The development of dynamic headphones and microphones are milestones in beyerdynamic’s history. Founded in Berlin in 1924, today the company, which is headquartered in Heilbronn, is one of the leading suppliers for headphones, microphones, headsets and conference systems. beyerdynamic develops and produces innovative solutions in Germany for an ever-growing clientele with high quality requirements.

**DT 1350 | HEADPHONES**

**Closed supraural headphone for control and monitoring applications, musicians and DJ’s.**

- Supraural, lightweight and robust design
- Tesla Technology with highest efficiency
- Excellent ambient noise attenuation
- Flexible split headband
- 90° swivelling earcups
- Soft-Skin earpads and headband for good wearer comfort
- Carry bag included

**Headphone**

<table>
<thead>
<tr>
<th>Dynamic</th>
<th>Closed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transducer type</td>
<td>Operating principle</td>
</tr>
<tr>
<td>Supraural</td>
<td>Supraural</td>
</tr>
<tr>
<td>Frequency response</td>
<td>Nominal impedance</td>
</tr>
<tr>
<td>5 - 30,000 Hz</td>
<td>80 Ω</td>
</tr>
<tr>
<td>Max. SPL</td>
<td>Power handling capacity</td>
</tr>
<tr>
<td>129 dB</td>
<td>100 mW</td>
</tr>
<tr>
<td>Ambient noise attenuation</td>
<td>Nominal headband pressure</td>
</tr>
<tr>
<td>approx. 23 dB</td>
<td>approx. 5.5 N</td>
</tr>
<tr>
<td>Weight (without cable)</td>
<td>Connector</td>
</tr>
<tr>
<td>174 g</td>
<td>Gold plated mini stereo jack plug (3.5 mm) and 1/4&quot; - adaptor (6.35 mm)</td>
</tr>
</tbody>
</table>

**Version**

<table>
<thead>
<tr>
<th>DT 1350</th>
<th>80 Ω, 1.5 m (4.92 ft) / straight cable</th>
</tr>
</thead>
</table>

**Accessories**

<table>
<thead>
<tr>
<th>EDT 1350 VB</th>
<th>Ear cushions pair, velours, black</th>
</tr>
</thead>
</table>

**TESLA TECHNOLOGY**

The completely re-engineered Tesla sound transducers help achieve almost lossless magnetic flux. This is made possible by the brand new system geometry, which allows the transfer of magnetic force to the voice coil to be as efficient as possible. Traditional dynamic systems use a neodymium magnet at the centre of the system, the size of which was inevitably limited inside the voice coil. The Tesla principle sees the magnet mounted as a ring around the coil, allowing more energy to be directed to the membrane, which is exactly where it is required.

The exceptionally pure sound produced by the Tesla systems is the result of the close attention to countless small details. Especially noteworthy is the ring-shaped magnet which allows a drill-hole directly behind the centre of the membrane in order to minimise disruptive resonances. The use of a special, multilayer membrane effectively suppresses unwanted partial vibrations and resultant distortion.

Another special feature of the Tesla systems is their full-metal design. This prevents any uncontrolled resonances in any part of the casing, which might in turn distort the sound. The metal also protects the device against electrical interference.
# PROFESSIONAL HEADPHONES AND HEADSETS

## DT 700 SERIES

**Headphones**

**dT 770 PRO**
- Closed reference headphone for control and monitoring applications.
- Diffuse-field closed studio headphone.
- "Bass reflex" technology for improved bass response.
- Comfortable fit due to rugged, adjustable, soft padded headband construction.
- Robust, easy serviceable construction as all parts are replaceable.
- Single-sided cable.
- Velours, circumaural ear pads.

**dT 770 M**
- Closed headphone for drummers and monitoring purposes (Foh), with extreme isolation against ambient noise.
- Excellent ambient noise attenuation (35 dBA).
- Superb sound quality with high sound pressure level (105 dB).
- Extended frequency range.
- Single-sided cable with volume control.
- Robust, easy serviceable construction as all parts are replaceable.
- Excellent comfort for long-term wearing, softskin ear pads.
- Secure and comfortable fit due to rugged, adjustable headband construction with soft padding.
- Supplied in a carrying case (nylon).

**dT 880 Pro**
- Semi-open reference headphone for monitoring applications.
- Diffuse-field semi-open studio headphone.
- "Bass reflex" technology for improved bass response.
- Comfortable fit due to rugged, adjustable, soft padded headband construction.
- Robust, easy serviceable construction as all parts are replaceable.
- Single-sided cable.
- Velours, circumaural ear pads.
- Supplied in a carrying case (nylon).

**dT 990 Pro**
- Professional acoustically open headphone for monitoring and studio applications.
- Diffuse-field open studio headphone.
- Professional version of the many times awarded “DT 990”.
- Extremely lightweight diaphragm for superb impulse performance.
- Excellent sound reproduction.
- Comfortable fit due to rugged, adjustable, soft padded headband construction.
- Robust, easy serviceable construction as all parts are replaceable.
- Single-sided cable.
- Velours, circumaural ear pads.

