



DT 180 DT 190

HEADSETS WITH DYNAMIC MICROPHONE

beyerdynamic

FEATURES

- Noise cancelling microphone and high SPL capability
- Excellent isolation from ambient noise
- Modular design for easy servicing
- Rugged construction
- DT 180 single-ear version

APPLICATIONS

The DT 180 / DT 190 are closed headsets with the addition of the DM 190 dynamic, hypercardioid microphone. The DT 180 / DT 190 have been designed for broadcasting, monitoring and communication purposes such as commentating at sports events or for intercom systems at live concerts and other situations which require precise audio performance.

The DM 190 is a balanced, noise cancelling microphone and is mounted on a fully adjustable boom allowing accurate positioning for optimum sound and minimal explosive "p" popping.

TECHNICAL SPECIFICATIONS

DT 180/DT 190 Headphone

Transducer type	dynamic
Operating principle	closed
Frequency response	10 - 30,000 Hz
Nominal impedance	250 Ω
Nominal SPL at 1 kHz	97 dB SPL at 1 mW $\hat{=}$ 0.5 V at 250 Ω
T.H.D.	\leq 1%
Power handling capacity	100 mW $\hat{=}$ 117 dB SPL $\hat{=}$ 5 V at 250 Ω
Sound coupling to the ear	circumaural
Headband pressure	4.5 N
Ambient noise attenuation	approx. 20 dBA
Weight (without cable)	250 g (DT 190) 240 g (DT 180)

DM 190 Microphone

Transducer type	dynamic
Operating principle	pressure gradient
Frequency response	40 - 12,000 Hz
Polar pattern	hypercardioid
Noise suppression	> 30 dB
Output voltage when used at a distance of 5 cm	approx. 3 mV
Nominal output impedance	approx. 200 Ω
Weight	100 g

(all specifications according to IEC 268-7)

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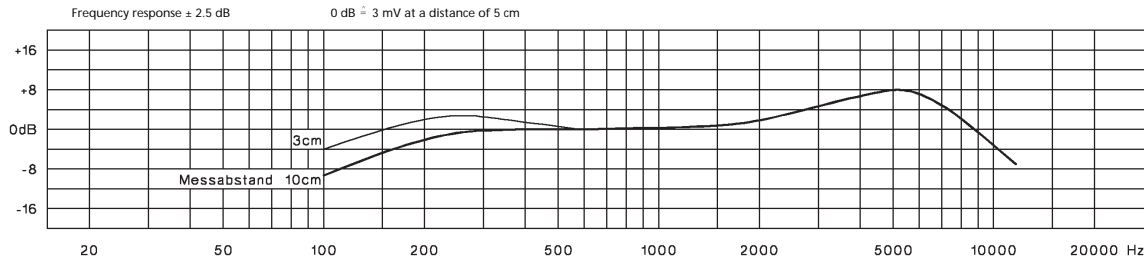
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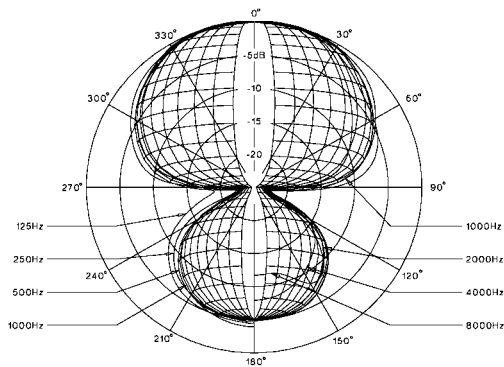
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FREQUENCY RESPONSE & POLAR PATTERN

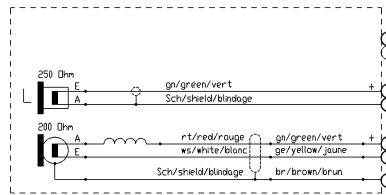
This polar pattern and frequency response curve (measuring tolerance ± 2.5 dB) correspond to typical production run specifications for this microphone.



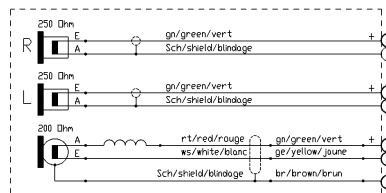
WIRING DIAGRAM



DT 180



DT 190



VERSIONS

Model	Description	Order #
• DT 180	Single-ear-headset, 200/250 Ω , without K 190...cable	434.531
• DT 190	Headset, 200/250 Ω , without K 190...cable	423.386

OPTIONAL ACCESSORIES

Model	Description	Order #
• K 190 P (C/5)	Straight cable, 1.5 m, with 5-pin XLR plug for reporting devices	436.240
• K 190.00	Straight cable, 1.5 m, bare-ended	431.575
• K 190.14	Straight cable, 1.5 m, with 4-pin Binder plug	439.134
• K 190.15-E Set	consisting of K 190.14 cable and CV 15-E pre-amp	445.460
• K 190.15-L Set	consisting of K 190.14 cable and CV 15-L pre-amp	442.488
• K 190.28	Straight cable, 1.5 m, with 4-pin XLR plug for Clear Com	445.304
• K 190.38	Straight cable, 1.5 m, with 5-pin XLR plug for RTS	452.157
• K 190.40	Straight cable, 1.5 m, with 3-pin XLR plug and 1/4" stereo jack	445.894
• K 190.41	Straight cable, 1.5 m, with 5-pin XLR plug	445.312
• K 190.42	Straight cable, 1.5 m, with 4-pin XLR plug	447.846
• KS 190.40	Straight cable, with 1/4" jack and 3-pin XLR plug, with integrated PTT-switch	446.211
• WK 190.00	Coiled cable, bare-ended	448.176
• WK 190.41	Coiled cable, with 5-pin XLR plug	447.617

SPARE PARTS

Model	Description	Order #
• DT 190	Earpads, circumaural for DT 180 and DT 190	431.532
• BN 59-58/A	Headpad for DT 180 and DT 190	377.163
• BN 56-79/A	Popscreen for DM 190	108.677