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3 Diver C-Phone

User Manual



Compact, lightweight and durable the 3 Diver C-Phone is a three diver communications set offering superior voice quality in a robust and hardwearing carry case.

Features:

- Diver/tender volume controls
- 4mm terminal posts for ease of connection
- Transformer and opto-isolation of diver side wiring for safety
- Selection of one or both divers simultaneously
- Loudspeaker or headset options for tender/operator
- Loudspeaker doubles as microphone with push-to-talk button
- Phono socket with output for external recording device
- Socket for optional headset or fist microphone
- External loudspeaker facility with switch
- Robust 'Storm' case

Power supply:

Standalone mode utilizing internal 12V battery with 30+ hours capacity or mains operation from switch mode charger (universal input voltage 90-264 VAC), with the internal battery acting as back up in case of supply failure. Connections for external 12V DC supply if required.

Specifications:

Dimensions:	(L x W x H) 299 x 248 x 195 mm
Weight:	3.5kg
Case:	Lightweight Strong HPX resin, watertight, soft grip handle, two press and pull latches, 'Vortex' pressure relief valve.
Audio power output:	7.8W into 8Ω
Nominal frequency response:	400Hz to 10kHz
Standby current:	48mA

1. CONNECTING THE DIVER AUDIO CABLE

Connect the 2-wire audio cable from each diver's umbilical to the terminal posts on the left hand side of the panel.

Use either 4mm 'banana' plugs or clamp the bared cable ends with the screw down terminal posts. Each diver's audio cable must be connected to a designated pair of terminals.

2. SWITCHING ON THE C-PHONE 2 AND DIVER SELECTION

The unit is powered up by turning the diver select rotary switch clockwise to the required position, DIVER 1, 2 or ALL. This enables instructions to be given to a single diver without interference if required. However, when more than one diver is active, ensure that selector is returned to 'ALL' to monitor all divers during normal operation.

Instructions can be given to one or other diver without interference if required but ensure that selector is returned to 'ALL' to monitor both divers during normal operation.

3. DIVER COMMUNICATION

Set both VOLUME controls initially to approximately $\frac{1}{4}$ of turn. Talk to the diver(s) by depressing the top panel PTT (Push to talk) button. Voice pick up is through the integral loudspeaker, which also functions as a microphone. Ensure that the speaker selector is switched to INTERNAL when using the communications system in this mode. Alternatively, the hand held microphone with inbuilt PTT can be utilised by connecting it to the top panel socket labelled HEADSET. The speaker selector should remain on INTERNAL unless an external speaker is also in use, in which case EXTERNAL mode is selected. If the optional headset has been supplied, see also section 4.

During the initial communications check, adjust the Diver volume control on the panel to provide both divers with a comfortable receive level. Adjust the Tender volume as required.

The system is switched off by rotating the diver select knob anti-clockwise to the OFF position.

4. HEADSET MODE

The optional headset is connected to the top panel HEADSET socket and the speaker selector switch is set to EXTERNAL. This will disable the internal speaker and therefore reduce any background noise transmitted to the divers. Communication with divers is now through the boom microphone and activated by the top panel PTT switch.

*NB. The boom microphone is muted when parked and becomes live only when extended to its operational position:

5. CONNECTING AN EXTERNAL SPEAKER AND/OR RECORDING DEVICE

An external loudspeaker can be utilised if the speaker select switch is in the EXTERNAL position and a speaker connected to the terminal posts labelled EXTERNAL SPEAKER. The internal speaker will be disabled.

The phono socket labelled RECORD OUT can be used to connect a tape recorder or other recording device.

6. POWER SUPPLY

The unit contains a 12v 3.2 Ah rechargeable sealed lead-acid battery which, fully charged, will provide in excess of 30 hours use. A suitable mains charger is supplied. When connected to the unit, the panel AC CHARGE LED will illuminate. An integral LED on the charger also illuminates red during the charging process and will go to green on completion.

Low battery voltage is indicated by a slow flashing POWER LED on the panel. (A rapidly flashing LED is an indication of a fault condition within the unit, recycle power off/on to clear. Contact your dealer if unable to restore normal function).

An external supply can be connected to the 12 Volt DC input terminals if required. If using this facility please ensure correct voltage and polarity before connection!

7. CARE OF YOUR COMMUNICATIONS SYSTEM

The unit is designed for minimal maintenance. Wipe down after use and store the unit in dry and clean conditions. Check state of connections and connecting leads each time the unit is opened and arrange for immediate repair if any damage or deterioration is observed.



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