RadioEar
2020
4 Audiometric air transducer headsets
10 Air transducer accessories and spare parts

15 Bone transducer headsets
20 Bone transducer accessories and spare parts

28 Insert earphone transducer headsets
32 Insert earphone accessories and spare parts

36 Speakers & Amplifiers
40 Miscellaneous
Audiometric air transducer headsets
DD45 Adult audiometric headset
- Headband: HBA, foldable
- Transducer: DD45
- Cable length: 2 m
- Plug type: 30°, 2x 6.3 mm gold-plated mono jack

DD45 Adult audiometric headset
- Headband: HBA, foldable
- Transducer: DD45
- Cable length: 5 m
- Plug type: 30°, 2x 6.3 mm gold-plated mono jack

DD45 Adult audiometric headset
- Headband: HB3045
- Transducer: DD45
- Cable length: 2 m
- Plug type: 30°, 2x 6.3 mm gold-plated mono jack

DD45 Adult audiometric headset
- Headband: HB3045
- Transducer: DD45
- Cable length: 5 m
- Plug type: 30°, 2x 6.3 mm gold-plated mono jack

DD45 Pediatric audiometric headset
- Headband: HB3100
- Transducer: DD45
- Cable length: 5 m
- Plug type: 30°, 2x 6.3 mm gold-plated mono jack

DD45 Audiometric headset
- Headband: RE-7
- Transducer: DD45
- Cable length: 2 m
- Plug type: 30°, 2x 6.3 mm gold-plated mono jack

DD45 Contra headset
- Headband: HBC
- Transducer: DD45
- Cable length: 2 m
- Plug type: 30°, 1x 6.3 mm gold-plated mono jack

Contra headset
- Headband: HB3045C
- Transducer: DD45
- Cable length: 2 m
- Plug type: Straight, 1x 6.3 mm gold-plated mono mini jack
DD450 High frequency headset

The DD450 is a circumaural headset that can be used for audiometry testing in the standard audiometry range 125 Hz - 8 kHz as well as high-frequency testing up to 20 kHz. The DD450 complies with IEC-60645-1 and ANSI S3.6 up to 16 kHz. When using an IEC60318-1 coupler with a type 1 adaptor on an artificial ear, the standard allows for calibration using the RETSPLs.

- RoHS compatible
- Good ambient noise isolation
- Gold-plated connectors
- Capable of full range testing

Audiometric air transducer headsets

RadioEar | Audiometer Allé 1 | 5500 Middelfart | Denmark | www.radioear.us
Air transducer accessories and spare parts

P4421
#8507268

**DD45 transducer**
Audiometric earphones engineered to match the performance and function of the most popular earphones available for audiological testing.

- 10 ohm receiver
- Easy installation
- Reliable
- RoHS compatible

P4421S
#8507271

**DD45S shielded transducer**
The shielded DD45 is designed to prevent the stimulus, which is being delivered to the DD45 transducer, from radiating outward, thus ‘shielding’ the ABR test electrodes from unwanted acoustic artifacts and providing more accurate ABR test results.

- 10 ohm receiver
- Easy installation
- Reliable
- RoHS compatible

P4422
#8121030

**Matched pair of DD45 transducers**
For ease of calibration with certain equipment, the DD45 matched pairs are carefully measured and evaluated to ensure that they have the same sensitivity at all standard audiometric frequencies.

- 10 ohm receiver
- Easy installation
- Reliable
- RoHS compatible

P4423
#8517296

**Matched pair of DD45 transducers**
For ease of calibration with certain equipment, the DD45 matched pairs are carefully measured and evaluated to ensure that they have the same sensitivity at all standard audiometric frequencies.

- 300 ohm receiver
- Easy installation
- Reliable
- RoHS compatible
<table>
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<tr>
<th>Item Code</th>
<th>Catalog Number</th>
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<tbody>
<tr>
<td>P4451</td>
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<td>#8507196</td>
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<td>#8010857</td>
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<tr>
<td>HB3045C</td>
<td>#8507210</td>
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<td>#8517379</td>
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<td>#8507204</td>
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<td>#8507203</td>
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<td>P4431</td>
<td>#8507205</td>
</tr>
</tbody>
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**P4451 #8507206**
Type 51 Ear Cushion
Black, 1 pc.