### Headphone Specifications

<table>
<thead>
<tr>
<th>Headphone</th>
<th>Transducer type</th>
<th>Operating principle</th>
<th>Frequency response</th>
<th>Nominal impedance</th>
<th>Power handling capacity</th>
<th>Average pressure on ears</th>
<th>Weight without cable</th>
<th>Length and type of cable</th>
<th>Connection</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT 770 PRO</td>
<td>Dynamic</td>
<td>Closed</td>
<td>5 - 35,000 Hz</td>
<td>80 Ω / 250 Ω</td>
<td>100 mW</td>
<td>approx. 18 dBA</td>
<td>3.5 N</td>
<td>270 g</td>
<td>3.0 m (9.84 ft) / straight cable (80 Ω Version) 3.0 m (9.84 ft) / coiled cable (250 Ω Version)</td>
<td>Gold plated stereo jack plug (3.5 mm) and 1/4&quot; adapter (6.35 mm)</td>
</tr>
<tr>
<td>DT 770 M</td>
<td>Dynamic</td>
<td>Closed</td>
<td>5 - 35,000 Hz</td>
<td>80 Ω</td>
<td>100 mW</td>
<td>approx. 35 dBA</td>
<td>6.5 N</td>
<td>300 g</td>
<td>3.0 m (9.84 ft) / straight cable with volume control</td>
<td>Gold plated stereo jack plug (3.5 mm) and 1/4&quot; adapter (6.35 mm)</td>
</tr>
<tr>
<td>DT 880 Pro</td>
<td>Dynamic</td>
<td>Semi-open</td>
<td>5 - 35,000 Hz</td>
<td>250 Ω</td>
<td>100 mW</td>
<td>3.5 N</td>
<td>295 g</td>
<td>3.0 m (9.84 ft) / coiled cable</td>
<td>Gold plated stereo jack plug (3.5 mm) and 1/4&quot; adapter (6.35 mm)</td>
<td>DT-Bag, incl. DT-Bag (Art.-No. 490.970) EDT 770 S Ear cushions pair, velours, black (Art.-No. 906.166)</td>
</tr>
<tr>
<td>DT 990 Pro</td>
<td>Dynamic</td>
<td>Open</td>
<td>5 - 35,000 Hz</td>
<td>250 Ω</td>
<td>100 mW</td>
<td>3.5 N</td>
<td>250 g</td>
<td>3.0 m (9.84 ft) / coiled cable</td>
<td>Gold plated stereo jack plug (3.5 mm) and 1/4&quot; adapter (6.35 mm)</td>
<td>DT-Bag (Art.-No. 590.959) EDT 990 S Ear pads, Soft-Skin (Art.-No. 904.791)</td>
</tr>
</tbody>
</table>

### Transducer Specifications

<table>
<thead>
<tr>
<th>Headphone</th>
<th>Transducer type</th>
<th>Operating principle</th>
<th>Frequency response</th>
<th>Nominal impedance</th>
<th>Power handling capacity</th>
<th>Average pressure on ears</th>
<th>Weight without cable</th>
<th>Length and type of cable</th>
<th>Connection</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT 770 PRO</td>
<td>Dynamic</td>
<td>Closed</td>
<td>5 - 35,000 Hz</td>
<td>80 Ω / 250 Ω</td>
<td>100 mW</td>
<td>approx. 18 dBA</td>
<td>3.5 N</td>
<td>270 g</td>
<td>3.0 m (9.84 ft) / straight cable (80 Ω Version) 3.0 m (9.84 ft) / coiled cable (250 Ω Version)</td>
<td>Gold plated stereo jack plug (3.5 mm) and 1/4&quot; adapter (6.35 mm)</td>
</tr>
<tr>
<td>DT 770 M</td>
<td>Dynamic</td>
<td>Closed</td>
<td>5 - 35,000 Hz</td>
<td>80 Ω</td>
<td>100 mW</td>
<td>approx. 35 dBA</td>
<td>6.5 N</td>
<td>300 g</td>
<td>3.0 m (9.84 ft) / straight cable with volume control</td>
<td>Gold plated stereo jack plug (3.5 mm) and 1/4&quot; adapter (6.35 mm)</td>
</tr>
<tr>
<td>DT 880 Pro</td>
<td>Dynamic</td>
<td>Semi-open</td>
<td>5 - 35,000 Hz</td>
<td>250 Ω</td>
<td>100 mW</td>
<td>3.5 N</td>
<td>295 g</td>
<td>3.0 m (9.84 ft) / coiled cable</td>
<td>Gold plated stereo jack plug (3.5 mm) and 1/4&quot; adapter (6.35 mm)</td>
<td>DT-Bag, incl. DT-Bag (Art.-No. 490.970) EDT 770 S Ear cushions pair, velours, black (Art.-No. 906.166)</td>
</tr>
<tr>
<td>DT 990 Pro</td>
<td>Dynamic</td>
<td>Open</td>
<td>5 - 35,000 Hz</td>
<td>250 Ω</td>
<td>100 mW</td>
<td>3.5 N</td>
<td>250 g</td>
<td>3.0 m (9.84 ft) / coiled cable</td>
<td>Gold plated stereo jack plug (3.5 mm) and 1/4&quot; adapter (6.35 mm)</td>
<td>DT-Bag (Art.-No. 590.959) EDT 990 S Ear pads, Soft-Skin (Art.-No. 904.791)</td>
</tr>
</tbody>
</table>

### Additional Notes

- **Versions**
  - **DT 770 PRO**: 80 Ω, 3.0 m (9.84 ft) / straight cable.
  - **DT 770 PRO**: 250 Ω, 3.0 m (9.84 ft) / coiled cable.
  - **Accessories**: DT-Bag, Carry bag, nylon, black.

- **DT 770 M**: 80 Ω, 3.0 m (9.84 ft) / straight cable, with volume control, incl. DT-Bag.
  - **Accessories**: EDT 770 VB Ear cushions pair, velours, black (Art.-No. 906.166).

- **DT 880 PRO**: 250 Ω, 3.0 m (9.84 ft) / coiled cable, incl. DT-Bag.
  - **Accessories**: EDT 990 S Ear cushions pair, softskin (Art.-No. 904.791).

