

M 930 M 940 M 950

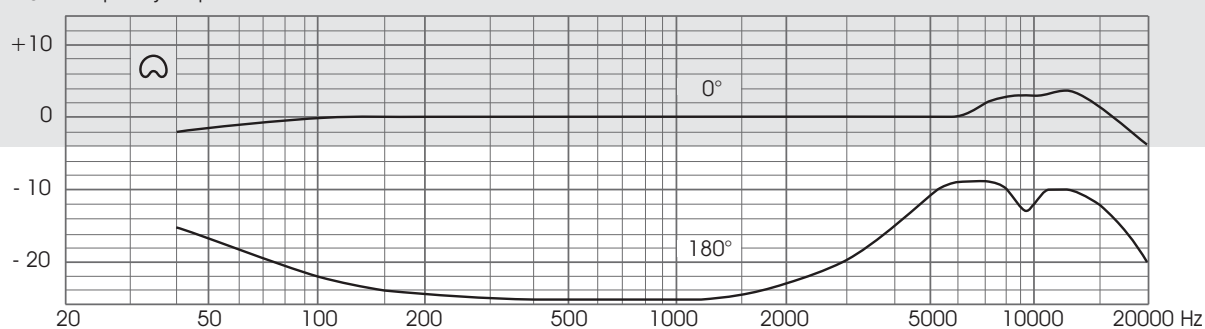
TECHNICAL SPECIFICATIONS

CE Certificate

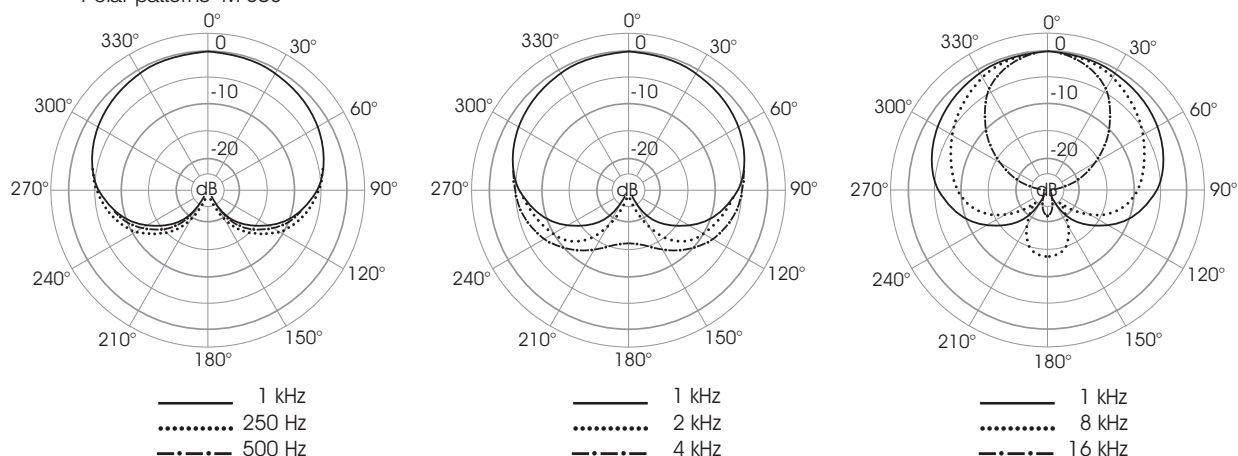
		M 930	M 940	M 950
Polar pattern		Cardioid	Super-cardioid	Wide-cardioid
Acoustic operating principle		Pressure gradient transducer		
Frequency range		40 ... 18000 Hz		
Sensitivity at 1 kHz		21 mV/Pa	23 mV/Pa	20 mV/Pa
Output impedance		100 Ω	100 Ω	100 Ω
Noise level	CCIR 468-4	13 dB	12 dB	13 dB
	DIN EN 60 651	7 dB - A	6 dB - A	7 dB - A
Signal-to-noise ratio (re 1 Pa at 1 kHz)	CCIR-weighted	81 dB	82 dB	81 dB
	A-weighted	87 dB	88 dB	87 dB
Max. SPL for K < 0,5 %		142 dB	141 dB	142 dB
Max. output level RL= 1 kΩ		17 dBu	17 dBu	17 dBu
	RL= 10 kΩ	18 dBu	18 dBu	18 dBu
Dynamic range of electronics		135 dB	135 dB	135 dB
Current consumption (P 48, DIN 45596, IEC 268-15)		3,6 mA	3,6 mA	3,6 mA
Output connector		3-pin XLR connector goldplated contacts		
Weight without MH 93.1		210 g		
Dimensions (L x Ø)		118 mm x 45 mm		
Finish		satin nickel, dark bronze		

