

DT 287 / DT 297

Headsets with Condenser Microphone

FEATURES

- Closed headphone
- Good ambient noise attenuation
- Neodymium magnet system for very high reproduction precision
- Soft, circumaural ear pads
- Cardioid condenser microphone
- Single-sided connecting cable, plug-in type (delivery does not include the connecting cable)
- Limiter (optional)
- Flexible, pivotable gooseneck for optimal positioning with elasticated microphone suspension
- Improvement of immunity against RFI (Radio Frequency Interference) caused by GSM, DECT, UMTS, Tetra etc.
- DT 287 single-sided version

APPLICATIONS

The lightweight, closed DT 297 headset has been developed for professional broadcasting use.

The headphone features an efficient neodymium magnet system, giving very precise reproduction and excellent intelligibility. Another special feature is the wide frequency response of 10 - 30,000 Hz. The headsets are available with 80 Ω or 250 Ω systems.

This headset is equipped with a condenser capsule with an extended bass response. The microphone can be optimally positioned with the flexible gooseneck. The optimum distance to the mouth is around 5 to 10 cm. The frequency response for this distance corresponds to recommendations of the IRT (Institute for Radiotechnology in Munich). The microphone holder is rotatable so that the microphone can be worn on the left or right side. The soft circumaural ear pads and the fully adjustable padded headband offer a outstanding comfort.

The cardioid polar pattern ensures high-gain-before feedback and noise cancellation. The wide frequency response ensures clear and precise speech reproduction and intelligibility.

All parts such as earpads, headband and gooseneck microphone are easy to replace.

SPARE PARTS

| | | |
|-----------|----------------------------------|-----------------|
| EDT 250 V | Ear pads, velours, circumaural | Order # 942.704 |
| EDT 250 S | Ear pads, soft PVC, circumaural | Order # 943.549 |
| WS 97 AZ | Wind / pop shield, charcoal-grey | Order # 465.313 |



TECHNICAL SPECIFICATIONS

| | |
|---------------------------------------|---------------------------|
| Headphone | |
| Transducer principle | Dynamic |
| Operating principle | Closed |
| Transmission range | 10 - 30,000 Hz |
| Nominal impedance | 80 Ω or 250 Ω |
| Nominal sound pressure level at 1 kHz | 100 dB |
| T.H.D. | < 0.2% |
| Ambient noise insulation | approx. 16 dBA |
| Average pressure on ears | 4.5 N |
| Weight without cable | 240 g |
| Microphone | DT 297 PV |
| Transducer principle | Condenser (back electret) |
| Transmission range | 40 - 20,000 Hz |
| Polar pattern | Cardioid |
| Output voltage at a distance of 5 cm | 5.5 mV |
| Nominal impedance | approx. 300 Ω |
| Nominal output impedance | > 1000 Ω |
| Open circuit voltage | 5 mV/Pa at f = 1 kHz |
| Max. SPL | 132 dB |
| S/N ratio | 62 dB |
| Current consumption | approx. 3.5 mA |
| Phantom supply | 12 - 48 V |
| Microphone | DT 297 V.11 |
| Transducer principle | Condenser (back electret) |
| Transmission range | 20 - 20,000 Hz |
| Polar pattern | Cardioid |
| Output voltage at a distance of 5 cm | 52 mV - 1.3 V, adjustable |
| Nominal impedance | approx. 300 Ω |
| Current consumption | 6 - 56 mA |
| Dimensions | |
| Gooseneck length | 120 mm |
| Capsule diameter | 19 mm |
| Weight | 30 g |

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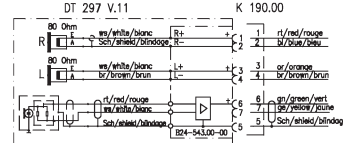
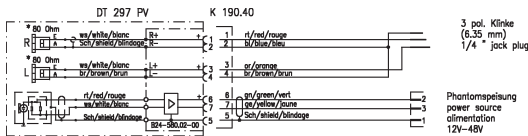
VERSIONS

| | |
|---------------------|---|
| DT 287 PV MK II | Single-sided version, 80 Ω, cardioid condenser microphone Order # 701.432 |
| DT 287 V.11 MK II | Single-sided version, 80 Ω, cardioid condenser microphone, with integrated microphone pre-amp Order # 700.517 |
| DT 297 PV MK II | Headset, 80 Ω, cardioid condenser microphone, with integrated power supply for phantom powering Order # 701.467 |
| DT 297 PV MK II | same as above, but 250 Ω Order # 721.042 |
| DT 297 V.11 MK II | Headset, 80 Ω, cardioid condenser microphone, with integrated microphone pre-amp Order # 700.533 |
| DT 287 PV MK II LTD | Single-ear headset, 80 Ω, condenser microphone (cardioid), with limiter, without cable Order # 498.076 |
| DT 287 PV MK II LTD | Single-ear headset, 250 Ω, condenser microphone (cardioid), with limiter, without cable Order # 498.025 |
| DT 297 PV MK II LTD | Headset, 80 Ω, condenser microphone (cardioid), with limiter, without cable Order # 490.881 |
| DT 297 PV MK II LTD | same as above, but 250 Ω Order # 498.114 |

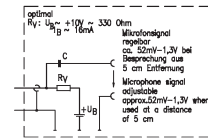
OPTIONAL ACCESSORIES

| | |
|-----------|---|
| K 190.00 | Bare-ended straight cable, 1.5 m long Order # 431.575 |
| K 190.00 | Bare-ended straight cable, 3 m long Order # 441.937 |
| K 190.28 | Straight cable with 4-pin XLR-socket, 1.5 m long Order # 445.304 |
| K 190.39 | Straight cable for V.11 version of the DT 290 series, with 5-pin XLR-plug to connect to professional cameras (Sony, Philips, Ikegami), 1.5 m long Order # 475.181 |
| K 190.40 | Straight cable with 3-pin XLR-plug and 1/4" jack (6.35 mm), 1.5 m long Order # 445.894 |
| K 190.40 | same as above, but 3 m long Order # 446.750 |
| K 190.41 | Straight cable with 5-pin XLR-plug, 1.5 m long Order # 445.312 |
| WK 190.00 | Bare-ended coiled cable Order # 448.176 |

WIRING DIAGRAMS



• Sonderausführung 250 Ohm System lieferbar
 • Special model 250 ohm system available



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FREQUENCY RESPONSE & POLAR PATTERN

This polar pattern and frequency response curve (measuring tolerance ± 2.5 dB) correspond to a typical production sample for this microphone.

Frequency response curve ± 2.5 dB 0 dB = 5 mV/Pa DT 297 PV