- **DT 990 PRO**: 250 Ω, 3.0 m (9.84 ft) / coiled cable.
  - **Accessories**: DT-Bag, Carry bag, nylon, black (Art.-No. 590.959) EDT 990 S Ear pads, Soft-Skin (Art.-No. 904.791).
### DT 700 SERIES | HEADSETS

**DT 790**
- Closed headphone with dynamic microphone for intercom use in loud environments.
  - Excellent ambient noise attenuation
  - High-quality dynamic hyper-cardioid microphone with very high gain before-feedback
  - Robust, easy serviceable construction as all parts are replaceable
  - Single-sided cable
  - Comfortable fit due to rugged, adjustable, soft padded headband construction
  - Softskin, circumaural ear pads

**DT 797 PV**
- Headset with condenser microphone for use in loud environments.
  - Improvement of immunity against RFI (Radio Frequency Interference) caused by GSM, DECT, UMTS, Tetra, etc.
  - Excellent ambient noise attenuation
  - High-quality condenser microphone for improved bass response and high gain before-feedback
  - Very high speech reproduction quality and excellent intelligibility
  - Prestable, flexible gooseneck for optimal positioning with exchangeable microphone suspension
  - Robust, easy serviceable construction as all parts are replaceable
  - Single-sided cable

### DT 200 SERIES | HEADPHONES / HEADSETS

**DT 250 | DT 252**
- Lightweight, low profile, closed headphone for broadcast, recording studios and intercom applications.
  - Closed headphone
  - Good ambient noise attenuation
  - Lightweight, low profile design
  - Single-sided, detachable cable
  - Powerful neodymium headphone system for excellent reproduction accuracy
  - Balanced sound impression
  - Circumaural ear pads, advanced ear cushion system
  - Adjustable, soft padded headband
  - Service-friendly construction due to exchangeability of all parts

**DT 291 PV**
- Headset with condenser microphone (omnidirectional) for commentators and studio applications (film scoring).
  - Improvement of immunity against RFI (Radio Frequency Interference) caused by GSM, DECT, UMTS, Tetra, etc.
  - Very high speech reproduction quality and excellent intelligibility
  - Flexible, pivotable gooseneck for optimal positioning
  - Single-sided, detachable cable
  - Powerful neodymium headphone system for excellent reproduction accuracy
  - Optimized frequency response according to IRT (Institute for Radio-technology in Munich) regulations
  - Circumaural ear pads, advanced ear cushion system
  - Adjustable, soft padded headband

### Headphones / Headsets Specifications

<table>
<thead>
<tr>
<th>Headphone</th>
<th>Transducer type</th>
<th>Operating principle</th>
<th>Frequency response</th>
<th>Nominal impedance</th>
<th>Power handling capacity</th>
<th>Ambient noise attenuation</th>
<th>Average pressure on ears</th>
<th>Length and type of cable</th>
<th>Weight without cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT 790</td>
<td>Dynamic</td>
<td>Closed</td>
<td>5 - 30,000 Hz</td>
<td>80 Ω</td>
<td>100 mW</td>
<td>approx. 35 dBA</td>
<td>5.5 N</td>
<td>3.0 m (9.84 ft) / straight cable</td>
<td>470 g</td>
</tr>
<tr>
<td>DT 797 PV</td>
<td>Dynamic</td>
<td>Closed</td>
<td>250 Ω</td>
<td>100 mW</td>
<td>approx. 20 dBA</td>
<td>4.5 N</td>
<td>395 g</td>
<td>1/4&quot; (6.35 mm) stereo jack</td>
<td>3.0 m (9.84 ft) / straight cable</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Headset</th>
<th>Transducer type</th>
<th>Operating principle</th>
<th>Frequency response</th>
<th>Nominal impedance</th>
<th>Power handling capacity</th>
<th>Ambient noise attenuation</th>
<th>Average pressure on ears</th>
<th>Length and type of cable</th>
<th>Weight without cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT 250</td>
<td>Dynamic</td>
<td>Closed</td>
<td>80 Ω / 250 Ω</td>
<td>100 mW</td>
<td>approx. 16 dBA</td>
<td>4.5 N</td>
<td>240 g</td>
<td>1/4&quot; and 1/4° (6.35 mm) adapter</td>
<td>240 g</td>
</tr>
<tr>
<td>DT 252</td>
<td>Dynamic</td>
<td>Closed</td>
<td>10 - 30,000 Hz</td>
<td>80 Ω / 250 Ω</td>
<td>100 mW</td>
<td>approx. 16 dBA</td>
<td>4.5 N</td>
<td>250 Ω</td>
<td>1/4° (6.35 mm) adapter</td>
</tr>
</tbody>
</table>

### Accessories

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Art.-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDT 770 VB</td>
<td>Carry bag, nylon, black</td>
<td>Art.-No. 906.166</td>
</tr>
<tr>
<td>EDT 770 VB</td>
<td>Ear cushions pair, velours, black</td>
<td>Art.-No. 906.166</td>
</tr>
<tr>
<td>DT Bag</td>
<td>Carry bag, nylon, black</td>
<td>Art.-No. 590.959</td>
</tr>
<tr>
<td>DT Bag</td>
<td>Ear cushions pair, velours, black</td>
<td>Art.-No. 906.166</td>
</tr>
<tr>
<td>DT Bag</td>
<td>Carry bag, nylon, black</td>
<td>Art.-No. 590.959</td>
</tr>
<tr>
<td>DT Bag</td>
<td>Ear cushions pair, softskin</td>
<td>Art.-No. 943.549</td>
</tr>
</tbody>
</table>

