

# Acoustic Hailing Device (AHD)

By combining our extensive maritime knowledge with exceptional sound quality, Drumgrange has produced a fully marinised highly flexible long range Acoustic Hailing Device.

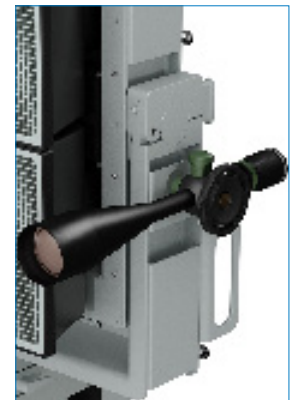
The AHD has been designed for high speech intelligibility at distances up to 1500m both on land and at sea, making it the ideal communicator for naval applications, commercial security, CBRN, merchant shipping, emergency services, oil & gas platforms and port & border protection.

The device has a unique modular construction. With just one operator, the system can be removed from its case, assembled and fully functional in less than 15 minutes.



## Key Features

- Intelligible speech, effective range of 1500m\* for voice and 2000m\* for the siren/ alarm tone
- SPL 155dB peak @1m at 1kHz
- Man-transportable, simple modular construction, no modification to host platform required
- Standardised mounting to enable fast deployment in a number of configurations, e.g. tripod or monopole to ship's rail
- Completely self contained, fully integrated amplifiers
- Independent dual acoustic horn assemblies provide system redundancy and simplified maintenance/repair
- Remote control or local operation
- Safe-to-transmit interlock keyswitch
- Available in d.c or a.c variant
- Flexible mounting arrangements for auxiliary equipment (rifle scope, night vision sight, camera, searchlight)
- Standard audio input to play pre-recorded messages via Phraselater or MP3 player, built in player
- Designed to meet Def Stan 00-35 environmental and Def Stan 59-411 EMC requirements
- Compatible with pan/tilt platforms
- Can be configured with a single or double dual horn acoustic assembly depending on user requirements



Ancillary Equipment Mounting



Remote Control



AHD-9-14Z



AHD-9-14Z



AHD-5-12Z

\* depending on ambient conditions

## Technical Specification

### Single Dual Horn and Double Dual Horn variants

|   |  |
|---|--|
| Power Input   | 90-240V a.c or 24-28V d.c  |
| Audio Input   | Adapter for standard audio (Phraselator or MP3 player)   |
| Pan and Tilt  | Pan: $\pm 60^\circ$<br>Tilt: $+45^\circ$ (down) and $-90^\circ$ (up)   |
| Mounting Arrangement  | Tripod, Monopole, Pan/Tilt Platform  |
| Remote Control  | Serial (RS422) / LAN Interface   |
| <b>Environmental:</b><br>Solar Radiation<br>Pressure<br>Driving Rain<br>Salt Fog<br>Shock and Vibration<br>Temperature and Humidity | DEF STAN 00-35 Part 3<br>Test CL3<br>Test CL2 I<br>Test CL27<br>Test CN2<br>Tests M1, M3 and M4<br>Tests CL2, CL5 and CL6<br>Climatic categories M1, B2, B3 and C0 |
| Electromagnetic Compatibility   | Designed to meet DEF STAN 59-41 I Part I Land Class B and Above Decks<br>CE Approved BSEN60945   |
| Colour  | Navy, Grey, Tan, White or Custom   |

|  | <b>Double Dual Horn<br/>AHD-9-14Z</b>                          | <b>Single Dual Horn<br/>AHD-5-12Z</b>                         |
|--|--|---|
| Dimensions (W x D x H)                                       | 560 x 390 x 675 (mm)   | 325 x 390 x 675 (mm)  |
| Weight   | Overall 35kg without accessories,<br>largest single unit 11kg  | Overall 21kg without accessories,<br>largest single unit 11kg |
| Beam Angle   | +/- 25 x +/- 25 @ 1kHz<br>-6dB@1kHz<br>(horizontal x vertical) | +/-35 x +/- 15 @ 1kHz<br>-6dB@1kHz<br>(horizontal x vertical) |
| Frequency Range  | 300 to 7.5kHz for +/- 10dB<br>400 to 7kHz for +/- 3dB          | 300 to 7.5kHz for +/- 10dB<br>500 to 7kHz for +/- 3dB         |
| Load Rating  | 400W (continuous)  | 200W (continuous)   |
| Sound Pressure Level - Peak                                  | 155dB peak @ 1m at 1kHz  | 149dB peak @ 1m at 1kHz                                       |
| Sound Pressure Level - RMS                                   | 149dB RMS @ 1m at 1kHz   | 143dB RMS @ 1m at 1kHz  |
| Effective Communications Range<br>over loud background noise | Up to 1500m*   | Up to 1000m*  |

\* depending on ambient conditions

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