



World leaders in diving equipment technology

DEFENCE
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The DC HSU is designed for helium speech communications with three divers and the bell environment.

Operating Modes

Three operating modes offer greater flexibility to meet all bell diving communication requirements:

- **Supervisor Round Robin Mode** allows duplex hands-free communication between the dive supervisor wearing a headset/boom microphone and all divers. A separate volume control for each diver circuit allows different volume settings for each diver to suit individual hearing and speech characteristics and to compensate for microphone performance.
- **Diver Round Robin Mode** provides duplex hands-free communication between all divers. Interjection by the dive supervisor to all divers is by means of the PTT All Divers switch, or to individual divers by means of the respective Diver PTT switch. A separate volume control for each diver circuit allows different volume settings for each diver to suit individual hearing and speech characteristics and to compensate for microphone performance.
- **Simplex Mode** provides simplex diver communication with uplink signal priority. The dive supervisor uses a PTT switch for each diver individually or a master PTT switch for all three divers simultaneously. Separate volume controls are provided for uplink and downlink signals to suit individual hearing and speech characteristics and to compensate for microphone performance.

HeliCom™ Dive Control Helium Speech Unscrambler

A front panel loudspeaker allows the divers' speech to be audible to the dive supervisor independently of his headset in all modes of operation. An on/off switch allows the loudspeaker to be switched off as required.

DSP Helium Speech Unscrambler Circuit

Uplink signals from the divers are mixed in an audio mixer before decoding to the selected gas and environmental settings by a digital signal processing (DSP) circuit.

An LCD display is provided for monitoring helium speech decoding settings. Adjusting settings is easily accomplished by means of a front panel depth setting potentiometer calibrated 0 msw to 400 msw in 50 msw increments and a user-friendly keypad for PPO₂, pitch reduction and temperature settings.

An unscrambler on/off switch allows the DSP helium speech unscrambler circuit to be bypassed when communications are in the air range or when unscrambling is not required.

HEAD OFFICE

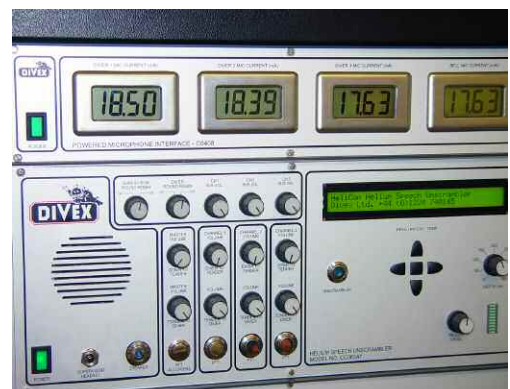
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Portsmouth
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CO-MDS-490 R1

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Specification

General	Power	110/220 VAC 50/60 Hz
	Power Amplifiers	1 per channel
	Power Output	10 Watts per channel
	Frequency Response	300 Hz to 12 kHz
	Input Impedance	600 ohms, transformer isolated
	DSP Unscrambler	Common to all 3 diver channels
	Voice Correction Range	0 m to 400 m (0 ft to 1,312 ft)
	Audio Recording	Recording level control with VU display
Connectors	Divers 1 & 2	4 pin socket P/No EM3008 & 4 pin plug P/No EM3011, rear panel
	Diver 3 (bellman & bell comms box)	10 pin socket P/No EM3009 & 10 pin plug P/No EM30012, rear panel
	Bell Remote PTT	2 pin socket P/No EM3007 & 2 pin plug P/No EM3010, rear panel
	Supervisor Headset	¼" headset socket, front panel
	Recording Output	BNC bulkhead socket, rear panel
Dimensions	Height - 19" Sub-rack	H 4U (177.8 mm)
	Width - 19" Sub-rack	W 84 HP (426.7 mm)
	Depth	355 mm
	Weight	7.5 kg
Environmental	Operating & Storage	-20°C to +40°C

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Unscrambler**

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