**DT 250 PV MK II**
- Headset, 80 Ω, omnidirectional condenser microphone, with integrated preamp for phantom powering.
  - Headphone, 80 Ω, omnidirectional condenser microphone, with integrated preamp for phantom powering
  - Art.-No. 701.440
  - Art.-No. 701.459

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Art.-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDT 250 S</td>
<td>Ear cushions pair, softskin</td>
<td>Art.-No. 943.549</td>
</tr>
<tr>
<td>DT 291 PV</td>
<td>Same as above, but 250 Ω</td>
<td>Art.-No. 701.459</td>
</tr>
</tbody>
</table>

**DT 291 PV MK II**
- Headset, 80 Ω, omnidirectional condenser microphone, with integrated preamp for phantom powering
  - Headphone, 80 Ω, omnidirectional condenser microphone, with integrated preamp for phantom powering
  - Art.-No. 701.440
  - Art.-No. 701.459
### DT 200 SERIES | HEADSETS

**DT 280 | DT 290**

Light headset with dynamic microphone for on-air commentary, sportscasters, intercom and talkback systems.

- Good ambient noise attenuation
- High-quality dynamic hypercardioid microphone with very high gain-before-feedback
- Flexible, pivotable gooseneck for optimal positioning
- Single-sided, detachable cable
- Powerful neodymium headphone system for excellent reproduction accuracy
- Balanced sound impression
- Circumaural ear pads, advanced ear cushion system
- Adjustable, soft padded headband

**Headphone**
- Transducer type: dynamic
- Operating principle: closed
- Frequency response: 10 - 30,000 Hz
- Nominal impedance: 80 Ω / 250 Ω
- Power handling capacity: 100 mW
- Average pressure on ears: approx. 16 dBA
- Weight without cable: 170 g (DT 280) / 240 g (DT 290)

**Microphone**
- Transducer type: dynamic
- Frequency response: 40 - 12,000 Hz
- Polar pattern: hypercardioid
- Nominal impedance: 200 Ω

**Versions**
- **DT 280 MK II** Single-sided version, 200/80 Ω
- **DT 280 MK II** Same as above, but 200/250 Ω
- **DT 280 V.11 MK II** Single-sided version, 200/80 Ω, with pre-amplifier
- **DT 290 MK II** Headset, 200/80 Ω
- **DT 290 MK II** Same as above, but 200/250 Ω
- **DT 290 V.11 MK II** Headset, 200/80 Ω, with pre-amplifier

**Accessories**
- DT-Bag Carry bag, nylon, black
- EDT 250 S Ear cushions pair, softskin

**DT 287 | DT 297**

Headset with condenser microphone for on-air news and sports commentators.

- Improvement of immunity against RFI (Radio Frequency Interference) caused by GSM, DECT, UMTS, Tetra, etc.
- Good ambient noise attenuation
- High-quality condenser cardioid microphone for improved bass response and high gain-before-feedback
- Very high speech reproduction quality and excellent intelligibility
- Flexible, pivotable gooseneck for optimal positioning with electrical microphone suspension
- Single-sided, detachable cable
- Powerful neodymium headphone system for excellent reproduction accuracy
- Optimised frequency response according to IRT (Institute for Radiotechnology in Munich) regulations
- Balanced sound impression
- Circumaural ear pads, advanced ear cushion system
- Adjustable, soft padded headband

**Headphone**
- Transducer type: dynamic
- Operating principle: closed
- Frequency response: 10 - 30,000 Hz
- Nominal impedance: 80 Ω / 250 Ω
- Power handling capacity: 100 mW
- Average pressure on ears: approx. 16 dBA
- Weight without cable: 170 g (DT 287) / 240 g (DT 297)

**Microphone**
- Transducer type: condenser (back-electret)
- Frequency response: 40 - 20,000 Hz
- Polar pattern: cardioid
- Nominal impedance: approx. 300 Ω
- Max. SPL: 132 dB
- Phantom supply: 12 - 48 V

**Versions**
- **DT 287 PV MK II** Single-sided version, 80 Ω, cardioid condenser microphone, with integrated power supply for phantom powering
- **DT 287 V.11 MK II** Single-sided version, 80 Ω, cardioid condenser microphone, with integrated microphone pre-amp
- **DT 297 PV MK II** Headset, 80 Ω, cardioid condenser microphone, with integrated power supply for phantom powering
- **DT 297 MK II** Same as above, but 250 Ω
- **DT 297 V.11 MK II** Headset, 80 Ω, cardioid condenser microphone, with integrated microphone pre-amp

**Accessories**
- DT-Bag Carry bag, nylon, black
- EDT 250 S Ear cushions pair, softskin

All DT 280 / DT 290 versions are supplied without connecting cable. Please order the necessary connecting cable. Refer to page 19.

