



musikelectronic geithain  
**ML 811K1**



ACTIVE 3-WAY COAXIAL  
LOUDSPEAKER WITH CARDIOID  
RADIATION CHARACTERISTIC

STUDIO MONITORING SYSTEMS

HIGHEND LOUDSPEAKER

SOUND REINFORCEMENT SYSTEMS



With the ML811K1 a mastering loudspeaker was created combining maximal levels and absolute neutrality. For the first time mastering engineers have the opportunity to use a loudspeaker providing the same sound pattern Tonmeisters pledge to for decades. Special attention was directed to the necessities and conditions in mastering studios: large rooms and listening distances, high levels and timbral neutrality. Regardless of whether classical, rock, pop, or motion picture productions the ML811K1 overcomes loud and quiet passages with ease. Also in big living rooms or home cinemas it convinces with the accustomed ME quality.

By the cardioid radiation characteristics within the frequency range from 30Hz through 250Hz the reflections on the back walls of listening rooms can be minimized. In addition the transfer characteristic can be matched to the acoustical conditions of the reproduction room as well as to the set-up situation by the parametric filters of the integrated DSP.

The directivity index of the monitor was optimized for long listening distances and a base distance between three and eight metres (9'10" and 26'3"). For low frequencies a very linear 400 mm (16") long-throw driver in a cardioid cabinet is employed, delivering excellent impulse fidelity. The four 25 mm (1") dome tweeters are coaxially mounted in front of the 260 mm (10") cone allowing a precise steering of the directivity index. As a result a realistic and steady spatial performance of the sound pattern around the listening position is achieved, with high homogeneity and smallest possible coloration. By the big diaphragm area the ML811K1 is to the highest degree level proof while at the same time it has the lowest distortions. Therefore the ML811K1 is a precision studio tool allowing fatigue free working for hours.

The RL-Amplifier is a 2 U rackmount Class-D amplifier driving the woofer with 1,500W at 8Ω and the midrange as well as the tweeters equally with 800W at 4Ω and therefore has sufficient power reserves for every situation.

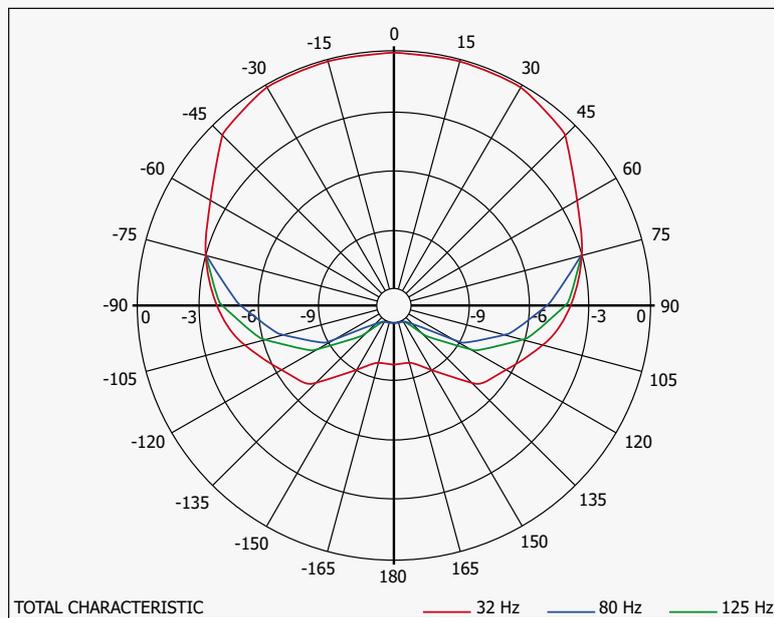
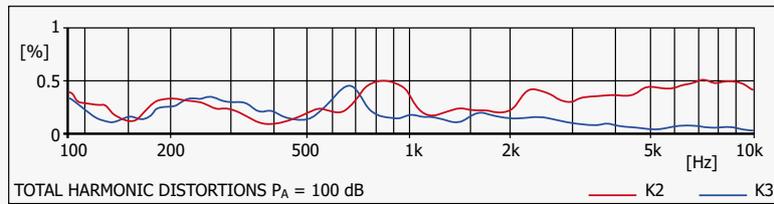
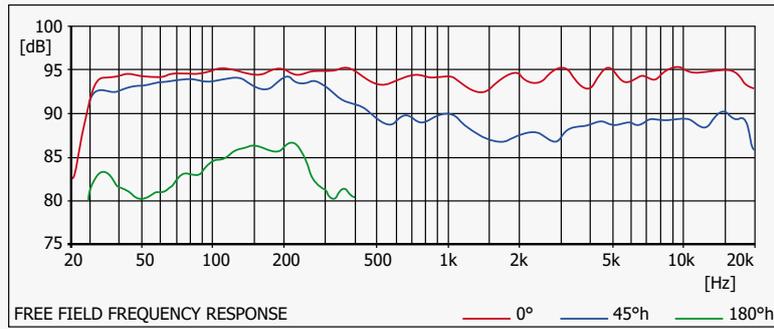
A variety of special stands and racks is available as accessories. According fixing elements have been integrated into the loudspeaker cabinet.



