



BM-10

### Heil Sound Suggested Accessories



All in and out of warranty items returned must be accompanied by a completed repair form, which can be found at <http://heilsound.com/amateur/repairs>  
Heil Sound, Ltd. warrants these products to the original purchaser for a period of one year parts and 90 days labor from the date of purchase with receipt. It does not cover accidental or intentional damage. Heil Sound, Ltd. is not responsible for loss, damage or expenses that arise from the use or the inability to use this product.

Designed by Bob Heil in Fairview Heights, Illinois  
Thanks from the Heil Sound gang.  
Working hard to earn your respect.

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# BM-10

The BM-10 headset was designed to be a lightweight (only 3 oz), articulate sounding boomset that is ideal for DXpeditions, mobile, and general rag chewing.

The speakers used in the BM-10 are extremely sensitive and don't require much AF drive from the transceiver. The frequency response is 60 Hz- 12 kHz with very low distortion. The ear pads are replaceable acoustic foam.

The BM-10 comes in two versions, a BM-10-Dynamic and a BM-10-iC (electret), to accommodate many radios on the market today.

The BM-10-Dynamic headset uses a dynamic element designed specifically for communications use. This 500 ohm dynamic element will work on most Amateur Radio rigs requiring a Low-Z input impedance (usually between 150 ohms and 4k ohms) Radios requiring a high impedance input of 10k to 30k ohms will require the use of an XT-1 impedance matching transformer. The BM-10-Dynamic has an operating frequency response of 200Hz to 5000Hz.

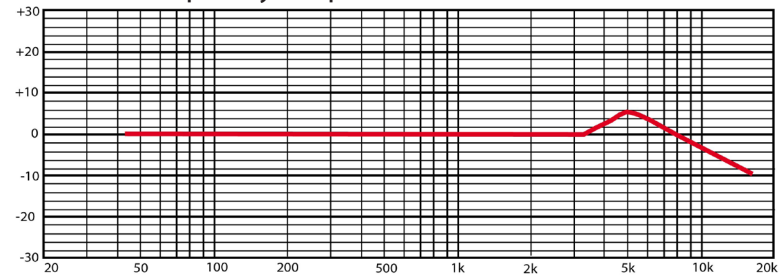
The BM-10-iC, using our iC electret element, was created for use on the Icom radios. Working with Icom America this element has been made to eliminate the low gain audio on some older and non-pro series radios. This element must be paired with the AD-1-IC (included) or AD-1-ICM adapter. The "iC" adapters have no internal d.c. blocking capacitor so power is passed allowing the iC electret element to operate. The iC element has an operating frequency response of 35Hz - 12kHz.

The microphone audio for the BM-10 series terminates into a 1/8" mono plug while the head phone terminates into a 1/8" stereo plug. (1/8" to 1/4" adapter included), and the in line PTT terminates in a 1/4" mono plug. The cable features a built in Push to Talk (PTT) button with a convenient clip on the back to keep it in place.

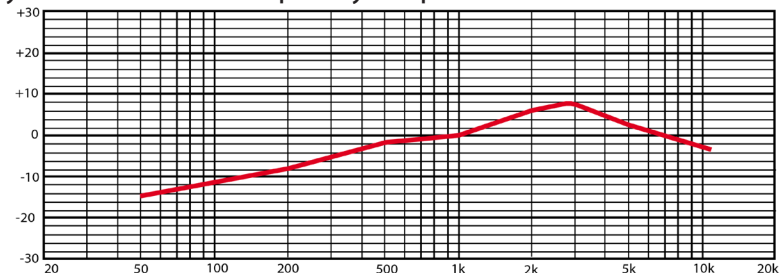
The use of the AD-1 series mic adapters allow simple interface with popular transceiver inputs. The adapter is 6-8" long and has a 1/8" female input jack for the boomset microphone while the 1/4" female that exits the adapter is the PTT (push to talk) line for the Heil foot switch or hand switch. The 1/8" or 1/4" stereo plug goes into the headphone jack on the transceiver front panel.

|                    |   |
|--------------------|---|
| GENERATING ELEMENT | 7/8"  |
| MAGNET             | Neodymium                                     |
| FREQUENCY RESPONSE | Dynamic: 200 Hz - 5 kHz<br>iC: 35 Hz - 12 kHz |
| SENSITIVITY        | -84dB +/-2dB at 1000 Hz                       |
| IMPEDANCE          | 500 ohms                                      |
| TOTAL WEIGHT       | 4.4 oz including cord and PTT                 |

iC Element Frequency Response



Dynamic Element Frequency Response



The boom is held to the headphone speaker by the use of a boom clip. When removing the boom it is imperative to pull straight down and out of the clip not to the side as this may break the clip.

Tension adjustments of the earphones to your ears is done by bending the spring stainless steel pieces as they exit the headphone speaker. More or less pressure can be applied to the ears by proper adjustment.

If you have any questions regarding the proper headset or interface cable for your setup please contact a local Heil dealer or contact us direct at (618) 257-3000 / [info@heilsound.com](mailto:info@heilsound.com).