

# DT 797

Headset with condenser microphone  
for use in loud environments

Order # 497.894

## FEATURES

- Excellent ambient noise attenuation
- High-quality cardioid condenser microphone for improved bass response and with high gain-before-feedback
- Very high speech reproduction quality and excellent intelligibility
- Pivotal, flexible gooseneck for optimal positioning with shock-mounted microphone
- Robust, serviceable design as all parts are replaceable
- Single-sided connecting cable
- Closed headphone
- Rugged headband construction
- Adjustable, soft padded headband
- Circumaural soft ear pads



## DESCRIPTION

The DT 797 is a perfect combination of the closed DT 770 PRO headphone, the high-quality condenser microphone of the DT 297 headset and a new, pivoting gooseneck microphone boom. This headset has been developed especially for live performances in very loud surroundings such as sporting events etc., where ambient noise attenuation, durability and comfort are of utmost importance.

The powerful headphone systems with a frequency response of 5 – 30,000 Hz provide a perfect reproduction and a balanced sound characteristic. The noise attenuating housing and the soft, circumaural leatherette ear pads provide an excellent isolation from ambient noise. The new, pivoting gooseneck microphone boom can be set into any required position so that the microphone can be used from the right or left hand side. When not in use, the microphone can be turned to the upper position. The condenser microphone is provided with a larger capsule with improved bass response. The cardioid polar pattern ensures a high gain-before-feedback and noise cancellation. In order to avoid damages, the cables in the headband and gooseneck boom are covered. The single-sided cable provides a 6.35 mm stereo jack plug (1/4") and a 3-pin male XLR connector.

## SPARE PARTS

EDT 770 S Ear pads, soft PVC ..... Order # 904.783  
WS 97 AZ Wind shield, charcoal-grey..... Order # 465.313

## TECHNICAL SPECIFICATIONS

### Headphone

Transducer type ..... Dynamic  
Operating principle ..... Closed  
Frequency response ..... 5 – 35,000 Hz  
Nominal impedance ..... 250 Ω / system  
Nominal input voltage ..... 5 V (= 100 mW at 250 Ω) = 120 dB SPL  
Nominal sound pressure level at 1 kHz... 100 dB  
T.H.D. .... < 0.2%  
Ambient noise attenuation ..... approx. 20 dBA  
Average pressure on ears..... 4.5 N  
Connector ..... 6.35 mm stereo jack (1/4")  
Weight without cable ..... 395 g (0.87 lb)

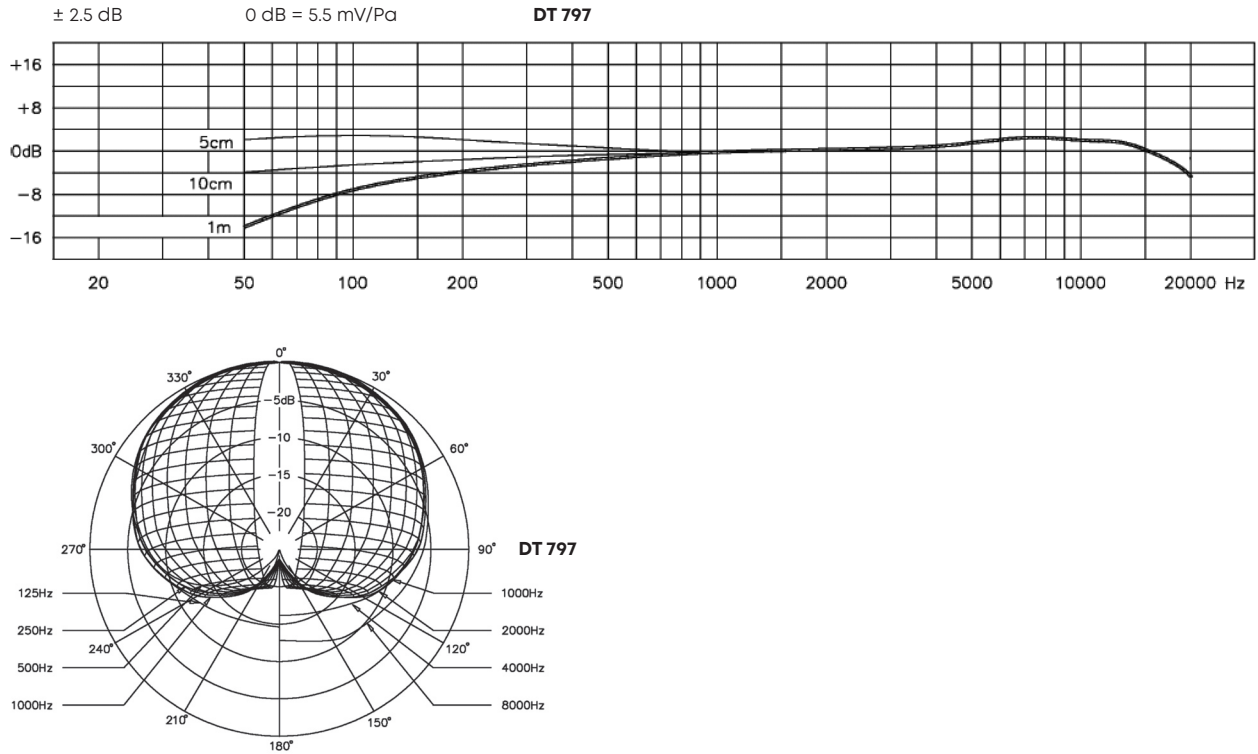
### Microphone

Transducer type ..... Condenser (back electret)  
Frequency response ..... 40 – 20,000 Hz  
Polar pattern ..... Cardioid  
Output voltage at a distance of 5 cm ... 5.5 mV/Pa  
Nominal impedance ..... 300 Ω  
Nominal output impedance ..... ≥ 1000 Ω  
Open circuit voltage ..... 5 mV/Pa at f = 1 kHz  
Max. SPL ..... 136 dB  
S/N ratio ..... 64 dB  
Current consumption ..... < 6 mA  
Phantom supply ..... 12 – 48 V  
Connector ..... 3-pin XLR male  
Dimensions  
Gooseneck length ..... 120 mm (4.72")  
Capsule diameter ..... 19 mm (0.75")  
Weight ..... 30 g (0.07 lb)

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## FREQUENCY RESPONSE & POLAR PATTERN

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



## WIRING DIAGRAM

### DT 797 PV

