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2/3/4 Diver C-Phone – 4 Wire

User Manual



Compact, lightweight and durable - the C-Phone 4 Wire is a communications set offering superior voice quality in a robust and lightweight carry case. Available in 2, 3 and 4 channel versions.

Features:

- Separate diver/tender volume controls
- 4mm terminal posts for ease of connection
- Transformer and opto-isolation of diver side wiring for safety
- 2 wire, 4 wire and full round robin operating modes
- Integrated loudspeaker and panel microphone
- Phono socket with output to an external recording device
- Robust 'Storm' case

Power supply:

Standalone mode utilizing internal 12V battery with 6-7 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.

Specifications:

Dimensions:	(L x W x H) 360 x 290 x 170 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:	170mA

1. CONNECTING THE DIVER AUDIO CABLE

Using either 4mm 'banana' plugs or by clamping the bared cable ends with the screw down terminal posts, connect the audio cable from the diver's umbilical to the terminal posts on the left hand side of the panel.

2 wire mode

If using the system in 2 wire mode please ensure that the '2 wire mode' button on the right hand side of the panel is pressed and latched, and that LED is illuminated. If using 2x banana plugs, for each diver connect one of the microphone wires and one of the earphone wires to one banana plug, and the other microphone and earphone wire to the other banana plug then stack them. Fit the stacked banana plugs into the terminal posts labelled 'microphone' (also labelled '2 wire').

4 wire mode

If using the system in 4 wire mode please ensure that the '2 wire mode' button on the right hand side of the panel is unlatched, and that LED is not illuminated. If using 2x banana plugs, for each diver connect both of the microphone wires to one banana plug, and both of the earphone wires to one banana plug. Fit the microphone banana plugs into the terminal posts labelled 'microphone', and the earphone banana plugs into the terminal posts labelled 'earphones'.

2. SWITCHING ON THE C-PHONE 4 Wire

The unit is powered up by pressing the power rocker switch to the '(I)/ON' position. Set the unit to 2 wire or 4 wire mode as required.

3. DIVER COMMUNICATION

Set all VOLUME controls initially to approximately $\frac{1}{4}$ of turn. Switch the internal speaker and panel microphone to the 'ON' position. Activate each diver channel as required by pressing the appropriate switch (Diver 1, Diver 2, Diver 3, and Diver 4). In 2 wire mode, the communications are operated on a PTT (Push To Talk) system, controlled by the tender. When the PTT button on the panel is not pressed, the tender can hear the diver(s) and the diver(s) cannot hear the tender. When the PTT button is depressed, the diver(s) can hear the tender and the tender cannot hear the diver(s).

In 4 wire mode (2 wire mode disengaged), communications are always open between the tender and each diver i.e. the diver(s) can hear the tender and the tender can hear the diver(s) simultaneously. The PTT switch will act as a mute for all channels in this mode.

In 2 wire and 4 wire modes, divers are unable to hear one another at any time.

In round robin mode (round robin switch latched), communications are always open between all divers and the tender i.e. all divers and the tender can hear one another simultaneously. The PTT switch will act as a mute for all channels in this mode.

Tender voice pick up is through the panel microphone. The diver audio can be heard through the internal loudspeaker. Alternatively, the supplied headset with inbuilt PTT can be utilised by connecting it to the top panel socket labelled HEADSET. This provides the functions of both the internal loudspeaker and panel microphone. The loudspeaker can remain on or off as desired during headset use.

During the initial communications check, adjust the diver volume controls on the panel to provide the diver(s) with a comfortable receive level. Adjust the tender volume as required. The system is switched off by switching the power rocker switch to the (O)/OFF position.

4. CONNECTING AN EXTERNAL SPEAKER AND/OR RECORDING DEVICE

An external loudspeaker can be utilised if 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.

5. POWER SUPPLY

The unit contains a 12V 4Ah rechargeable sealed lithium polymer battery which, fully charged, will provide 6-7 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).

6. 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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