



musikelectronic geithain

ML 811K1



ACTIVE 3-WAY COAXIAL
LOUDSPEAKER WITH CARDIOID
RADIATION CHARACTERISTIC

STUDIO MONITORING SYSTEMS

HIGH-END 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 30 Hz through 250 Hz 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 1,500 W at 8 Ω and the midrange as well as the tweeters equally with 800 W at 4 Ω and therefore has sufficient power reserves for every situation.

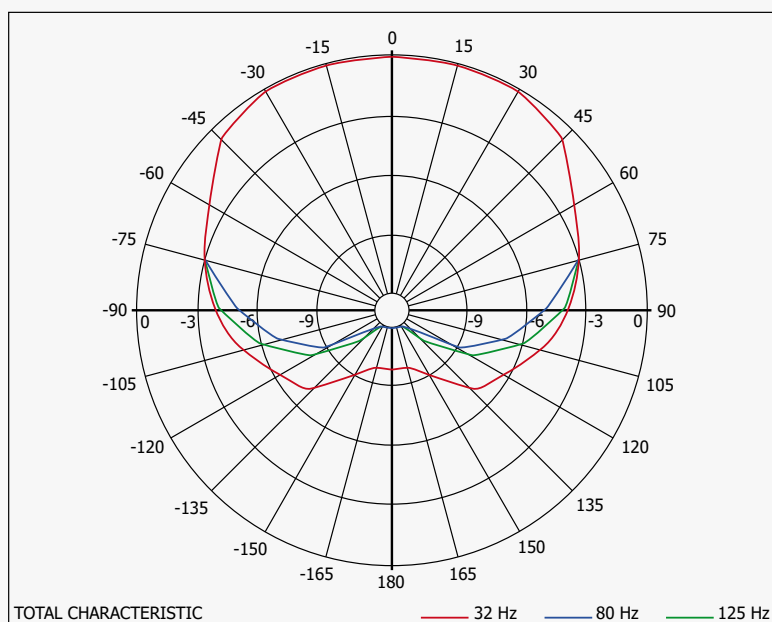
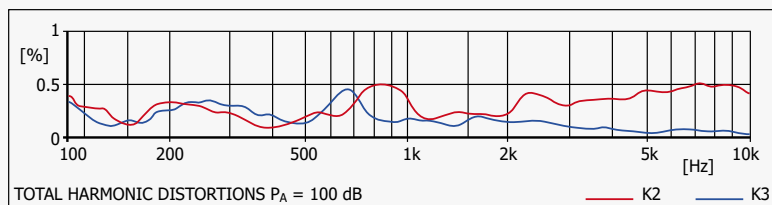
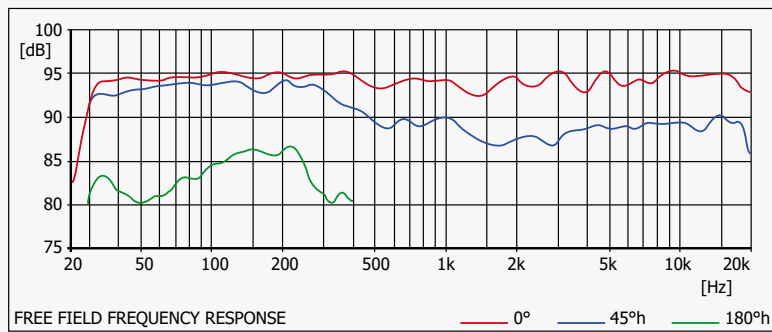
A variety of special stands and racks is available as accessories. According fixing elements have been integrated into the loudspeaker cabinet.



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SPECIFICATIONS

General	Active 3-way reference monitor for listening distances between 3m (9'10") and 8m (26'3")
Maximum SPL from 100Hz ... 6kHz	118dB ... 127dB / $r = 1\text{ m (3'3")}$ (4π) 121dB ... 130dB / $r = 1\text{ m (3'3")}$ (2π)
Bandwidth	28Hz ... 20kHz $\pm 3\text{ dB}$
Calibration: Acoustic output level / $P_E = -14\text{ dBu}$	95dB / $r = 2\text{ m (6'7")}$
Directivity index from 100Hz ... 10kHz	increasing from 5dB to 14dB
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 100Hz ... 10kHz	$\leq -45\text{ dB}$
Nominal input level	+6dBu (adjustable)
Input impedance	$\geq 10\text{ k}\Omega$ RC balanced
Electronic crossover frequencies	550Hz and 2.1kHz
Nominal output power of the amplifier	
LF	1,500W / 8Ω
MF	800W / 4Ω
HF	800W / 4Ω
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	
Woofer	1× 400mm (16") cone
Mid-range unit	1× 260mm (10") cone
Tweeter	4× 25mm (1") dome
Operation indicator of the amplifier	Display blue
Level and clipping indicator	Green LED chain at amplifier / limiting red
Power requirements	85V ... 265V, 50Hz ... 60Hz
Power consumption	50VA when idle max. 1,100VA 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 3m (9'10"); other lengths on request
Dimensions (H × W × D)	
Loudspeaker	810mm × 460mm × 400mm (31.9" × 18.2" × 15.8")
Amplifier	90mm (2HE) × 440mm (faceplate 485mm) × 290mm (3.6" (2U) × 17.4" (faceplate 19.1") × 11.5")
Weight	
Loudspeaker	51kg (112.5lbs)
Amplifier	7.1kg (15.7lbs)
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
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