ACCESSORIES FOR CONDENSER MICROPHONES

Elastic suspensions

**EA 21 ni**
Elastic microphone suspension for microphones with a shaft diameter of 10 to 24 mm; nickel-plated.

**EA 21 tv** With mat black finish.

**EA 713**
Horseshoe-shaped flexible suspension for the microphones MC 710, MC 714, and MC 721, MC 724. Length: 92 mm. To be used with boom adaptor MZG 1 or pistol grip handle MZP 767. Matches the basket-type windscreen KWS 723.

**EA 716/EA 736**
Elastic suspension for the microphones MC 716 and MC 726. To be used with boom adaptor MZG 1 or pistol grip handle MZP 767. Matches the basket-type windscreen KWS 726.

**EA 736** Same, but for microphone MC 736.

**EA 717/EA 737**
Elastic suspension for the microphones MC 717 and MC 727. To be used with boom adaptor MZG 1 or pistol grip handle MZP 767. Matches the basket-type windscreen KWS 727.

**EA 737** Same, but for microphone MC 737.

**EA 740/PS 740**
Elastic suspension and pop screen for condenser microphone MC 740.

**MZG 1**
Boom adaptor for the elastic suspension EA 713, EA 715, and EA 717. Bottom with 3/8" internal thread for screwing to the stand.

**MZP 767**
Pistol grip handle for shotgun microphones, matches EA 716, EA 716 and EA 717. Fitted with 3/8" internal thread for screwing to the stand.

Flexible mounts effectively reduce the transmission of disturbing solid-borne noise to the microphone.
ACCESSORIES FOR CONDENSER MICROPHONES

Windscreens

**WS 740**
For M 101, M 201, MC 711, MC 713, MC 721 and MC 723.

**WS 101**
For MC 740

**WS 716**
For MC 716 and MC 726. Length 210 mm.

**WS 717**
For MC 717 and MC 727. Length 520 mm.

Windscreen styles:
- **WS 740** and **WS 101** are designed for use with a variety of microphones.
- **WS 716** and **WS 717** are specifically for the MC 716 and MC 726 microphones.

**Basket-type windscreen**

**KWS 723**
Particularly effective windscreen for outdoor productions. Slotted design for convenient introduction of the microphone with flexible mount.

**KWS 726**
For MC 716, MC 726 and MC 736 (only in conjunction with EA 718 or EA 738 and MZG 1 or MZP 767 respectively).

**KWS 727**
For MC 717, MC 727 and MC 737 (only in conjunction with EA 717 or EA 737 and MZG 1 or MZP 767 respectively).

**ZWS**
Additional windscreen made of grey fleece. Fabric matches the basket-type windscreen of the corresponding size. Suits for particularly unfavorable weather conditions (not illustrated).

**ZWS 723** for KWS 723.
**ZWS 726** for KWS 726.
**ZWS 727** for KWS 727.

Microphone "fishpole" boom

**MZA 716 + MZG 2**
Fiber glass telescoping fishpole boom in matte black color with swivel joint MZG 2 for fixing the microphone in any angle. The pickup direction can be varied within 360° by simply turning the fiber glass tubes. Fitted with 3/8" thread for microphone clamps or flexible mounts (Fig. with EA 21). Working length (extended) 3.3 m, transport length (collapsed) 0.95 m, weight 800 g.

**MZA 717**
Light microphone fishpole made of lusterless black anodized aluminum. Length adjustable between 0.66 m and 1.70 m (not illustrated).
ACCESSORIES FOR
CONDENSER MICROPHONES

Capsule extension tubes

With the capsule extension tubes it is possible to install the condenser microphones of the MCM series even more inconspicuously, e.g. on theater stages. The extensions are screwed between the microphone capsule and the amplifier handle.

CKV 1: Length 200 mm, straight version.
CKV 2: Length 400 mm, straight version.
CKV 3: Length 600 mm, bent capsule ends.

Stand mounts

MKV 9
Stand mount for microphones with a shaft diameter of 19 to 21 mm, 3/8" and 5/8" stand thread.

ST 300
Lightweight, collapsible table tripod made of unbreakable plastic. Matches all mounts with 3/8" internal thread (illustrated with MKV 9).

ZK V 4
Stand mount for fastening the capsule extension tubes CKV 1, CKV 2 or CKV 3.

MKV 11
Stand mount for microphones with a shaft diameter of 32 to 42 mm, 3/8" and 5/8" stand thread.

ZMS 2
For mounting two microphones on a single stand. Length: 21 cm.