FREQUENCY RESPONSES M 930

dB Frequency responses M 930



Polar patterns M 930

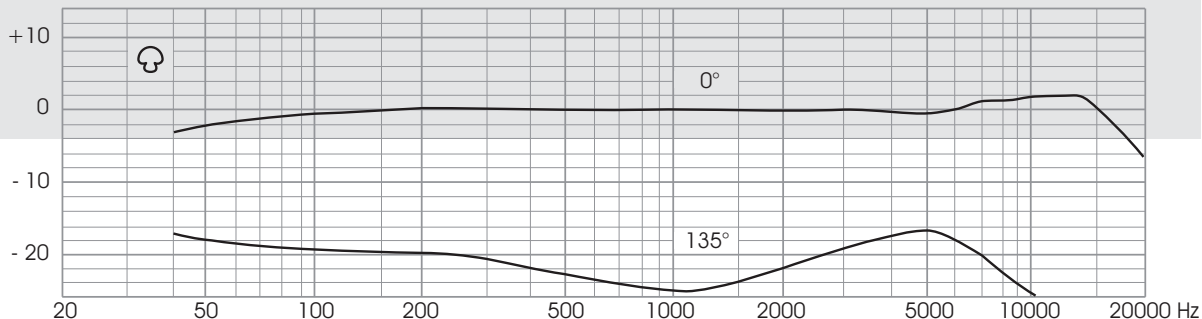


FREQUENCY RESPONSES M 940

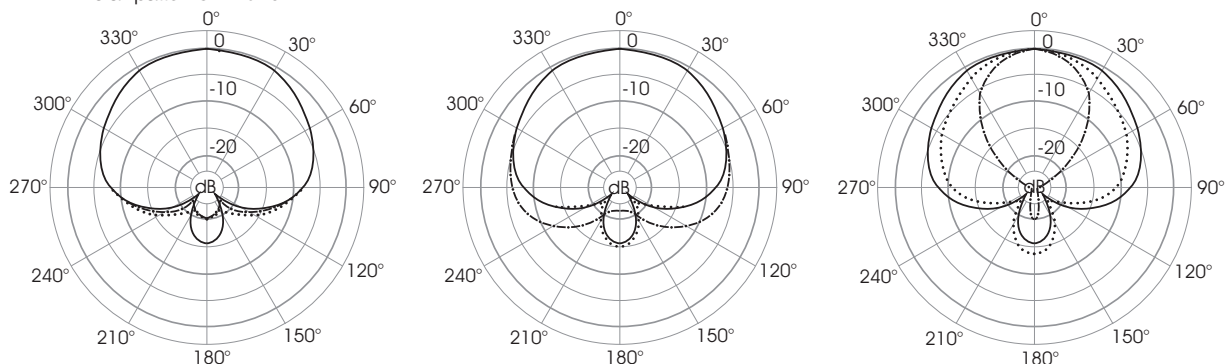


M 940

dB Frequency responses M 940



Polar patterns M 940

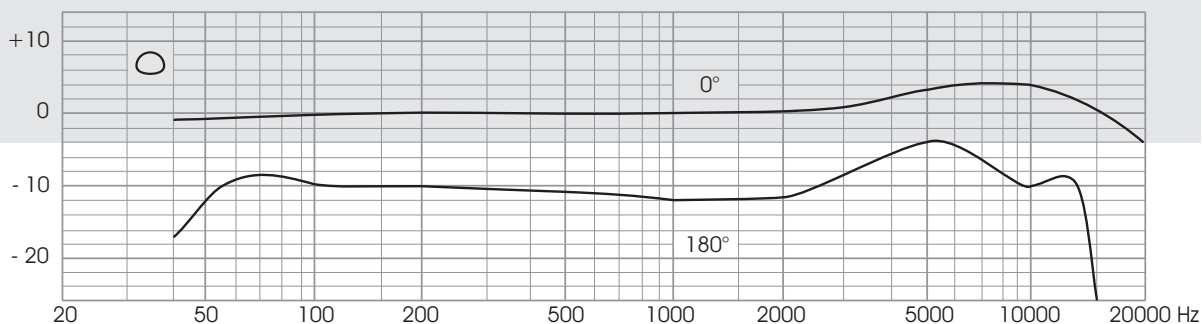


FREQUENCY RESPONSES M 950

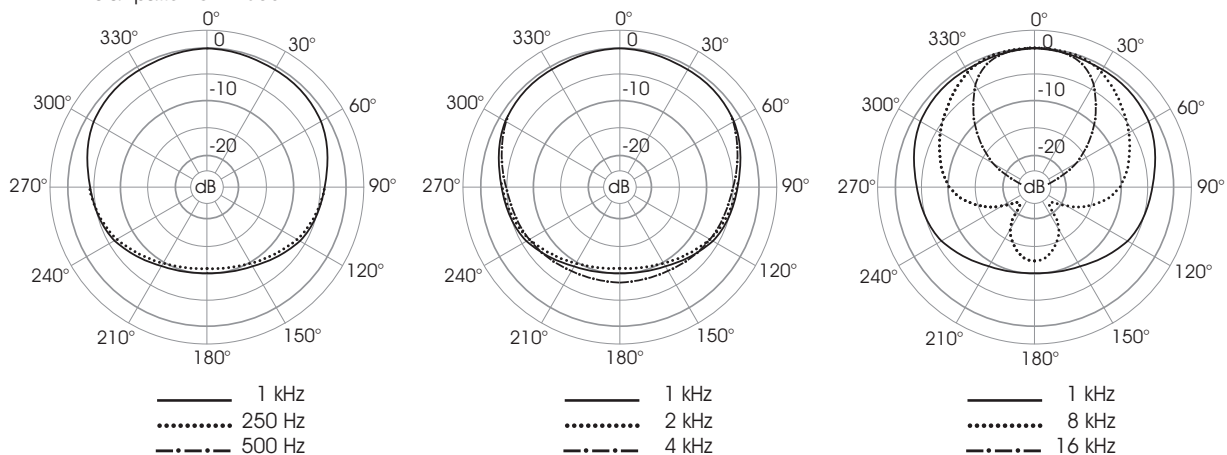


M 950

dB Frequency responses M 950



Polar patterns M 950



XY-AND ORTF-STEREO RECORDINGS

M 930 with cardioid directional pattern

M 940 with super-cardioid directional pattern

M 950 with wide-cardioid directional pattern

The exceptionally low self noise floor of these microphones, 6 respectively 7 dbA, the extremely high output level and the very low RFI susceptibility emphasize their practical value for stereo recordings.

The attractive shape of the currently smallest, extremely compact large diaphragm microphones makes possible stereo recordings in XY-technology, picture 1 or ORTF-arrangement, picture 2.

