

# UDB-9000

## UNIVERSAL DECK BOX

The Universal Deck Box is a complete single-unit replacement for all previously offered Teledyne Benthos acoustic deck box units, including the DS-7000, DS-8000, DS-8750, and ATM-891. The Universal Deck Box can release standard acoustic releases, communicate and control acoustic modems, and work with the Teledyne Benthos SMART line of products.

The Universal Deck Box, (UDB), provides two RS-232 serial ports for data/command line interaction, and a large grey-scale touch screen for simple graphical user control and enhanced sunlight readability.

### Features:

- Touch screen display to send and receive commands
- RS-232 ports for direct connection to a PC or laptop
- Speaker for listening to acoustic signals
- Auxiliary jack for optional headset
- AC/DC or internal battery power
- Low frequency (LF) dunking transducer and 25 meter cable standard
- Up to 200m cable available for high-reliability deep water acoustic communications
- Deck box emulation to command other vendor's products

### Touch screen to easily input, receive and view information such as:

- Real time data from subsea instrument
- Tilt indication of the subsea acoustic release
- Range information from the subsea modem, transponder or acoustic release
- Release commands and release confirmation of acoustic release
- Power sense and battery level monitoring of surface and subsea equipment
- Frequency inputs
- Variable power level (source level) selections easily changed by the user
- Variable bit rate selections to optimize data transfer speed and reliability



### Application

The Teledyne Benthos Universal Deck Box has been designed to work with all Benthos acoustic releases, transponders and modems, including the SMART products.



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## SPECIFICATIONS

|  |   |
|--|---|
| <b>Dimensions:</b>                     | 17.5" (44.4 cm) W x 11.75" (29.8 cm) D x 7" (17.8 cm) H (each box)  |
| <b>Weight:</b>                         | Deck Box < 30 lbs. (13.6 kg)<br>Transducer Box < 30 lbs. (13.6 kg)  |
| <b>Power Requirements:</b>             | Internal 24V lead acid battery (two 12V in series)<br>External AC, 85 - 265 VAC, 47 - 63 Hz<br>External DC, 10 - 30 VDC |
| <b>Frequency Band:</b>                 | 7-15 kHz (LF), other frequencies available on request   |
| <b>Acoustic Modem Data Modulation:</b> | PSK and MFSK  |
| <b>Acoustic Modem Baud Rate:</b>       | 2560-15,360 bits/sec (PSK transmit and receive);<br>140-2400 bits/sec (MFSK transmit and receive)                       |
| <b>Addressable Acoustic Modems:</b>    | 100 acoustic modems (more upon request)   |
| <b>Acoustic Modem Processing:</b>      | Data redundancy 1/2 rate convolutional coding with multipath guard protection   |
| <b>Receive Channels:</b>               | Multi-receive, 7-15 kHz in 250 Hz steps with optional filtering and first response                                      |
| <b>FSK Commands:</b>                   | A through M   |

### Models:

#### **UDB-9000A** Designed for acoustic releases and transponders

- Single channel unit similar to DS-8000
- Used to send range and release commands to a single unit

#### **UDB-9000M** Adds modem functionality with acoustic release and transponder

- Multi channel unit similar to DS-7000
- Used to send range and release commands to multiple units
- Communicates with acoustic modems and SMART products similar to ATM-891



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