All DT 287 / DT 297 versions are supplied without connecting cable. Please order the necessary connecting cable. Refer to page 19.
### DT 231 PRO
Closed lightweight headphone for studio and stage applications.
- Closed headphone
- Lightweight, low profile design
- Supraural ear pads
- Good sound impression
- Powerful low frequency response
- Single-sided, straight cable

### DT 234 PRO
Lightweight headset for multimedia applications (e.g. video conferencing, voice IP etc.) and broadcast applications.
- Closed headphone
- Lightweight, low profile design
- Supraural ear pads
- Noise-canceling condenser cardioid microphone with high speech reproduction quality
- Single-sided, straight cable
- Connection through two 3.5 mm stereo jacks, compatible with most PC Soundcards

### DT 150
Closed monitoring headphone for use in loud environments and broadcast, film and recording studios.
- Closed headphone
- Excellent ambient noise attenuation
- Powerful neodymium headphone system for excellent reproduction accuracy
- Wide frequency response (5 - 30,000 Hz)
- Capable of handling very high SPL
- Rugged, easy serviceable construction as all parts are replaceable
- Single-sided, detachable cable
- Circumaural ear pads
- Excellent comfort for long-term wearing

### DT 190
Professional headset with balanced microphone for on-air commentary requiring broadcast quality.
- Powerful neodymium headphone system for excellent reproduction accuracy
- Excellent ambient noise attenuation
- High quality, dynamic noise cancelling symmetrical hypercardioid microphone with wide frequency response
- Excellent intelligibility
- Capable of handling very high SPL
- Rugged, easy serviceable construction as all parts are replaceable
- Single-sided, detachable cable
- Closed headphone
- Softskin, circumaural ear pads
- Excellent comfort for long-term wearing

### Headphones / Headsets

<table>
<thead>
<tr>
<th>Model</th>
<th>Transducer type</th>
<th>Operating principle</th>
<th>Frequency response</th>
<th>Nominal impedance</th>
<th>Power handling capacity</th>
<th>Ambient noise attenuation</th>
<th>Average pressure on ears</th>
<th>Weight without cable</th>
<th>Length and type of cable</th>
<th>Connection</th>
<th>Microphone</th>
<th>Transducer type</th>
<th>Frequency response</th>
<th>Polar pattern</th>
<th>Nominal impedance</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT 231 PRO</td>
<td>Dynamic</td>
<td>Closed</td>
<td>Supraural</td>
<td>20 - 18,000 Hz</td>
<td>32 Ω</td>
<td>2 N</td>
<td>130 g</td>
<td>2.5 m (8.2 ft) / straight cable</td>
<td>Mini stereo jack plug (3.5 mm) and 1/4” adapter (6.35 mm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DT 234 PRO</td>
<td>Dynamic</td>
<td>Closed</td>
<td>Supraural</td>
<td>20 - 18,000 Hz</td>
<td>32 Ω</td>
<td>2 N</td>
<td>155 g</td>
<td>2.5 m (8.2 ft) / straight cable</td>
<td>Mini stereo jack plug (3.5 mm) and 1/4” adapter (6.35 mm)</td>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>DT 150</td>
<td>Dynamic</td>
<td>Closed</td>
<td>Supraural</td>
<td>5 - 30,000 Hz</td>
<td>250 Ω</td>
<td>approx. 20 dBA</td>
<td>4.5 N</td>
<td>250 g</td>
<td>3.0 m (9.84 ft) / straight cable</td>
<td>Gold plated mini stereo jack plug (3.5 mm) and 1/4” adapter (6.35 mm)</td>
<td></td>
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<tr>
<td>DT 190</td>
<td>Dynamic</td>
<td>Closed</td>
<td>Supraural</td>
<td>5 - 30,000 Hz</td>
<td>250 Ω</td>
<td>approx. 20 dBA</td>
<td>4.5 N</td>
<td>350 g</td>
<td>3.0 m (9.84 ft) / straight cable</td>
<td>Gold plated mini stereo jack plug (3.5 mm) and 1/4” adapter (6.35 mm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Headphone Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Transducer type</th>
<th>Frequency response</th>
<th>Nominal impedance</th>
<th>Power handling capacity</th>
<th>Ambiant noise attenuation</th>
<th>Average pressure on ears</th>
<th>Weight without cable</th>
<th>Length and type of cable</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>DT 231 PRO</td>
<td>Dynamic</td>
<td>20 - 18,000 Hz</td>
<td>32 Ω</td>
<td>2 N</td>
<td>130 g</td>
<td>2.5 m (8.2 ft) / straight cable</td>
<td>Mini stereo jack plug (3.5 mm) and 1/4” adapter (6.35 mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DT 234 PRO</td>
<td>Dynamic</td>
<td>20 - 18,000 Hz</td>
<td>32 Ω</td>
<td>2 N</td>
<td>155 g</td>
<td>2.5 m (8.2 ft) / straight cable</td>
<td>Mini stereo jack plug (3.5 mm) and 1/4” adapter (6.35 mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DT 150</td>
<td>Dynamic</td>
<td>5 - 30,000 Hz</td>
<td>250 Ω</td>
<td>100 mW</td>
<td>approx. 20 dBA</td>
<td>4.5 N</td>
<td>250 g</td>
<td>3.0 m (9.84 ft) / straight cable</td>
<td>Gold plated mini stereo jack plug (3.5 mm) and 1/4” adapter (6.35 mm)</td>
</tr>
<tr>
<td>DT 190</td>
<td>Dynamic</td>
<td>5 - 30,000 Hz</td>
<td>250 Ω</td>
<td>100 mW</td>
<td>approx. 20 dBA</td>
<td>4.5 N</td>
<td>350 g</td>
<td>3.0 m (9.84 ft) / straight cable</td>
<td>Gold plated mini stereo jack plug (3.5 mm) and 1/4” adapter (6.35 mm)</td>
</tr>
</tbody>
</table>

### Footnotes
- DT 190 is supplied without connecting cable. Please refer to page 19.
The worldwide standard closed headphone for intercom, monitoring, ENG/FP and live-applications.