ZMS 236
For mounting up to four microphones on a single stand. Length: 41 cm.

SA 710
Flexible holder for microphone with capsule extension in conjunction with MZG 1.
beyerdynamic connecting and extension cables are made of highly flexible, screened, two-conductor cable material. The standard length of the connecting cables is 7.5 m. Additional connecting cables with screw- or twist-type connectors on both sides can be used to establish larger connections by inserting extensions between the microphone and the connecting cable. Their standard length is 10 m, in special cases 20 m.

With stripped and tinned ends on equipment side; length 7.5 m:

**MVK N/7.5**
For microphones with small DIN N connector

**MVK N (C)/7.5**
For microphones with cannon N (C) connector

**MVK N (T)/7.5**
For microphones with DIN N (T) connector

**Equipment cable end with plug-in-type (N, L, K), twist-type (N (C)) or screw-type (N (T)) connector, length 7.5 m:**

**MVK N - N/7.5**
For microphones with small DIN N connector to balanced DIN sockets (1-3).

**MVK N (C) - N/7.5**
For microphones with cannon N (C) connector to balanced DIN sockets (1-3).

**MVK N (T) - N/7.5**
For microphones with large DIN N (T) connector to balanced DIN sockets (1-3).

**MVK N - L/7.5**
For microphones with small DIN N connector to unbalanced DIN socket (2-3).

**MVK N (C) - N (C)/7.5**
For microphones with cannon N (C) connector to mating XLR-type socket contacts N (C).

**MVK N - K/7.5**
For microphones with small DIN N connector to jack 6.35 mm diam. inputs.

**MVK N (C) - K/7.5**
For microphones with XLR-type connector N (C) to jack sockets, 1/4" diameter.

**Extension cables**

**Equipment line end with twist-type (N (C)) or screw-type N, N(T) connector, length as indicated:**

**MVK N - N/10**
With miniature female DIN connector N and miniature male DIN connector, cable length 10 m.

**MVK N (C) - N/10**
With N (C) Cannon coupling and small DIN N connector, length 10 m.

**MVK N (C) - N (C)/10**
With N (C) Cannon coupling and N (C) Cannon connector, length 10 m.

**MVK N (T) - N (T)/5**
**MVK N (T) - N (T)/10**
**MVK N (T) - N (T)/15**
**MVK N (T) - N (T)/20**
With large DIN N (T) coupling and large DIN N (T) connector, length: 5, 10, 15 or 20 m.

**MVK N (T) - N (T)/5**
For microphones with small DIN N connector to jack 6.35 mm diam.
**Transformers**

beyerdynamic AF input transformers are made according to a patented special process. Despite their small size they are of high quality. The following plug-in- and cable transformers are without exception intended for microphones with a nominal impedance of 200 Ω. In addition to these beyerdynamic also manufactures a large number of built-in transformers. Detailed information on these can be found in our special publication "AF input transformers".

### Plug-in transformers

<table>
<thead>
<tr>
<th>Transformer Type</th>
<th>Model Number</th>
<th>Impedance</th>
<th>Frequency Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>TR/BV 7.41.0.15.257/N-H</td>
<td>3.41.0.15.006/C-C</td>
<td>45 kΩ</td>
<td>50 - 15 000 Hz ±1 dB</td>
</tr>
<tr>
<td>TR/BV 7.41.0.15.257/N-H</td>
<td>7.41.0.05.252/N-K</td>
<td>6 kΩ</td>
<td>50 - 15 000 Hz ±2 dB</td>
</tr>
</tbody>
</table>

### Cable transformers

<table>
<thead>
<tr>
<th>Transformer Type</th>
<th>Model Number</th>
<th>Impedance</th>
<th>Frequency Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>TR/BV 3.47.0.15.006/N-K</td>
<td>3.47.0.03.002/N-LM</td>
<td>2 kΩ</td>
<td>30 - 15 000 Hz ±1 dB</td>
</tr>
<tr>
<td>TR/BV 3.47.0.15.006/C-K/5</td>
<td>3.45.0.15.006/C-K/5</td>
<td>45 kΩ</td>
<td>30 - 15 000 Hz ±2 dB</td>
</tr>
<tr>
<td>TR/BV 7.45.0.15.257/N-H/5</td>
<td>7.45.0.15.257/N-H/5</td>
<td>45 kΩ</td>
<td>30 - 15 000 Hz ±3 dB</td>
</tr>
</tbody>
</table>
Roll-off filter to prevent proximity effect of directional microphones and for attenuating unwanted footfall sound in the case of a speaker’s microphones. Can be simply looped into the microphone line. Suits all microphones with DIN connector, balanced wiring.