The XY-technology is the most widely used intensity stereophony. That can be favourably realised by a coincident arrangement of two mono microphones with considerable directional pattern. Both microphones are adjusted against each other in an angle of 45° - 180° according to the recording situation.

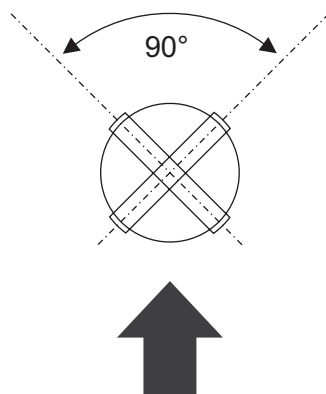
Also, the ORTF-arrangement of the microphones, developed by the French broadcasting, can be easy handled as a variable solution. The M 930, M 940 or M 950 are mounted on the TD 93 tandem in a distance of 170 mm and an angle of 110° - adjusted to ORTF -. Distance and angle can be adjusted according to the demand. Transmission time and intensity differences of the signals are used for ORTF-stereo recordings.

Optionally for ORTF-stereo recordings the EH 93 elastic suspension can be used instead of the MH 93.1 stand adapter.

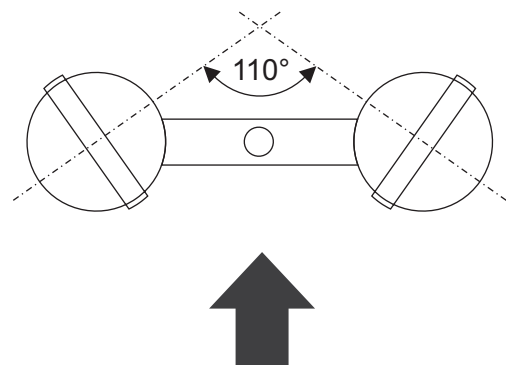
Together with the specifically microphone holders, SH 93 stereo holder and TD 93 tandem, a cost effective equivalent to a stereo microphone can be offered.

The M 930, M 940 or M 950 are delivered as matched pairs for that applications.

Finish: satin nickel, dark bronze.



picture 1: XY-arrangement



picture 2: ORTF-arrangement