

HELIUM UNSCRABLERS

Helium Speech Unscrambler

SEE BELOW

The New Amron International DSP2 is the third generation of Helium Speech Unscramblers (HSU). The unique design utilizes the latest technological advancements including dual digital signal processors.

Features

- Real-time audio processing uses both frequency and time domain technologies for optimized performance over a wide range of depths and background noise
- Treble Boost Control provides means of adjustment to enhance the diver's microphone performance
- Treble Boost Control feature allows for optimum frequency enhancement and improved intelligible speech from the diver's voice
- The Depth Control increases or decreases the diver's depth algorithm changing the amount of correction to the raw helium speech
- Mode Switch allows for two choices of operation Mode A is typically used for shallow depths with lower concentrations of Helium, while Mode B is used for deeper depths requiring higher concentrations of Helium
- Advanced Noise Reduction Filter (NRF) incorporates a complex DSP algorithm which filters out background noise while allowing the diver's speech to be clear and intelligible
- Noise Reduction Filter has four adjustment levels for the reduction of background noise in both depth modes A and B
- Mode A, simply toggle the mode switch from A to B and back to A - Each time a toggle cycle is completed, the filter will advance to the next level
- Mode B, simply toggle the mode switch from B to A and back to B - Each time a toggle cycle is completed, the filter will advance to the next level

Rechargeable with Internal Charger for 2- and 3-Diver Portable DSP2 Communicators Includes

- Hand-Held Push-to-Talk Microphone: Part Number 2405-28
- (1) 12 VDC Slide Terminal Gel-Cell Rechargeable Battery: Part Number 2890-05 - Expected life: 20 hrs
- User Manual

Rechargeable with Internal Charger for 2- and 3-Diver Rack Mount DSP2 Communicators Includes

- Hand-Held Push-to-Talk Microphone: Part Number 2405-28
- (2) 6 VDC Spring-Top Gel-Cell Rechargeable Battery: Part Number 2890-04 - Expected life: 20 hrs
- MS Connector – 20 Pin for 2- and 3-Diver Communicators: Part Number MS-3106A-28-16P
- MS Connector Cable Clamp for 2-, 3-, or 4-Diver Communicators: Part Number MS-3057-16A
- Power Cord: Part Number P-2392
- User Manual

Rechargeable with Internal Charger 4-Diver Rack Mount DSP2 Communicator Includes

- Hand-Held Push-to-Talk Microphone: Part Number 2405-28
- (2) 6 VDC Spring-Top Gel-Cell Rechargeable Battery: Part Number 2890-04 - Expected life: 20 hrs
- MS Connector – 20 Pin for 4-Diver Communicators: Part Number MS-3106A-28-12P
- MS Connector Cable Clamp for 2-, 3-, or 4-Diver Communicators: Part Number MS-3057-16A
- Power Cord: Part Number P-2392
- User Manual



2825A/24/26DSP2 2-DIVER PORTABLE WITH DSP2 UNSCRAMBLER



2830R/24/26DSP2 3-DIVER RACK MOUNT WITH DSP2 UNSCRAMBLER



Amcom™ Communicators with DSP2 Helium Speech Unscrambler (HSU)

2825A/24/26DSP2	2-Diver Portable Rechargeable with Internal Charger and DSP2 HSU
2830A/24/26DSP2	3-Diver Portable Rechargeable with Internal Charger and DSP2 HSU
2825R/24/26DSP2	2-Diver Rack Mount Rechargeable with Internal Charger and DSP2 HSU
2830R/24/26DSP2	3-Diver Rack Mount Rechargeable with Internal Charger and DSP2 HSU
2840R/24/26DSP2	4-Diver Rack Mount Rechargeable with Internal Charger and DSP2 HSU

TECH NOTE:

The use of high quality microphones with high output and wide frequency response can not be over emphasized. The voice frequency range in air requires a frequency response of 300 Hz to 3000 Hz. In Helium, with a shift of 3 times, the frequency range will be 900 Hz to 9000 Hz.