

## BII-7512 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 $\mu$ Pa/V@1m	OCV dB V/ $\mu$ Pa	Maximum Driving Voltage (Vrms)	Beam	Beamwidth HorizontalxVertical	Size $\Phi$ DxH:mm
<b>BII-7512</b>	30	1.3	See TVR Graph	-183.5	300	Cylindrical	Omni x 80°	60x55

**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:** Gmax = 0.651mS at 27.5kHz, B = 3.074 mS at 27.5kHz (3m SC cable).  
G = 0.55mS at 30kHz, B = 3.72 mS at 30kHz (3m 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_Hydrophone_Mounting.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_Wiring.html)

**Operation Temperature:** -10 to +60°C

**Storage Temperature:** -40 to +60°C

### Transmitting Voltage Response

