audio Power	1 Watts rms	2 Watts rms
Receiver Gain Control	Automatic, AGC > 100dBV	Automatic or Manual > 100dBV
Nominal Range open water	1 Km	3 Km
Maximum Operating Depth	100m	Waterproof Surface Use
Battery	12V Ni-Cad Field Replaceable	12V Sealed Lead Acid or External
Charging System	Via Surface Unit or Stand Alone Charger	Built In
Operating Time @ 15% Transmit	14 Hour	30 Hours
Battery Charge Monitor	Via Surface Unit	Built In
Operating Temperature	-20°C to 60°C -4°F to 140°F	-20°C to 60°C -4°F to 140°F
Tape recording Output	Via Surface Unit	Connection Built In
Extension Headset	N/A	Optional
Weight In Air	1.25Kg / 2.75lbs	10Kg / 22.5lbs
Weight In Water	0.75Kg / 1.75lbs	Buoyant

* A second waterproof case identical to the Surface Unit is provided to carry all accessories.

* The diver must wear a full face diving mask to allow underwater speech, an AGA Divator MK II mask is normally provided.
All specifications are subject to change without notice.