

OCEAN TECHNOLOGY SYSTEMS

- ✓ **U. S. NAVY APPROVED**
- ✓ **USED BY SPEC-OPS**
- ✓ **SECURE COMMS**
- ✓ **HARD-WIRE COMMS**
- ✓ **WIRELESS COMMS**
- ✓ **DIVER RECALL SYSTEMS**



The roots of all OTS communications equipment came from supplying the U.S. Navy and other government agencies with underwater communications systems. OTS communications equipment is designed to meet their special applications.

Our equipment is in use by many Special Forces units around the world. All systems cannot be shown and many systems are custom designed to meet the tactical demands specific to the users' needs.

Certain configurations may be restricted and many units allow different frequencies to be specified at order time.

Contact one of our trained and experienced sales associates to help determine the best solution available.



SPECIAL APPLICATIONS COMMUNICATIONS

SPEC-OPS COMMS

US MILITARY ONLY



SW-1000-SC



MAG-1004TAC

The Magnacom® SW-1000-SC is the most advanced, state-of-the-art underwater communication unit to date. A powerful 70-watt transmitter and a diver-to-diver hardwire connection ensures long-range communications via through-water mode and secure communications via hardwire. This unit also features a Sleep Mode to conserve battery for underwater cache. *(Requires special Ear/Mic assembly)*

An optional “Buddy Line” allows multiple divers to participate on the secure line.

The Magnacom®MAG-1004TAC is a variant of the Magnacom® MAG-1004HS using a shorter (approx 4’ cable) and locking connectors.

The powerful 70-watt transmitter ensures long range communications. The Secure Comm intercom allows the users a secure way to communicate. This gives the team the best of both worlds, through-water communications as well as diver-to-diver secure intercom.

Ch. A: 25 kHz USB Ch. B: F2 (special)	Channels/Frequencies	Ch. A: 28.500 kHz LSB Ch. B: 32.768 kHz USB
70 watts PEP	Output Power (watts)	70 watts PEP
1000m-6000m	Nominal Range**	1000m-6000m
Piezoelectric type	Transducer	Piezoelectric type
Voice-operated transmitter (VOX) or manual activation (PTT)	Transmit Control	Voice-operated transmitter (VOX) or manual activation (PTT)
Ear / Microphone Assembly connected via Hi-Use Connector	Microphone/Speakers/ Earphone	Ear / Microphone Assembly connected via Hi-Use Connector
n/a	Rec Out / Auxiliary Speaker	no/no
RB-14 NiMH battery pack, 12v, 2 amp-hours. Includes spring contact pad	Battery Type	RB-14 NiMH battery pack, 12 V, 2 amp-hours. Includes spring contact pad
4 hours on high-power Ch. A; or, 8 hours on low-power Ch. B	Battery Life (10% xmit duty cycle)	4 hours on high-power Ch. A; or, 8 hours on low-power Ch. B
Red flashing LED on housing and tone alert	Low Battery Indicator	Red flashing LED on housing and tone alert
n/a	External Power Source	n/a
300fsw	Maximum Unit/Standard Transducer Depth	300fsw
Injection-molded, high-impact, glass-filled ABS plastic	Housing	Injection-molded, high-impact, glass-filled ABS plastic
8.75" x4.5" x 2.5" .5 lbs (in water)	Dimensions (H x W x D) & Weight	8.75" x4.5" x 2.5" .5 lbs (in water)

SURFACE COMMS



MAG-1001S

The Magnacom® MAG-1001S surface station is a state-of-the-art 70-watt, dual-channel single sideband surface station designed to meet the demanding needs of the military. The Magnacom® MAG-1001S has many useful features including: record-out jack, front panel adjustable squelch and volume control, and hand-held microphone. It also comes standard with battery, battery charger, and transducer.



MAG-1003PS

The Magnacom® MAG-1003PS is a variation of our Magnacom® MAG-1003D designed for surface use. It features the same 70-watt output as the Magnacom® MAG-1001S in a high speed/low drag portable surface station configuration.

This unit features a dual channel configuration and includes a headswet with boom microphone, heavy duty caged transducer, rechargeable NiMH batteries and a smart charger.