**P4452 #8507196**
Type 51 Ear Cushion set
Red & Blue, 1 set.

**P4453 #8010857**
Type MX41 Ear Cushion
Black, 1 pc.

**HB3045 #8507208**
Adult Easy Adjust DD45 Headband
Tension: 4.5 N ±0.5N

**P4471 #8507292**
Foam pad for HB3045C headband
10 pcs.

**HB3045C #8507210**
DD45 Contra headband
Tension: 4.5 N ±0.5N

**P4432X #8507204**
Dual Mono earphone cable
Cable length: 5 m
Plug type: 30º, 2x 6.3 mm gold-plated mono jack

**HBA #8010882**
Foldable audiometric headband
Black, foldable.

**RE-7 #8517379**
Headband with 2 yokes
Black.

**P4432 #8507203**
Dual Mono earphone cable
Cable length: 2 m
Plug type: 30º, 2x 6.3 mm gold-plated mono jack

**P4431 #8507205**
Single Mono earphone cable
Cable length: 2 m
Plug type: 30º, 1x 6.3 mm gold-plated mono jack
**P4432Z**  #8107358
Dual Mono earphone cable
- **Cable length:** 2 m
- **Plug type:** Straight, 2x 6.3 mm gold-plated mono jack

**P4425**  #851343
HEX screwdriver for 0.9mm screw

**P4910**  #8010855
Amplivox Audiocups, headset assembled, ex transducers

**P4426**  #8513344
DD45 HEX 0.9mm screw

**P4434**  #8004246
Dual Mono Earphone
- **Cable length:** 2 m
- **Plug type:** straight mini jack 3.5mm

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**HEARING AID MEASUREMENTS**

Anechoic Wedge Room in the RadioEar Laboratory. Engineer William Steele is setting up a hearing aid to be tested in this room. The highly absorbent fiberglass wedges "deaden" sound reflections that might otherwise make measurements inaccurate.
Bone transducer headsets

**P1010**

B71 Bone transducer headset

- Ohm: 10 ohm
- Cable length: 79”/200 cm molded cord
- Plug type: Straight, 1x 6.3 mm gold-plated mono jack
- Headband: P3333

**P1012**

B71 Bone transducer headset

- Ohm: 10 ohm
- Cable length: 79”/200 cm molded cord
- Plug type: 30º, 1x 6.3 mm gold-plated mono jack
- Headband: P3333

**P2010**

B-81 Bone transducer headset

- Ohm: 12.5 ohm
- Cable length: 79”/200 cm molded cord
- Plug type: Straight, 1x 6.3 mm gold-plated mono jack
- Headband: P3333

**P2011**

B-81 Bone transducer headset

- Ohm: 12.5 ohm
- Cable length: 79”/200 cm molded cord
- Plug type: 30º, 1x 6.3 mm gold-plated mono jack
- Headband: P3333
P1030 #8511359

B71 Bone transducer headset with 10 pcs AMBAND elastic bands

- Ohm: 10 ohm
- Cable length: 79”/200 cm molded cord
- Plug type: 30º, 1x 6.3 mm gold-plated mono jack
- Headband: P1188 AMBAND

P2030 #8511361

B-81 Bone transducer headset with 10 pcs AMBAND elastic bands

- Ohm: 12.5 ohm
- Cable length: 79”/200 cm molded cord
- Plug type: 30º, 1x 6.3 mm gold-plated mono jack
- Headband: P1188 AMBAND

AMBAND elastic headband – for a perfect fit

AUTOMATIC COIL WINDING

Rosemary Roberts is operating an automatic-winding machine, producing tiny Radioear coils. This machine winds microphone coils, receiver coils, Phonemaster coils and transformer coils for Radioear hearing aids. Automatic controls permit winding exactly the correct number of turns. Oh many coils the wire is smaller than the diameter of a human hair and one of the spools of wire may contain as much as 25 miles of this fine wire!
Bone transducer accessories and spare parts

B71 lead free std. bone transducer
Since its introduction in the 1970s the RadioEar B71 has been the bone transducer of choice for audiometric testing. In response to RoHS directive 2011/65/EU, which took effect in July 2014, RadioEar has developed the B71 bone transducer.

