

ME 801K1

musikelectronic geithain



STUDIO MONITORING SYSTEMS

HIGHEND LOUDSPEAKER

SOUND REINFORCEMENT SYSTEMS



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High level + large room = big loudspeaker? The ME801K1 is about to rebut that. Longer reverb, larger rooms and listening distances easily spoil the fun for the ambitious music listener. The ME801K1 makes use of a few things out of the bag of tricks filled throughout the long history of the company with much technical know how.

Like the legendary RL901K the ME801K1 uses a 16inch long throw woofer. MEGeithain's typical cardioid dispersion behaviour in the lower frequency range from 25 to 250Hz minimizes reflections behind the speakers so positioning is less critical. A high efficiency 6.5inch mid range cone driver and an array of three 1 inch dome tweeters are coaxially mounted in front of the low range driver. This arrangement ensures the directivity that is needed in large rooms to minimize reflections and provides an irresistible spatiality. Their high sensitivity offer not only impressive level and dynamic capabilities but also low distortion. The consequent use of the coaxial technology has another undeniable advantage: the size of the speaker is obviously reduced. Thanks to housing the amplifier in its own cabinet the dimensions are further reduced. The electronic part consists of three PWM amplifiers and an analogue filter equipped with a room equalization filter to adjust the speaker to the position in and the properties of the listening room. The amplifiers deliver a power of 1000W in the low frequency channel and 500W each in the mid and treble channels. Therefore dynamical limits of the whole system are no concern.

Despite all of these features the ME801K1 sticks to its roots and has all the virtues our customers value: neutrality, homogeneity, low colouration and longevity.

An elegant stand for the ME801K1 is available upon request.

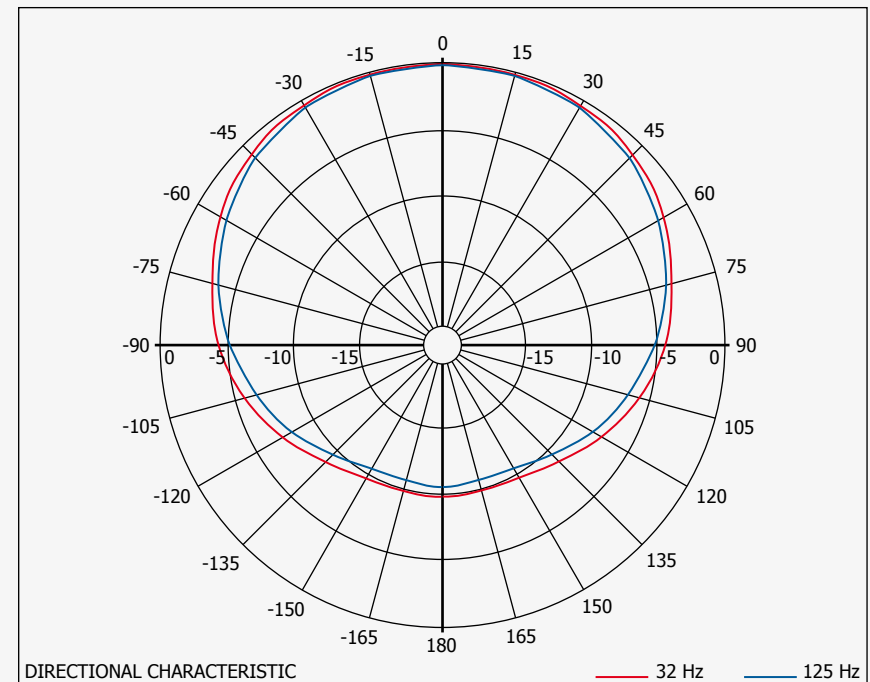
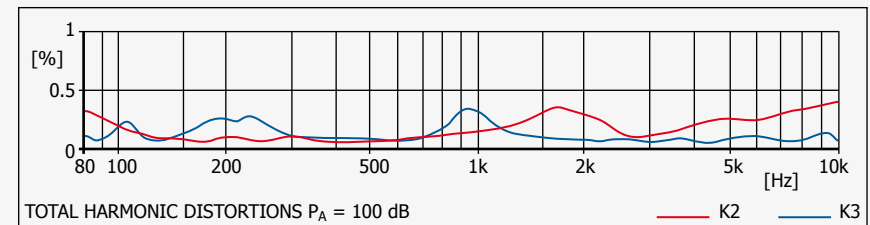
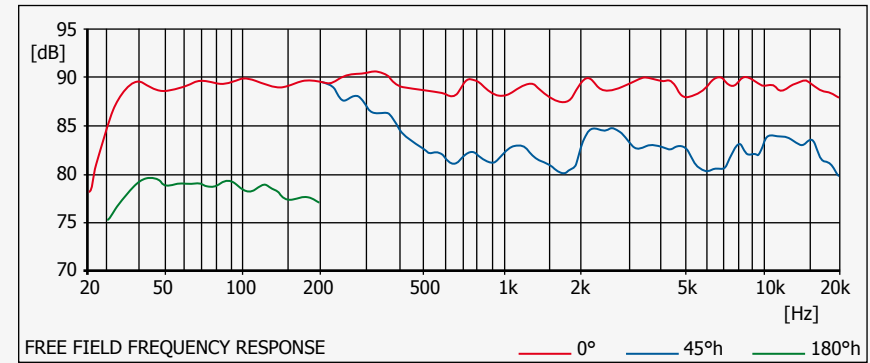


