

# DT 280 / DT 290

Headsets with dynamic Microphone

## FEATURES

- Closed headphone
- Good ambient noise attenuation
- Neodymium magnet system for perfect reproduction
- Soft, circumaural ear pads
- Single-sided, plug-in type connecting cable (delivery does not include the connecting cable)
- Limiter (optional)
- Flexible, pivotable gooseneck for optimal positioning with elasticated microphone suspension
- DT 280 single-sided version

## APPLICATIONS

The lightweight, closed headsets DT 280 and DT 290 suit ideally for broadcasting applications.

The headphone is featuring an efficient neodymium magnet system, a very high reproduction precision and a balanced sound. Another special feature is the wide transmission range of 10 - 30,000 Hz. The headsets come with 80  $\Omega$  or 250  $\Omega$  systems.

The soft circumaural earcups and the fully adjustable padded headband are extremely comfortable. The dynamic microphone can be optimally positioned with the flexible gooseneck. The hypercardioid polar pattern guarantees an extremely high-gain-before feedback and noise cancellation. The microphone holder is rotatable so that the microphone can be worn on the left or right side.

The cables to the ear cups and the microphone run safely in the headband. The connecting cable is single-sided, plug-in type with a golden combi 1/4"/mini jack plug. All parts such as ear pads, headband and gooseneck microphone are easy to replace.

## VERSIONS

DT 290 MK II	Headset, 200/80 $\Omega$ . . . . .	Order # 701.610
DT 290 MK II	same as above, but 200/250 $\Omega$ . . . . .	Order # 701.629
DT 290 V.11 MK II	Headset, 200/80 $\Omega$ , with pre-amplifier . . . . .	Order # 700.525
DT 280 MK II	Single-sided version, 200/80 $\Omega$ . . . . .	Order # 701.599
DT 280 MK II	same as above, but 200/250 $\Omega$ . . . . .	Order # 701.602
DT 280 V.11 MK II	Single-sided version, 200/80 $\Omega$ , with pre-amplifier . . . . .	Order # 700.509
DT 280 MK II LTD	Single-ear headset, 80 $\Omega$ , dynamic microphone, with limiter, without cable . . . . .	Order # 497.983
DT 280 MK II LTD	same as above, but 250 $\Omega$ . . . . .	Order # 497.975
DT 290 MK II LTD	Headset, 80 $\Omega$ , dynamic microphone, with limiter, without cable. . . . .	Order # 498.033
DT 290 MK II LTD	same as above, but 250 $\Omega$ . . . . .	Order # 497.851



## 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 lang. . . . .	Order # 441.937
K 190.28	Straight cable with 4-pin XLR-socket, 1.50 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), 1.50 m long . . . . .	Order # 475.181
K 190.40	Straight cable with 3-pin XLR-plug and 1/4" jack (6.35 mm), 1.50 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, 1.50 m long. . . . .	Order # 445.312
K 190.48	Straight cable with 2 x 3.5 mm stereo jack plug to connect to PC sound cards (Warning: no phantom powering). . . . .	Order # 479.470
WK 190.00	Bare-ended coiled cable . . . . .	Order # 448.176
WS 97 AZ	Wind / pop shield, charcoal-grey . . . . .	Order # 465.313

## SPARE PARTS

EDT 250 V	Ear pads, velours, circumaural . . . . .	Order # 942.704
EDT 250 S	Ear pads, soft PVC, circumaural . . . . .	Order # 943.549

# DT 280 / DT 290

## TECHNICAL SPECIFICATIONS

### Headphone

Transducer principle	Dynamic
Operating principle	Closed
Transmission range	10 - 30,000 Hz
Nominal impedance	80 Ω or 250 Ω / system
Nominal SPL at 1 kHz	100 dB SPL at 1 mW = 0.28 V to 80 Ω
T.H.D.	< 0.2%
Nominal power rating	100 mW = 120 dB = 2.8 V to 80 Ω
Ambient noise insulation	approx. 16 dBA
Average pressure on ears	4.5 N
Weight without cable	170 g (DT 280), 240 g (DT 290)

### Microphone DT 280/290

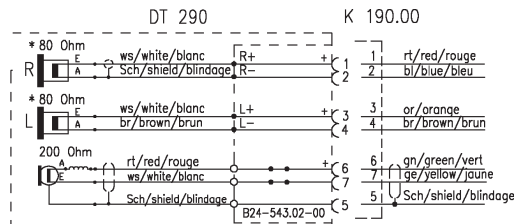
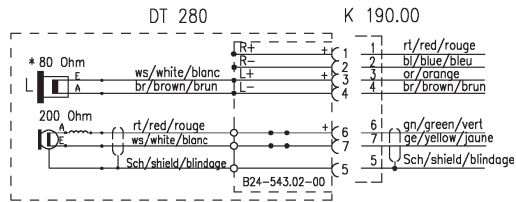
Transducer principle	Dynamic
Frequency response	40 - 12,000 Hz
Polar pattern	Hypercardioid
Output voltage	
at a distance of 5 cm	approx. 1.3 mV/Pa
Nominal impedance	200 Ω
Nominal output impedance	> 1000 Ω
Outer diameter	approx. 23.2 mm

### Microphone DT 290 V.11

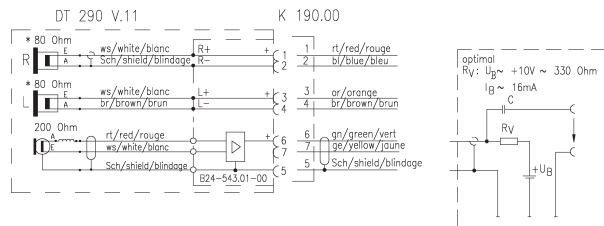
Transducer principle	Dynamic
Frequency response	40 - 12,000 Hz
Polar pattern	Hypercardioid
Output voltage	
at a distance of 5 cm	approx. 1.5 V/Pa
Nominal impedance	200 Ω
Current consumption	8 - 56 mA
Outer diameter	approx. 23.2 mm

## WIRING DIAGRAMS

Positive pressure produces positive voltage on connection 6 of the headphone socket.



\* Sonderausführung 250 Ohm System lieferbar  
\* Special model 250 ohm system available



## FREQUENCY RESPONSE & POLAR PATTERN

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

Frequency response curve  $\pm 2.5$  dB      0 dB = 1.3 mV / Pa