Adapter for connecting microphones with XLR-connector N (C) to cable with DIN coupling N.

Plug-in adapter with ON/OFF switch. Converts microphones with no switch into switch type (DIN connectors only).

**Intelligibility - Announcement volume**

The feedback in buses is determined by the loudspeaker located nearest to the driver. Feedback occurs whenever the amplified signal radiated by the loudspeaker reaches the microphone with a level similar to that of the original signal. This means that the first loudspeaker determines the attainable announcement volume. However, our investigations have shown that in general the announcement volume in the front section of the bus (entrance zone) does not have to be as high as in the middle or rear passenger section (riding and exit zone). If, for example, the level of the first speaker is attenuated by 4 dB, the basic volume on the amplifier can be increased by the same amount before acoustic feedback reoccurs. In other words the attainable audio level in the middle and rear section of the bus can thus be increased by 4 dB or 60% which significantly improves the intelligibility of the announcements.

**Radio service**

Many of today's buses used in urban transport systems are equipped for radio service. In some cases microphones are used with two different systems, which can lead to a higher fault rate. By inserting the inductive Audio Frequency Separating Filter AFSF 1, the SHM 415 can also be used for vehicles equipped for radio service, which means that the equipment used in the fleet can be standardized. The inductive audio-frequency separating filter AFSF 1 splits the signal coming from the microphone into two separate paths and thus gives the driver the assurance that he will be simultaneously heard via the radio system as well as the PA equipment of the bus. The ability to equip all buses with the same type of microphone has the additional advantage that no adaptation is required when drivers change to buses with or without radio service.
Pop protections

Protects the microphone from malfunctions caused by explosive sounds that can occur when the microphone is held very closely. The beyerdynamic popscreen is made of high-quality polyurethane foam. Color: anthracite. The model PS 500 is also available with a mounting ring made of colored plastic.

PS 88
For M 69, M 89.

PS 260
For M 260, M 400.

PS 500
For M 500.

PS 600
For M 600.

For M 500.0 anthracite ring
PS 500.1 yellow ring
PS 500.2 red ring
PS 500.3 green ring
PS 500.4 blue ring

Windscreens

For outdoor production we recommend the use of a windscreen to prevent disturbing noise caused by air turbulences. Can also be used as a popscreen. Made of high-quality polyurethane foam. Certain types are available in different colors (at additional cost). Standard color: anthracite.

WS 69
For M 69, M 89, M 400, M 600.

WS 81
For M 81, M 200, M 411, M 412.

WS 101
For M 101, M 201.

WS 160
For M 130, M 160, M 260.

Basket-type windscreens  Microphone clamping devices

WS 86
Windscreen with built-in flexible support for M 69, M 88.
Highly effective windscreens for outdoor productions.

MKV 6

MKV 8
For cylindrical or conical microphone shafts with a diameter of 22-32 mm.
**Desk stands**

**ST 300**

Lightweight, collapsible tripod made of unbreakable plastic. Matches all mounts with 3/8" internal thread (illustrated with MKV 8).

**ST 232**
Heavy desk stand, diam. 190 mm, installed height approximately 105 mm, weight 0.8 kg.

**ST 232/1**
Heavy desk stand, diam. 150 mm, complete with screw-fastened tube, installed height approximately 170 mm, weight 1.5 kg.

**ST 233**
Same as ST 232, but diam. 180 mm, tube telescopes once. Installed height 300 - 500 mm, weight 2.2 kg.

**Threaded adapters**

216 217 218 219

Stand thread adapters:
- 216 5/8" inside - 3/8" outside
- 217 3/8" inside - 5/8" outside
- 218 1/2" inside - 3/8" outside
- 219 3/8" inside - 1/2" outside

**Stand and table clamps**

**ZTK 237**

Table clamp for goosenecks.

**ZSK 238**

Stand clamp for fixing an additional microphone to a floor stand.

**ZMK 5**

Microphone case for musicians. A light-weight, convenient carrying case for up to five microphones. Made of impact- and scratch-resistant plastic. Low-priced alternative to the conventional aluminium flight case. The double-wall design gives excellent protection to the microphones.