- Closed headphone
- Legendary, classic design
- Excellent ambient noise attenuation
- Capable of handling very high SPL
- Single-sided, detachable cable
- Circumaural ear pads
- Excellent comfort for long-term wearing

### Headphone

- **Transducer type**: Dynamic
- **Operating principle**: Closed
- **Frequency response**: 30 – 20,000 Hz
- **Nominal impedance**: 16 Ω / 400 Ω ± 10%
- **Power handling capacity**: 1000 mW
- **Ambient noise attenuation**: 20 dBa
- **Average pressure on ears**: 4.5 N
- **Length and type of cable**: 3.0 m (9.84 ft) straight cable
- **Connection**: Gold-plated mini stereo jack plug (3.5 mm) and 1/4" adapter (6.35 mm)

### Accessories

- **EDT 100 P**: Ear cushions pair, plush, black, suitable for the tropics
- **EDT 100 T**: Ear cushions pair, cotton jersey, black, suitable for the tropics

### Versions

- **DT 100 400 Ω**, grey, 3.0 m (9.84 ft) / straight cable  
  Art.-No. 421.022
- **DT 100 same as above, but 16 Ω**  
  Art.-No. 474.169
- **DT 100 400 Ω, black, 3.0 m (9.84 ft) / straight cable**  
  Art.-No. 421.464
- **DT 100 same as above, but 16 Ω**  
  Art.-No. 474.177
- **DT 102 single-sided version, 400 Ω, grey, 3.0 m (9.84 ft) / straight cable**  
  Art.-No. 421.561
- **DT 102 same as above, but 16 Ω**  
  Art.-No. 474.185

### DT 108 | DT 109

The worldwide headset standard for live, remote broadcasting, studio, film, TV and language lab applications.

- Closed headphone
- Highly sensitive headphone and microphone transducers
- Legendary, classic design
- Excellent ambient noise attenuation
- Capable of handling very high SPL
- Single-sided, detachable cable
- Circumaural ear pads
- Excellent comfort for long-term wearing

### Headphone

- **Transducer type**: Dynamic
- **Operating principle**: Closed
- **Frequency response**: 30 – 20,000 Hz
- **Nominal impedance**: 200 Ω / 400 Ω ± 10%
- **Power handling capacity**: 1000 mW
- **Ambient noise attenuation**: approx. 20 dBa
- **Average pressure on ears**: approx. 4.5 N
- **Weight without cable**: 283 g (DT 108)
  390 g (DT 109)

### Microphone

- **Transducer type**: Dynamic
- **Frequency response**: 40 – 12,000 Hz
- **Polar pattern**: Hypercardioid
- **Nominal impedance**: 200 Ω

### Accessories

- **EDT 100 P**: Ear cushions pair, plush, black, suitable for the tropics  
  Art.-No. 945.576
- **EDT 100 T**: Ear cushions pair, cotton jersey, black, suitable for the tropics  
  Art.-No. 945.584

### Versions

- **DT 108**: Single-ear-headset, 200/50 Ω, grey  
  Art.-No. 131.342
- **DT 108 same as above, but black**  
  Art.-No. 402.958
- **DT 108 single-ear-headset, 200/400 Ω, grey**  
  Art.-No. 101.702
- **DT 108 same as above, but black**  
  Art.-No. 402.966
- **DT 109**: Headset, 200/50 Ω, grey  
  Art.-No. 101.877
- **DT 109 same as above, but black**  
  Art.-No. 402.974
- **DT 109 Headset, 200/400 Ω, grey**  
  Art.-No. 101.885
- **DT 109 same as above, but black**  
  Art.-No. 402.982

### Accessories

- **EDT 100 P**: Ear cushions pair, plush, black, suitable for the tropics  
  Art.-No. 945.576
- **EDT 100 T**: Ear cushions pair, cotton jersey, black, suitable for the tropics  
  Art.-No. 945.584

All DT 108 / DT 109 versions are supplied without connecting cable. Please order the necessary connecting cable. Refer to page 18.
Professional Headphones and Headsets

Professional headsets and headsets with integrated limiter. Protect your hearing!

by beyerdynamic professional series headphones and headsets can now be ordered with a high quality integrated level limiter. This new option, available throughout the range guarantees that an operator’s hearing is protected when the headphone is used over a prolonged period.

Designed to meet health and safety criteria, our passive circuitry which protects when the headphone is used over a prolonged period. Our clever two-phase limiting concept incorporates firstly a dynamic monitoring headphone for all sound recordings.

Meets the standards set by Nagra recorders, DAT and MD portable recorders

High degree of efficiency

Flat accurate frequency response

Good ambient noise attenuation

Rugged construction

Nickel-plated spring steel, adjustable headband

Rugged construction

Flat accurate frequency response

High degree of efficiency

Excellent comfort for long-term wearing

Single-sided cable

Dynamic monitoring headphone for all sound recordings

Meet the standards set by Nagra recorders, DAT and MD portable recorders

High degree of efficiency

Flat accurate frequency response

Good ambient noise attenuation

Rugged construction

Nickel-plated spring steel, adjustable headband

Excellent comfort for long-term wearing

Single-sided cable

Frequency response 16 - 20,000 Hz

Nominal impedance 50 Ohm

Power delivery capacity 200 mW

Ambient noise attenuation 12 dB

Average pressure on ears 5 N

Weight without cable 400 g

Length and type of cable 3.0 m (9.84 ft) / straight cable with free ends

Versions

DT 250 with limiter and cable Art.-No. 497.924

DT 250 with limiter and cable Art.-No. 497.142

DT 251 with limiter and cable Art.-No. 497.266

DT 280 with limiter and cable Art.-No. 497.983

DT 280 with limiter and cable Art.-No. 497.975

DT 290 with limiter and cable Art.-No. 498.033

DT 290 with limiter and cable Art.-No. 497.851

DT 291 with limiter and cable 250 Ohm condenser microphone (omni-directional), with limiter, without cable Art.-No. 488.615