SPECIFICATIONS



GENERAL	Active 3-way coaxial-loudspeaker for listening distances from 3 m to 6 m
MAXIMUM SPL TO IEC 268-1 FROM 100 Hz ... 10 kHz	≥ 117 dB 122 dB / r = 1 m (3.3ft)
BANDWIDTH	25 Hz ... 22 kHz -3 dB 90 dB / r = 1 m (3.3ft)
CALIBRATION: ACOUSTIC OUTPUT LEVEL / P _e = -14 dBu	
DIRECTIVITY INDEX FROM 100 Hz ... 10 kHz	increasing from 4 dB to 13 dB
INHERENT NOISE SOUND LEVEL	≤ 10 dB(A) / r = 1 m (3.3ft)
TOTAL HARMONIC DISTORTION MEASURED AT 100 dB / r = 1 m (3.3ft) FROM 100 Hz ... 10 kHz	≤ -45 dB
NOMINAL INPUT LEVEL	+6 dBu adjustable
INPUT IMPEDANCE	≥ 10 kOhms RC symmetrically
ELECTRONIC Crossover FREQUENCY	550 Hz and 2.2 kHz
NOMINAL OUTPUT POWER OF THE AMPLIFIER	
LF	max. 1000 W @ 4 Ohms
MF	max. 500 W @ 4 Ohms
HF	max. 500 W @ 4 Ohms
POWER REQUIREMENTS	90 ... 132 V, 55 ... 65 Hz; 190 ... 265 V, 45 ... 55 Hz
POWER CONSUMPTION	30 VA at standby; max. 1000 VA at full load
MAINS CONNECTION	IEC power connector with HF-filter
OPERATION AND CLIPPING INDICATOR	LED on front side
INPUT CONNECTOR	XLR 3F (programme input)
OUTPUT CONNECTOR	XLR 3M (bass expansion)
CONNECTION BETWEEN LOUDSPEAKER AND AMPLIFIER CASE	Speakon NL8; shielded cable Standard length 1.50 m; optionally available in other lengths
LOUDSPEAKER SYSTEMS	
WOOFER	400 mm (16 in) cone
MID-RANGE UNIT	125 mm (6 in) cone
TWEETER	25 mm (1 in) dome
DIMENSIONS (H x W x D)	
LOUDSPEAKER	480 x 460 x 400 mm (18.9 x 18.1 x 15.8 in)
AMPLIFIER	495 x 330 x 220 mm (19.5 x 13.0 x 8.7 in)
PEDESTAL	600 x 470 x 410 mm (23.6 x 18.5 x 16.1 in)
WEIGHT	
LOUDSPEAKER	36.5 kg (80.5 lbs)
AMPLIFIER	11.0 kg (24.3 lbs)
PEDESTAL	17.0 kg (37.5 lbs)
TEMPERATURE REQUIREMENTS	
FOR USE	+ 15°C ... + 35°C (59°F ... 95°F)
FOR STORAGE	- 25°C ... + 45°C (- 13°F ... 113°F)
HUMIDITY	45% ... 75%
DESIGN OF THE CABINET	MDF-wood in ash black veneered; optionally different veneers or colours
LOUDSPEAKER	optionally available with holding device
AMPLIFIER	base plate in microstructure semi-gloss-black
PEDESTAL (OPTIONAL AVAILABLE)	fillable columns and top plate in polished stainless steel base plate in microstructure semi-gloss-black

Acoustic diagrams



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