Ch. A: 28.500 kHz LSB Ch. B: 32.768 kHz USB	Channels/Frequencies	Ch. A: 28.500 kHz LSB Ch. B: 32.768 kHz USB
70 watts PEP	Output Power (watts)	70 watts PEP
1000m-6000m	Nominal Range**	1000m-6000m
Piezoelectric type	Transducer	Piezoelectric type
manual activation (PTT)	Transmit Control	Voice-operated transmitter (VOX) or manual activation (PTT)
Hand-held, dynamic, 200 ohm impedance	Microphone/Speakers/ Earphone	Dynamic earphones and dynamic 150-ohm microphone model THB-13
yes/no	Rec Out / Auxiliary Speaker	yes/no
Use RB-6V rechargeable batteries only (not alkaline)	Battery Type	RB-14 NiMH battery pack, 12 V, 2 amp-hours. Includes spring contact pad
8 hrs (assuming 20% duty cycle)	Battery Life (10% xmit duty cycle)	4 hours on high-power Ch. A; or, 8 hours on low-power Ch. B
Tone Alert	Low Battery Indicator	Red flashing LED on housing and tone alert
12v DC min 9 amps. Access via front panel with use of MS connector	External Power Source	n/a
35fsw	Maximum Unit/Standard Transducer Length	35fsw
Ultra high impact ABS (UK 613 Ultracase)	Housing	Injection-molded, high-impact, glass-filled ABS plastic
6.625" x 14" x 10.0" 12 lbs w/batteries	Dimensions (H x W x D) & Weight	8.5" x 4.5" x 2.25" 1.5 lbs.

HI-POWER COMMS



MAG-1003D

A through-water unit only, the Magnacom® MAG-1003D is a variation of our Magnacom® SW-1000-SC without secure communications. It features a powerful 70-watt transmitter with dual channels and comes standard with rechargeable NiMH batteries and a charger.



MAG-1004HS

The Magnacom®MAG-1004HS is a variant of the Magnacom® SW-1000-SC created for Homeland Security applications using different frequencies and without a “sleep mode.”

A powerful 70-watt transmitter and a diver-to-diver hardwire connection ensures long-range communications via through-water mode and secure communications via hardwire.

Ch. A: 28.500 kHz LSB Ch. B: 32.768 kHz USB	Channels/Frequencies	Ch. A: 28.500 kHz LSB Ch. B: 32.768 kHz USB
70 watts PEP	Output Power (watts)	70 watts PEP
1000m-6000m	Nominal Range**	1000m-6000m
Piezoelectric type	Transducer	Piezoelectric type
Voice-operated transmitter (VOX) or manual activation (PTT)	Transmit Control	Voice-operated transmitter (VOX) or manual activation (PTT)
Ear / Microphone Assembly connected via Hi-Use Connector	Microphone/Speakers/ Earphone	Ear / Microphone Assembly connected via Hi-Use Connector
n/a	Rec Out / Auxiliary Speaker	n/a
RB-14 NiMH battery pack, 12 V, 2 amp-hours. Includes spring contact pad	Battery Type	RB-14 NiMH battery pack, 12 V, 2 amp-hours. Includes spring contact pad
4 hours on high-power Ch. A; or, 8 hours on low-power Ch. B	Battery Life (10% xmit duty cycle)	4 hours on high-power Ch. A; or, 8 hours on low-power Ch. B
Red flashing LED on housing and tone alert	Low Battery Indicator	Red flashing LED on housing and tone alert
n/a	External Power Source	n/a
300fsw	Maximum Unit/Standard Transducer Depth	300fsw
Injection-molded, high-impact, glass-filled ABS plastic	Housing	Injection-molded, high-impact, glass-filled ABS plastic
8.5" x 4.5" x 2.5" .5 lbs (in water)	Dimensions (H x W x D) & Weight	8.75" x 4.5" x 2.5" 1.5 lbs.

STANDARD MILITARY



STX-101M

The Aquacom® STX-101M transceiver is a state-of-the-art 10-watt, 8-channel single sideband surface station designed to meet the demanding profile of the military diver. It operates with virtually all OTS Aquacom® and Buddy Phone® transceivers and comes in a heavy-duty housing with many useful features including: record-out jack, front panel adjustable squelch and deluxe hand-held microphone

SSB-1001B1

The Aquacom® SSB-1001B1 transceiver is a powerful 10-watt, 8-channel single sideband underwater communications unit designed with the Military in mind. The SSB-1001B can be configured to operate with virtually any style full face mask (FFM) or mouth mask. With the addition of a CDK-6 Surface Accessory Kit, the SSB-2010 is easily converted into a portable surface station.