# ML811K1

# SPECIFICATIONS

General	Active 3-way reference monitor for listening distances between 3 m (9'10") and 8 m (26'3")
Maximum SPL from 100 Hz ... 6 kHz	118 dB ... 127 dB / $r = 1 \text{ m (3'3")}$ ( $4\pi$ ) 121 dB ... 130 dB / $r = 1 \text{ m (3'3")}$ ( $2\pi$ )
Bandwidth	28 Hz ... 20 kHz $\pm 3 \text{ dB}$
Calibration: Acoustic output level / $P_E = -14 \text{ dBu}$	95 dB / $r = 2 \text{ m (6'7")}$
Directivity index from 100 Hz ... 10 kHz	increasing from 5 dB to 14 dB
Inherent noise sound level	$\leq 7 \text{ dB(A)} / r = 1 \text{ m (3'3")}$
Total harmonic distortion measured at $100 \text{ dB}_{\text{SPL}} / r = 1 \text{ m (3'3")}$ from 100 Hz ... 10 kHz	$\leq -45 \text{ dB}$
Nominal input level	+6 dBu (adjustable)
Input impedance	$\geq 10 \text{ k}\Omega$ RC balanced
Electronic crossover frequencies	550 Hz and 2.1 kHz
Nominal output power of the amplifier	
LF	1,500 W / $8 \Omega$
MF	800 W / $4 \Omega$
HF	800 W / $4 \Omega$
Input connector of the speaker	Neutrik Speakon NL8 MPR
Input connector of the amplifier	Analogue XLR 3F or optional XLR 3F AES EBU
Output connector of the amplifier	Neutrik Speakon NL8 MPR
Drive units	
Woofers	1 $\times$ 400 mm (16") cone
Mid-range unit	1 $\times$ 260 mm (10") cone
Tweeter	4 $\times$ 25 mm (1") dome
Operation indicator of the amplifier	Display blue
Level and clipping indicator	Green LED chain at amplifier / limiting red
Power requirements	85 V ... 265 V, 50 Hz ... 60 Hz
Power consumption	50 VA when idle max. 1,100 VA at full load
Mains connection	Neutrik Powercon NAC3 MPA-1
Protection class	Protection class 1
EMV conformity	EN55103-1 Emission Class A EN55103-2 Immunity
Environmental conditions	
for use	+15 °C ... +35 °C (+59 °F ... +95 °F)
for storage	-25 °C ... +45 °C (-13 °F ... +113 °F)
humidity	45 % ... 75 %
Connection cable	Speakon NL8; shielded cable
Loudspeaker – amplifier	Standard length 3 m (9'10"); other lengths on request
Dimensions (H $\times$ W $\times$ D)	
Loudspeaker	810 mm $\times$ 460 mm $\times$ 400 mm (31.9" $\times$ 18.2" $\times$ 15.8")
Amplifier	90 mm (2 HE) $\times$ 440 mm (faceplate 485 mm) $\times$ 290 mm (3.6" (2U) $\times$ 17.4" (faceplate 19.1") $\times$ 11.5")
Weight	
Loudspeaker	51 kg (112.5 lbs)
Amplifier	7.1 kg (15.7 lbs)
Design of the cabinet	
Loudspeaker	MDF wood in ash black veneered; different veneers and colours on request
Lateral mounting	with lateral mounting; without lateral mounting on request
Handles	with handles; without handles on request



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STUDIO MONITORING - HIGHEND LOUDSPEAKER - SOUND REINFORCEMENT  
SYSTEMS SYSTEMS

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