- Reliable
- RoHS compatible
- Outstanding quality

P1001  #8506731
B71, 10 ohm bone transducer
Ω Ohm: 10 ohm

P1002  #8506732
B71, 50 ohm bone transducer
Ω Ohm: 50 ohm
B-81, 12.5 ohm high output bone transducer

The B-81 is an enhanced bone transducer which achieves higher output levels at low frequencies with a superior distortion performance. With the B-81 it is now possible, for example, to reliably measure bone conduction thresholds up to 50 dBHL at 250 Hz.

The B-81 is based on the Balanced Electro-magnetic Separation Transducer (BEST principle), where static forces are counter-balanced so that non-linear distortion forces are reduced and maximum output levels can be increased. Furthermore, the robust mechanical construction results in a significantly improved shock resistance compared to conventional designs.

The B-81 is compatible with all standard headbands and high quality cables. It also has the capability of using a custom cable designed to securely attach the plug to the transducer body. This safety feature eliminates the risk of accidentally unplugging the device while in use.

- Reliable
- Secured plug concept
- RoHS compatible

P2001 #8506737
B-81, 12.5 ohm bone transducer
Ω Ohm: 12.5 ohm at 1 kHz
P1188

AMBAND elastic headband
10 pcs.

P3288-1

Replacement pad
10 pcs.

P3083

Molded cord for B-81 and B-71
- Cable length: 79”/200 cm
- Plug type: 3.1, straight, 1x 6.3 mm gold-plated mono jack

P3082

Molded cord for B-81 and B-71
- Cable length: 79”/200 cm
- Plug type: 3.1, 30º, 1x 6.3 mm gold-plated mono jack

P3081A

Molded cord for B-81 and B-71
- Cable length: 112”/285 cm
- Plug type: 3.1, straight, 1x 6.3 mm gold-plated mono jack

P3084

Molded cord for B-81 and B-71
- Cable length: 79”/200 cm
- Plug type: 3.1, straight, 1x 6.3 mm gold-plated mono jack

P3085

Molded cord for B-81 and B-71
- Cable length: 79”/200 cm
- Plug type: 3.1 with No Plug

P3086

Molded cord for B-81 and B-71
- Cable length: 79”/200 cm
- Plug type: 3.1, 90º, 1x 3.5 mm gold-plated mono jack
Spare parts for no-safety pin bone conductors

**P3027**  
#8507193  
Molded cord for B71W  
- **Cable length:** 79”/200 cm  
- **Plug type:** No plug

**P3027A**  
#8507202  
Molded cord for B71W  
- **Cable length:** 79”/200 cm  
- **Plug type:** Straight, 1x 6.3 mm gold-plated mono jack

**P3028**  
#8508473  
Molded cord for B71W  
- **Cable length:** 79”/200 cm  
- **Plug type:** 30°, 1x 6.3 mm gold-plated mono jack

**P3024**  
#8507184  
Twisted Pair cord for B71W  
- **Cable length:** 72”/183 cm  
- **Plug type:** No plug

**P3024A**  
#8507187  
Twisted Pair cord for B71W  
- **Cable length:** 72”/183 cm  
- **Plug type:** Straight, 1x 6.3 mm mono jack

**P3024D**  
#8507809  
Twisted Pair cord for B71W  
- **Cable length:** 72”/183 cm  
- **Plug type:** 90°, 1x 6.3 mm stereo jack
Insert earphone transducer headsets
**IP30 Insert earphone**

The IP30 Insert earphone from RadioEar has been designed to meet the ISO 389-2 standard and matches the performance of the most popular insert earphones used in the industry today. These devices have proven to be quite accurate in a variety of testing conditions and are very effective in filtering out unwanted background noise. This makes them an ideal choice for non-ideal examination settings. Additionally, the RadioEar IP30 Insert earphone does not require the use of bulky uncomfortable headbands.

The RadioEar IP30 Insert earphone is available in 10 ohm and 50 ohm impedances, as well as versions designed for use in AEP and contralateral applications.