Ch 1: 32.768 kHz USB	Ch 5: 28.500 kHz USB	Channels/Frequencies	Ch 1: 32.768 kHz USB	Ch 5: 28.500 kHz USB
Ch 2: 32.768 kHz LSB	Ch 6: 28.500 kHz LSB		Ch 2: 32.768 kHz LSB	Ch 6: 28.500 kHz LSB
Ch 3: 31.250 kHz USB	Ch 7: 25.000 kHz USB		Ch 3: 31.250 kHz USB	Ch 7: 25.000 kHz USB
Ch 4: 31.250 kHz LSB	Ch 8: 25.000 kHz LSB		Ch 4: 31.250 kHz LSB	Ch 8: 25.000 kHz LSB
10 watts PEP		Output Power (watts)	10 watts PEP	
200m-1500m		Nominal Range**	200m-1500m	
Piezoelectric type		Transducer	Piezoelectric type	
manual activation (PTT)		Transmit Control	Voice-operated transmitter (VOX) or manual activation (PTT)	
hand-held microphone (included); THB-101 headset with boom microphone (optional)		Microphone/Speakers/ Earphone	Ear / Microphone Assembly connected via Hi-Use Connector	
yes/no		Rec Out / Auxiliary Speaker	no/no	
Two 6-volt alkaline lantern batteries with springs (MN908 Duracell or equivalent) or two optional RB-6V gel-cell batteries		Battery Type	RB-11 NiMH battery pack, 12 V, 2 amp-hours.	
10 hrs alkaline 6 hrs gel-cell		Battery Life (10% xmit duty cycle)	7 hours AA, 8 hours NiMH	
Tone Alert		Low Battery Indicator	Red flashing LED on housing and tone alert	
12v DC min 9 amps. Access via front panel with use of MS connector		External Power Source	n/a	
n/a		Maximum Unit Depth	35fsw	
Ultra high impact ABS (UK 613 Ultracase)		Housing	Injection-molded, high-impact, glass-filled ABS plastic	
6.5" x 14" x 10.6" 12 lbs w/batteries		Dimensions (H x W x D) & Weight	8.2" x 4.5" x 2.25" 1.5 lbs.	

SURFACE SUPPORT



MK-IV

The MK-IV Three Diver Air Intercom represents state-of-the-art technology and innovation providing quality and features specifically designed for the military diver. Some of the features include; a third channel designed for the "Standby Diver" allows the safety diver to be online with the other two working divers, an INAC (Inhalation Noise Attenuation Circuit) for reduction of diver inhalation noise, and the capability to use both powered (preamplified) or nonpowered microphones.



DRS-100B

The DRS-100B Diver Recall/Hydrophone system is designed to alert all divers within range with either voice, a solid tone or an intermittent tone. You can also feed sound into the water (e.g. music, pre-recorded announcements) via a line-in connection. The DRS-100B also has a listen mode allowing the user to listen to marine and/or man-made noise. A record-out receptacle allows the user to connect the unit to a recorder.

Input Power	12v DC or 90-264 VAC, 47-63 Hz
Battery Type	Hawker Cyclon 12v, 5.0 Ah sealed lead-acid
Battery Life	14 hours continuous use (on full charge) Charge time is 3-5 hours
Number of Divers	1, 2, or 3 divers with independent controls
Output Power	30 watts max
Frequency Response	300 - 4,000 Hz
Inputs/Outputs	Diver umbilicals (3), tender headset, AC/charger power, 12v DC power, line out, remote speaker and panel speaker
Connector Types	Heavy Duty MS / Double Banana
Mic Input Types	Dynamic or Power Mic (switch selectable)
Operating Temp.	32 degree F to 140 degree F
Storage Temp.	14 degree F to 140 degree F
Protection Circuits	GFCI: thermal breaker (transformer isolates divers from shock hazards)
Battery Level Indicator	3-stage LED
Housing Dimensions	Height 8 1/2" (w/o cover), 14.3" (with cover) Width: 14", Depth: 11 1/4", Weight: 28 lbs.

Nominal Range	100 yards voice, 300 yards tone
Audio Power (PEP)	Recall & Tone: 132 Watts (in high power mode) Voice: Adjustable up to 132 watts
Frequency Response	500 - 4,000 hz
Beam Pattern	Omnidirectional
Transducer Cable	25 feet in length
Transducer	Lubell (anodized aluminum)
Microphone	Push-to-talk, front panel (optional hand-held with PTT available)
Input Current/Voltage	7 amps max / 24v DC
Idle Current	75 mA
Fuse Type	6 amps, slow-blow (use slow-blow fuse only)
Low Battery LED	Flashes at approximately 20 volts
Battery Type	(2) 12-volt, 2.6 Ah maintenance free rechargeable cells in series
Battery Life	5 hours at 20% duty cycle (Recall/Tone mode) 3 hours nominal when using Aux Input
Housing Dimensions	10.6" x 14" x 4.7" (w/o cover) 6.5" (with cover) Weight: 15 lbs.



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