DT 291 with limiter and cable 250 Ohm condenser microphone (omni-directional), with limiter, without cable Art.-No. 498.017

DT 287 with limiter and cable Single-sided version, 80 Ohm, cardioid condenser microphone with limiter, without cable Art.-No. 498.076

DT 287 with limiter and cable Single-sided version, 250 Ohm, cardioid condenser microphone with limiter, without cable Art.-No. 498.025

DT 297 with limiter and cable 250 Ohm, cardioid condenser microphone, with limiter, without cable Art.-No. 490.881

DT 297 with limiter and cable Same as above, but 250 Ohm with limiter Art.-No. 498.114

DT 297 with limiter and cable Same as above, but 250 Ohm with limiter Art.-No. 497.215

DT 297 with limiter and cable Same as above, but 250 Ohm with limiter Art.-No. 497.267

DT 297 with limiter and cable Same as above, but 250 Ohm with limiter Art.-No. 497.908

DT 297 with limiter and cable 250 Ohm, with limiter and cable Art.-No. 497.916

INTEGRATED LIMITER

HEADZONE® PRO – PRO XT V2.1

5.1 Monitoring-Headphone System

The “Headzone®” 5.1 surround-sound headphone system is the first mobile headphone system in the world to offer professional monitoring with virtual 5.1 playback.

The sound quality is on a par with a real 5.1 speaker arrangement. “Headzone®” provides a far more realistic attempt to all well known problems surrounding headphones, such as locating the sound source “within” the head, lack of spatial information and movement of the sound with the head.

The basis for this technology is advanced digital signal processing (DSP), combined with patented ultrasonic-headtracking.

Today also a home version of the “Headzone®” headphone system is available for hi-fi enthusiasts’ private use, i.e. for use with home cinema, playing back surround music productions or gaming.

The Idea

Headzone® emerged from the idea of remodelling the effective parameters of an ideal auditory space with a certain loudspeaker set-up (up to 5.1) as convincingly and exactly as possible and to make this available in a compact and lightweight transportable device like an external sound card. With the help of the lastest DSPenabled signal processing, Headzone® processes the audio channels in such a way that they are heard in the headphones exactly as they would in an actual room. Outside the head, in fixed positions and with a realistic sound impression. In contrast to other surround simulations using headphones, which produce an impressive but very diffuse “spatial effect” due to stereoscopic image widening and reverberation effects, Headzone® performs just like a real 5.1 loudspeaker system in a high-quality control room. Each surround channel is reproduced as a separate, virtual loudspeaker and can be positioned exactly as required by the user. Headzone® places key emphasis on the maximum accuracy of reproduction.

Current modules:

Headzone® PRO v2.1 19”, without Headtracking

Headzone® PRO XT v2.1 19”, with Headtracking

Headzone® PRO XT v2.1 19”, without Headtracking

Headzone® PRO XT HT v2.1 19”, with Headtracking
SPARE PARTS

Ear Cushions and Headbands

<table>
<thead>
<tr>
<th>Art.-No.</th>
<th>Description</th>
<th>Model Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>945.576</td>
<td>Ear cushions pair for DT 10*-, plush, black, suitable for the tropics</td>
<td>EDT 100 P</td>
</tr>
<tr>
<td>945.584</td>
<td>Ear cushions pair for DT 10*, cotton jersey, black, suitable for the tropics</td>
<td>EDT 100 T</td>
</tr>
<tr>
<td>931.532</td>
<td>Ear cushions pair for DT 150 and DT 190, softskin, black</td>
<td>EDT 150 S</td>
</tr>
<tr>
<td>954.249</td>
<td>Ear cushions pair for DT 231 PRO and DT 234 PRO, velours, black</td>
<td>EDT 232 V</td>
</tr>
<tr>
<td>943.549</td>
<td>Ear cushions pair for DT 25*-, DT 28*-, and DT 29*-, softskin, black</td>
<td>EDT 250 S</td>
</tr>
<tr>
<td>942.704</td>
<td>Ear cushions pair for DT 25*, DT 28*, and DT 29*, velours, black (standard)</td>
<td>EDT 250 V</td>
</tr>
<tr>
<td>907.313</td>
<td>Ear cushions pair for DT 48 A.00, rubber</td>
<td>EDT 48 R</td>
</tr>
<tr>
<td>907.305</td>
<td>Ear cushions pair for DT 48 E, softskin, black</td>
<td>EDT 48 S</td>
</tr>
<tr>
<td>902.702</td>
<td>Ear cushions pair for DT 770-versions, leather, black</td>
<td>EDT 770 LS</td>
</tr>
<tr>
<td>904.783</td>
<td>Ear cushions pair for DT 770 M, DT 79*-, softskin, black</td>
<td>EDT 770 S</td>
</tr>
<tr>
<td>926.660</td>
<td>Ear cushions pair for DT 770-versions, velours, anthracite (standard)</td>
<td>EDT 770 V</td>
</tr>
<tr>
<td>906.166</td>
<td>Ear cushions pair for DT 770-versions and DT 79*-, velours, black</td>
<td>EDT 770 VB</td>
</tr>
<tr>
<td>904.791</td>
<td>Ear cushions pair for DT 990 PRO, softskin, black</td>
<td>EDT 990 S</td>
</tr>
<tr>
<td>926.679</td>
<td>Ear cushions pair for DT 880-versions and DT 990 PRO, velours, anthracite (standard)</td>
<td>EDT 990 V</td>
</tr>
<tr>
<td>904.163</td>
<td>Ear cushions pair for DT 880-versions and DT 990 PRO, velours, black</td>
<td>EDT 990 VB</td>
</tr>
<tr>
<td>908.363</td>
<td>Ear cushions pair for DT 1350, velours</td>
<td>EDT 1350 VB</td>
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Headband Pads