- Ideal for testing in non-ideal surroundings
- Lightweight and compact
- RoHS compatible

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**P5012**

**IP30 ABR Insert earphone**

- Ohm: 50 ohm
- Cable length: 2.9 m
- Plug type: 30º, 2x 6.3 mm gold-plated mono jack

**P5040**

**IP30 Contra Insert earphone**

- Ohm: 10 ohm
- Cable length: 2 m
- Plug type: 30º, 1x 6.3 mm gold-plated mono jack

**P5013**

**IP30 Insert Earphone**

- Ohm: 50 ohm
- Cable length: 5 m
- Plug type: 30º, 2x 6.3 mm gold-plated mono jack

**P5014**

**IP30 Insert Earphone**

- Ohm: 50 ohm
- Cable length: 5 m
- Plug type: 30º, 2x 6.3 mm gold-plated mono jack

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**IP30 Insert earphone**

The IP30 Insert earphone has been designed to meet the ISO 389-2 standard and matches the performance of the most popular insert earphones used in the industry today. These devices have proven to be quite accurate in a variety of testing conditions and are very effective in filtering out unwanted background noise. This makes them an ideal choice for non-ideal examination settings. Additionally, the RadioEar IP30 Insert earphone does not require the use of bulky uncomfortable headbands.

The RadioEar IP30 Insert earphone is available in 10 ohm and 50 ohm impedances, as well as versions designed for use in AEP and contralateral applications.

- Ideal for testing in non-ideal surroundings
- Lightweight and compact
- RoHS compatible
Insert earphone accessories and spare parts

**P5051**

IP30 Insert earphone cable

- **Cable length:** 2 m
- **Plug type:** 30°, 2x 6.3 mm gold-plated mono jack

**P5052**

IP30 Insert earphone cable

- **Cable length:** 2 m
- **Plug type:** Straight, 2x 6.3 mm gold-plated mono jack
P5053  #8107359
IP30 Contra Insert earphone cable
- Cable length: 2 m
- Plug type: 30º, 1x 6.3 mm gold-plated mono jack

P5054  #8108193
IP30 Contra Insert earphone cable
- Cable length: 0.5 m
- Plug type: Straight, 1x 3.5 mm gold-plated mono mini jack

P5070  #8507327
IP30 Sound tubes incl. tube connectors
1 set.

P5071  #8507328
IP30 Contra sound tube incl. tube connectors and ear tip adaptor

P5072  #8507405
IP30 Sound tubes for the Sanibel™ Infant EarCup™
1 set.

P5073  #8507406
IP30 Sound tubes for the Sanibel™ ADI ear tips
1 set.

P5074  #8507332
IP30 connectors
10 pcs in kit.

P5075  #8507410
IP30 Fastener kit

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RadioEar | Audiometer Allé 1 | 5500 Middelfart | Denmark | www.radioear.us | 35 34 | Insert earphone accessories and spare parts
Speakers & Amplifiers
RadioEar brings you the compact audiometric speakers. With superb sound quality and specification, they will fit perfectly into your office or sound room environment. They have a robust and durable design with no compromise in style.

Available accessories:
#8515346
SP85A Wall mount kit 1pcs.
#8515011
Wall mount kit for SP85A speaker; Sound room speaker

Table Top Active Speaker, pair
Thick MDF walls with internal bracing minimize unwanted resonance and distortion. Heavy internal sound-damping material is used to reduce unwanted sound reflections inside the cabinet. Easily accessible ON/OFF switch on back and removable protective front cover.

Available accessories:
#8506330
SP90A Speaker Mounting Kit

Free Field White 4” Bookshelf speaker (pair)
The SP80 is a speaker specially designed to fit into the stylish environments of hearing aid dispenser clinics. The white casing and front cover ensures a neutral design, not taking away the attention from the clinician performing the test. The speaker fulfill the demands to free field speech testing in a hearing testing environment and is a great option in those cases where a setup is needing to support a certain style in an environment and an amplifier is already available from within the audiometer.