Supplied without contents.
Goosenecks

Identification code
The code contains information concerning the model, diameter, and length of the gooseneck. The number before the slash indicates the diameter in mm; the number after the slash indicates the length in mm. Goosenecks SH, SHK, without identification letter are fitted with a 3/8” external thread on top and a 3/8” internal thread on the bottom.
Goosenecks SH, SHK, with one suffix identification letter feature a coupling socket on top that corresponds to the letter and which is suited for mounting a microphone with the same identification letter. The bottom is fitted with a 3/8” internal thread. They are not cabled.
Goosenecks SH, SHK, with two suffix identification letters are fitted at the bottom with a connector that corresponds to the second identification letter. These goosenecks are cabled.
Goosenecks SHK, SHK, with suffix identification letter feature a coupling socket on top that corresponds to the identification letter and which is suited for mounting a microphone with the same identification letter. The bottom is fitted with a 3/8” internal thread. These goosenecks are equipped with a cable, the equipment end of which is blank. Its length is specified in the designation.
Goosenecks SHS, SHS, with suffix identification letter feature a coupling socket on top that corresponds to the identification letter and which is suited for mounting a microphone with the same identification letter. The bottom is fitted with a 3/8” internal thread. These goosenecks have a built-in ON/OFF switch. The equipment side of the cable is blank.

Surface:
- Ni mt = nickel plating, mat finish
- Cr mt = chromium plating, mat finish
- Sw mt = brass, matte finish
- Cr hgl = mirror bright chromium plating

Suffix:
- .02
- .01
- .03

Orders codes for:
- SH 15/200 N (N) T (T) 02
- SH 15/200 N (N) T (T) 01
- SH 15/200 N (N) T (T) 03

Gooseneck mounts

ZSH 30
Base plate, diam. 74 mm, for screwing in goosenecks. Bored 3/8” fixing screw and toothed lock washer for goosenecks are supplied.

ZSH 40
Base plate for mounting goosenecks on speaker’s desk and tables. Protects from footfall sound and other noise.

ZSH 40 Mounted from the top.
ZSH 40 Mounted from the bottom.
ZSH 40 Disassembled.
**Floor stands**

**ST 195**
High loudspeaker stand with collapsible square-tube bottom section. Stable also for very heavy loudspeakers. Height of telescoping tube adjustable. Adjusted height doubly secured with index bolt and locking screw. Installation height 1.15 m. Internal diameter of tube receiving piece 40.5 mm.

**ST 214/1**
Special stand for speaker housings. Adjustable stand column height. Adjusted height doubly secured with index bolt and retaining ring. Installed height 1.25 m. Thread 1/2".

**ST 201/1**
Standard microphone stand. Noiseless height adjustment by means of telescoping tube. Legs can be unscrewed. Installed height 0.85 m. Thread 3/8".

**ST 201 A/1**
Same as ST 201/1, but extra wide legs.

**ST 201 A/2**
Same as ST 201 A/1, but with hinged legs.

**ST 220**
Swivel stand with footfall filter. Noiseless height adjustment by means of telescoping tube. Hinged legs. Installed height 0.90 m. Thread 3/8".

**ST 251**
Microphone stand with double telescoping column. Hinged legs. Installed height 0.6 m. Particularly suited for low microphone positioning in conjunction with boom arm SCH 211/1.

**ST 201/2**

**ST 201 A/2**

**ST 220**

**ST 251**

**ZST 196**

**ZST 196/1**

**SCH 211**

**SCH 211/1**

**SCH 212/C**

**ZST 196**
Flange socket for loudspeaker stand ST 195. To be fastened to loudspeaker housing. Construction: steel plate 120 x 120 mm with four bolt holes diam. 5.6 mm for countersunk-head screws. Tube fitting diam. 40.5 mm, length 100 mm.

**ZST 196/1**
Mounting plate for special stand ST 214/1. To be screwed to loudspeaker cabinet. Construction: steel plate 150 x 120 mm with four bolt holes diam. 10.6 mm for countersunk-head screws. Internal thread 1/2".

**SCH 211**
Boom arm, adjustable in three directions, matches all microphone stands with 5/8" thread. Max. boom extension approximately 0.75 m.

**SCH 211/1**
Same as SCH 211 but telescoping arm. Max. boom extension approximately 0.75 m.

**SCH 212/C**
Boom arm with large extension, adjustable between 0.9 and 1.8 m and counterweight. Can be used in conjunction with special stand ST 214/1.

**ST 210/1**
Combination of floor stand ST 201 A/1 and boom arm SCH 211.

**ST 210/2**
Combination of floor stand ST 201 A/2 and boom arm SCH 211.

**ZST 238**
Cable clip for fixing the microphone cable to the tube of the stand.

These stands are also available with 5/8" thread when ordered in large quantities. Also in black (surcharge).