

Remote Control Acoustic Hailing Device (RCAHD)



Drumgrange has developed a remotely operated Acoustic Hailing Device (RCAHD) designed for manned or unmanned installations, for example, from a ship's bridge or security control centre via a wireless link.

The dual horn design offers a perfect compromise of size, weight, power and performance providing a solution for small and medium sized platforms.

The RCAHD is capable of providing intelligible communications, using either live or pre-recorded speech, up to a range of 1500m.

The control interface allows an operator to access the full set of RCAHD features. Real-time status information feedback is provided to aid in system fault finding and health monitoring.

Key Features

- Full remote control capability (control, status and audio feeds - Mic/PC/Recording)
- Provides an SPL of 143dB RMS and 149dB Peak
- Wide acoustic beam width of 35° horizontal x 35° vertical
- Clear audible speech at up to 1500m*
- Alarm tone up to 2000m*
- Designed for a marine environment (EMC, climate, vibration and shock)
- DC powered
- Simple installation and man portable
- Available in 2 frequency range options: 400Hz to 7kHz or 1kHz



Remote Control Acoustic Hailing Device



Integrated System

Technical Specification (Product Code RCAHD-DG-467)	
SPL RMS	143dB @ 1m
SPL Peak	149dB @ 1m
Beam Width	30° horizontal x 35° vertical at 1kHz
Frequency Range	400 - 7.5kHz for +/- 10dB 400 - 11kHz for +/- 3dB
Effective Communication Range	1500m*
Power Input	DC 24V nominal – 12A at maximum power output. Accepts a DC range 18-30V
Remote Control/Audio Input	Remote Control: RS 422 Bi-directional Serial Interface. Operates at 115.2 Kbaud Audio Input: Balance Line 10KΩ External Mute Control (On/Off): 2-wire volt-free contacts
Single Interface Connector	Rugged 38999 series connector (NAB) suitable for a marine environment
Interface Protocol	NMEA style sentences. Control facilities include: Setting of Volume Limiter and Level, Mute On/Off, Alarm Selection. Status facilities include: Signal Present Indication, Volume Limiter and Level Indications and Amplifier Status.
EMC	BS EN 60945 and IEC 60533
Environmental	BS EN 60945 (Climate, Salt, Vibration)
Shock	IEC 60721-3-6 (Class 6M1)
Water and Sand/Dust Ingress Protection	IP66
Temperature	Operating: -25°C to +55°C Storage: -30°C to +70°C
Dimensions (W x D x H)	283 x 236 x 500mm
Weight	19 kg
Colour	Gloss White (RAL 9016)

* dependant on ambient conditions

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