State of the art speaker system for audiometry threshold testing. The SP105 speaker is specifically designed to meet your uppermost demands for free field audiometry testing. It shows outstanding performance, especially with the RadioEar AP70 amplifier, where it will reach 127 dB SPL at 1 kHz with a distortion level less than 1%. 
Free Field Amplifier

A small, stylish and lightweight audiometry amplifier with the heavyweight performance. Class leading fidelity – thanks to innovative input circuits and ‘hum’ elimination. It has multiple input options providing interfaces to all standard audiometer outputs, it is remote controlled on/off from the audiometer.
EMS400 Electret microphone
- Cable length: 1.5 m
- Plug type: 30º, 1x 6.3 mm gold-plated stereo jack

EMS400 Electret microphone mini jack
- Cable length: 1.5 m
- Plug type: Straight, 1x 3.5 mm gold-plated stereo mini jack
Improve Quality

RadioEar’s wide-range of product offerings includes a full line of audiometric transducers and accessories.

RadioEar’s bone transducers have survived the test of time. For nearly a century, RadioEar transducers have been recognized world-wide for their enduring value. With our expanding product line, RadioEar customers now enjoy the convenience and savings of buying audiometric transducers and a complete line of compatible accessories from a single reliable source. Our customer care team is skilled in managing international sales and serving both large and small customers alike.

RadioEar’s attention to quality and commitment to customer satisfaction has made RadioEar products a favorite of audiometer manufacturers around the globe since 1950.
Nearly a century of innovation and evolution
with a constant focus on the needs of the audiology community

RadioEar was founded in June 1924 by Edward A. Myers. Known as ‘E.A.’ to his employees and associates, Myers began his career in 1896 as an attorney in Indiana and had become an exceptionally trial lawyer when he developed a serious hearing impairment shortly after the turn of the century. The hearing loss prevented him from continuing as a lawyer, so he entered and successfully pursued another field, that of engine manufacturing, including the manufacturing of the ‘Great Western’ automobile.

E. A. moved to Pittsburgh in 1912 and was exposed to the first broadcasting in the world from radio station KDKA. Unfortunately, his hearing loss prevented him from being able to hear anything at all on the ‘crystal’ set. E. A. and a Westinghouse engineer, George F. Harrington, then built a vacuum tube radio that was six feet long and powered by automobile batteries providing a total of 135 volts.

Using a headset, E.A. listened to the June 25, 1924 broadcast of the National Democratic Convention; he was able to hear the broadcast very well and the concept of RadioEar was born. The first 185 lb. cabinet model hearing aid was completed by September 15, 1924 and was called RadioEar. Samuel F. Lybarger, son-in-law of E. A. Myers, joined the company in June 1930. Sam was the chief engineer for RadioEar from then until his retirement in 1973. Sam was a leader in the field of hearing health care, wrote many articles and held many patents.

RadioEar introduced the first magnetic microphone for use with hearing aids in 1946. Sam Lybarger invented the bone conduction transducer in 1948-49, with the first sales in 1950. The model B71 bone vibrator was introduced in 1973 and has remained the accepted standard of the industry.

RadioEar was sold to Esterline Corporation in 1970 and then sold on to Page Mill I in 1978. Three long-time employees of RadioEar, Harold Holsopple, Walter Piroth and Andrew Kriceri purchased RadioEar in 1982. RadioEar ceased the manufacturing of hearing aids in the mid 1980s and concentrated on the production and sale of bone vibrators. The primary use of the RadioEar B71 bone vibrator was with audiometers in diagnostic testing.

While continuing to produce the world’s dominant bone conductor, RadioEar has constantly sought out new technologies to enhance their transducers. This search has, for example, resulted in a very fruitful collaboration which led to the introduction of the B-81 to the RadioEar portfolio. The balanced armature of the B-81 permits higher output levels at low frequencies with less distortion.

From 2000 and onwards, RadioEar has been able to benefit from even greater partnership opportunities leading to recent expansion of the RadioEar product line which now includes air transducers, headsets, insert earphones and speakers.
Services

Our customer care team is skilled in managing international sales and serving both large and small customers alike.
“Quality of service is just as important as quality of product”

E. A. Myers, Founder, RadioEar