<table>
<thead>
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<th>Description</th>
<th>Model Numbers</th>
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</thead>
<tbody>
<tr>
<td>926.713</td>
<td>Headband pad for DT 48-versions</td>
<td>Headband pad for DT 48-versions</td>
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<tr>
<td>908.715</td>
<td>Headband pad for DT 10*-versions</td>
<td>Headband pad for DT 10*-versions</td>
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<tr>
<td>990.681</td>
<td>Headband pad for PRO-Series (DT 770-versions / DT 79*-, DT 880-versions / DT 990 PRO)</td>
<td>Headband pad for PRO-Series (DT 770-versions / DT 79*-, DT 880-versions / DT 990 PRO)</td>
</tr>
<tr>
<td>990.163</td>
<td>Headband pad for DT 150/190</td>
<td>Headband pad for DT 150/190</td>
</tr>
<tr>
<td>953.840</td>
<td>Headband pad for DT 231 PRO and DT 234 PRO</td>
<td>Headband pad for DT 231 PRO and DT 234 PRO</td>
</tr>
<tr>
<td>903.886</td>
<td>Headband pad for DT 25*-7, DT 28*-, and DT 29*-versions</td>
<td>Headband pad for DT 25*-7, DT 28*-, and DT 29*-versions</td>
</tr>
<tr>
<td>906.875</td>
<td>Headband pad for DT 1350</td>
<td>Headband pad for DT 1350</td>
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Ear Seals

<table>
<thead>
<tr>
<th>Art.-No.</th>
<th>Description</th>
<th>Model Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>488.070</td>
<td>EDT Cotton Ear Hygiene Covers (5 pairs) for DT 25*-versions, DT 28*-, DT 29*-versions, DT 770-versions, DT 79*-, DT 880-versions, DT 990 PRO</td>
<td>EDT Cotton Ear Hygiene Covers (5 pairs) for DT 25*-versions, DT 28*-, DT 29*-versions, DT 770-versions, DT 79*-, DT 880-versions, DT 990 PRO</td>
</tr>
</tbody>
</table>

For further spare parts, also for older models, please check our website to find a distributor in your country: www.beyerdynamic.com
## DT 100 Series – Headset connection cables

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Art-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>K 109.00</td>
<td>Straight connecting cable with free ends, 1.5 m (4.92 ft)</td>
<td>101.907</td>
</tr>
<tr>
<td>K 109.26</td>
<td>Same as above, 3 m (9.84 ft), with 4-pin mini jack plug for SONY cameras (DR 100 compatible)</td>
<td>491.802</td>
</tr>
<tr>
<td>K 109.28</td>
<td>Straight connecting cable with 5-pin XLR-male, 1.5 m (4.92 ft)</td>
<td>406.538</td>
</tr>
<tr>
<td>K 109.40</td>
<td>Straight connecting cable with 3-pin XLR-male and 1/4&quot; stereo jack (6.35 mm), 1.5 m (4.92 ft)</td>
<td>449.121</td>
</tr>
<tr>
<td>K 109.42</td>
<td>Straight connecting cable with 4-pin XLR-male, 1.5 m (4.92 ft)</td>
<td>446.548</td>
</tr>
<tr>
<td>K 109.48</td>
<td>Same as above, 3 m (9.84 ft), 2 x mini stereo jack plug for multimedia applications</td>
<td>481.688</td>
</tr>
<tr>
<td>WK 109.00</td>
<td>Coiled connecting cable with free ends, 3.0 m (9.84 ft)</td>
<td>198.900</td>
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</table>

## DT 190/200 Series – Headset connection cables

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>K 190.00</td>
<td>Straight connecting cable with free ends, 1.5 m (4.92 ft)</td>
<td>431.575</td>
</tr>
<tr>
<td>K 190.26</td>
<td>Same as above, 3 m (9.84 ft), with 4-pin mini jack plug for SONY cameras (DR 100 compatible)</td>
<td>491.799</td>
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<tr>
<td>K 190.28</td>
<td>Straight connecting cable with 4-pin XLR-female, 1.5 m (4.92 ft)</td>
<td>445.304</td>
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<tr>
<td>K 190.38</td>
<td>Straight connecting cable for V.11 versions with 5-pin XLR-male, for professional cameras (Sony, Philips, Ikegami), 1.5 m (4.92 ft)</td>
<td>475.181</td>
</tr>
<tr>
<td>K 190.40</td>
<td>Straight connecting cable with 3-pin XLR-male and 1/4&quot; stereo jack (6.35 mm), 1.5 m (4.92 ft)</td>
<td>445.894</td>
</tr>
<tr>
<td>K 190.41</td>
<td>Straight connecting cable with 5-pin XLR-male, 1.5 m (4.92 ft)</td>
<td>445.312</td>
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<tr>
<td>K 190.48</td>
<td>Straight connecting cable with 2 x mini stereo jack plug for multimedia applications</td>
<td>479.470</td>
</tr>
<tr>
<td>WK 190.00</td>
<td>Coiled connecting cable with free ends, 3.0 m (9.84 ft)</td>
<td>448.176</td>
</tr>
</tbody>
</table>

### ABBREVIATIONS

- bl = blue
- br = brown
- ge = yellow
- gr = green
- or = orange
- rt = red
- ws = white
- Sch = shield
- Schirm = shield

**Special cables on request at proaudio@beyerdynamic.de or Phone +49 (0) 71 31 / 6 17 - 4 40**