

C-Phone HE4R Helium Unscrambler



Order Code: CT7003

Rack mount 4-channel diver communications system with integrated helium speech unscrambler

The C-Phone HE4R is a rack-mounted diver communications system with an integrated helium speech unscrambler, designed for clear and reliable communication in saturation and deep diving environments.

Using a powerful digital signal processor, the system independently processes four separate speech channels. This allows accurate recovery of speech in helium environments, unlike systems that combine inputs before processing.

Each channel includes individual unscrambler adjustment, enabling precise tuning for optimal clarity. The system operates in both 2-wire push-to-talk and 4-wire round robin modes, with a straightforward user interface designed for operational environments.

Dual tender inputs and flexible recording outputs support structured dive operations and post-dive analysis.

Technical Specification

Models	CT7003
Dimensions	19 inch x 3U x 430 mm
Weight	5 kg
Power Supply	96–230 VAC, 50–60 Hz
Volume Control	Individual uplink / downlink
Channel Selection	Individual or all channels
Configuration	2-wire push-to-talk or 4-wire selectable
Battery Backup	Internal 12 V SLA (optional)
Standby Current	170 mA
Depth Range	0–300 metres (MRT tested to 180 m)
Frequency Response	300 Hz to 12 kHz
Audio Power Output	7.8 W into 8 ohm
Loudspeaker	8 ohm
Unscrambler Adjustment	Individual on each channel
Unscrambler Settings	Stored after power-off
Tender Inputs	2
Recording Output	Via RCA socket per channel, individual or mixed

Applications: Commercial diving, Containerised dive stations

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