

BII-7513 Communication Transducer

Suggested Application

Remote Control and Telemetry	Underwater Acoustic Network
Horizontal & Vertical Communication	Diver Communication
Artificial Acoustic Target	Pinger/Locator/Transponder/Beacon/Acoustic Release
Echo-Repeater Target, Active-Acoustic Target	LBL/SBL/USBL/Acoustic Positioning/Tracking
Acoustic Deterrent to Marine Animals	Underwater Telephone
Playback Marine Animal Voices/Calls/Whistles/Songs/Clicks	Marine Animal Behavior Research, Bioacoustic Stimuli

Specification

Cylindrical Transducer	Frequency kHz	Q	TVR dB μ Pa/V@1m	OCV dB V/ μ Pa	Maximum Driving Voltage (Vrms)	Beam	Beamwidth HorizontalxVertical	Size Φ DxH:mm
BII-7513	40	1.5	See TVR Graph	-194.0	300	Cylindrical	Omni x 80°	48x48

Depth Rating: Default: 300m

Deep Water: BII customizes the depth rating of the transducer upon request (up to 950m), please contact BII for details. To order customized Deep Water model, append DW to the part number.

Admittance: $G_{max} = 0.681mS$, $B = 2.683mS$ at 40kHz (20m SC cable).

Mounting Options:

1. Default: Free Hanging (FH)
 2. Thru-hole Mounting with Single O-ring (THSO)
 3. Thru-hole Mounting with Double O-ring (THDO)
 4. Bolt Fastening Mounting (Stainless Steel): (BFMSS)
 5. End-face Mounting: (EFM)
 6. Thru-hole Mounting + Free Hanging (THMFH)
- [http://www.benthowave.com/products/Transducer Hydrophone Mounting.html](http://www.benthowave.com/products/Transducer%20Hydrophone%20Mounting.html)

Cable:

1. Shielded Cable (SC).
2. Wire/Cable Bundle (WCB).

Connector:

Wire Leads (WL)

Transducer Wiring:

[http://www.benthowave.com/products/Transducer Wiring.html](http://www.benthowave.com/products/Transducer%20Wiring.html)

Operation Temperature:

-10 to +60°C

Storage Temperature:

-40 to +60°C

