



musikelectronic geithain

# RL 934K

# RL 934K1



ACTIVE 3-WAY COAXIAL  
LOUDSPEAKER WITH CARDIOID  
RADIATION CHARACTERISTIC

STUDIO MONITORING SYSTEMS

HIGHEND LOUDSPEAKER

SOUND REINFORCEMENT SYSTEMS





The RL934K is as well as the RL944K designed for short listening distances. It is tonally compatible to the RL944K but offers a lower bass range and higher power rating. Therefore it is the optimal solution in small sound and video studios as well as outside broadcasting vans working on reference standard. Also passionate music listeners with limited placement options will appreciate the RL934K.

By the cardioid radiation characteristics within the frequency range from 30 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 an integrated room matching filter.

The total directivity index of the monitor was optimized for very short listening distances and base distance between one and 2.6 metres (3.3 ft and 8.6 ft). As the bass system a very linear 260-mm (10") long-throw driver in a cardioid cabinet is employed, delivering excellent impulse fidelity. The 100-mm (4") cone is mounted together with the 19-mm (0.75") dome tweeter coaxially in front of the bass system allowing a precise steering of the directivity index. As a result a realistic and steady spatial performance of the sound image around the listening position is achieved, with high homogeneity and smallest possible coloration. By the great membrane area the RL934K is in the highest degree level proof while at the same time it has the lowest distortions. Therefore the RL934K is a precision studio tool allowing fatigue free working for hours.

The three-channel MOSFET power amplifier with electronic crossover is integrated within the back wall of the cabinet and is hinged for service purposes. An intermittent LED lighting signals when the overload limit is reached. After crossing of the maximum level the output level will be reduced by 20dB to avoid any overloading of the components.

The RL934K1 is a shortened cabinet variant of the RL934K, that is employed when not enough installation depth is available. Be it a video wall or an outside broadcasting van. For maximum flexibility when choosing the mounting position the speaker is also available in a lying variant. As an alternative to the standardly provided MOSFET amplifier in an upright standing enclosure both the 19" compatible Class D amplifiers RL-Amplifier and RL-Amplifier 2 are also available.

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

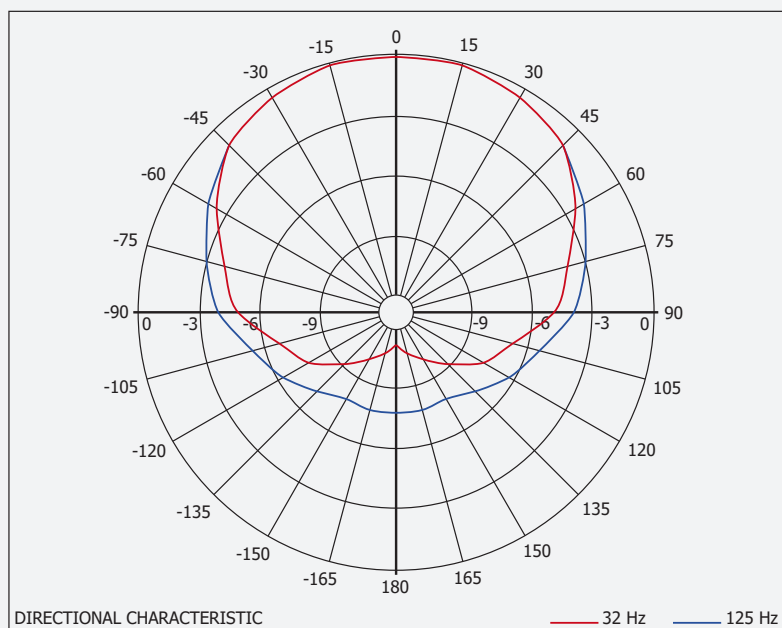
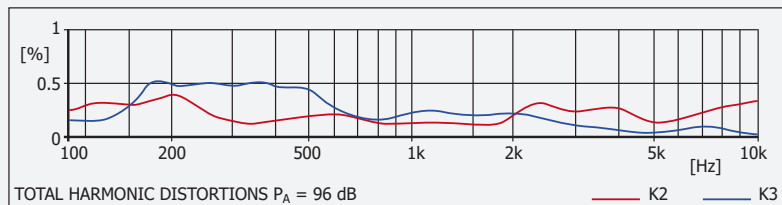
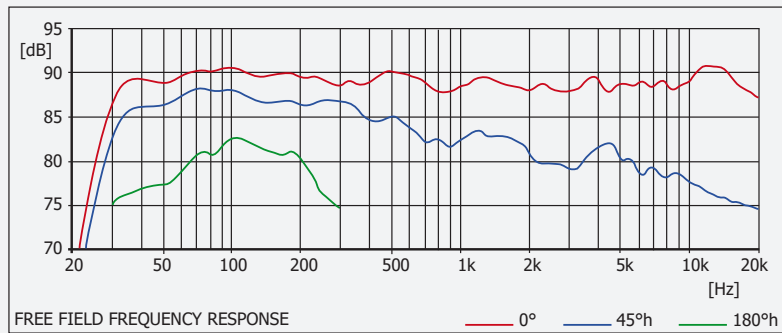


**RL934K**  
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## SPECIFICATIONS

General	Active 3-way coaxial loudspeaker for listening distances between 1 and 2.6 m (3.3 ft and 8.6 ft)
Maximum SPL from 100 Hz ... 6 kHz	112 ... 121 dB / r = 1 m (3.3 ft)
Bandwidth	30 Hz ... 20 kHz $\pm$ 3 dB
Calibration: Acoustic output level / $P_E = -14$ dBu	89 dB / r = 1 m (3.3 ft)
Directivity Index from 100 Hz ... 10 kHz	Increasing from 3 to 10 dB
Inherent noise sound level	$\leq$ 7 dB(A) / r = 1 m (3.3 ft)
Total harmonic distortion measured at 96 dB / r = 1 m (3.3 ft) from 100 Hz ... 10 kHz	$\leq$ -40 dB
Nominal input level	+ 6 dBu adjustable
Input impedance	$\geq$ 10 kOhm RC balanced
Electronic crossover frequencies	750 Hz and 3.8 kHz
Nominal output power amplifier	
LF	180 W / 4 Ohm
MF	100 W / 4 Ohm
HF	100 W / 4 Ohm
Input connector	XLR 3F
Loudspeaker systems	
Woofer	260 mm (10") cone
Mid-range unit	100 mm (4") cone
Tweeter	19 mm (3/4") dome
Operation and clipping indicator	LED on front side
Power requirements	230 V $\sim \pm$ 10 %, 50 ... 60 Hz 115 V $\sim \pm$ 10 %, 50 ... 60 Hz (Optional) 100 V $\sim \pm$ 10 %, 50 ... 60 Hz (Optional)
Power consumption	Max. 300 VA at full load
Mains connection	IEC power connector
Temperature requirements	
for use	+ 15°C ... + 35°C
for storage	- 25°C ... + 45°C
humidity	45 % ... 75 %
<b>RL934K (Amplifier in loudspeaker cabinet)</b>	
Dimensions (h x w x d)	475 x 325 x 330 mm (18.7 x 12.8 x 13 inch)
Weight	28.5 kg (62.8 lbs)
Design of the cabinet	MDF wood in ash black veneered; optional other veneers or colours with holding device; optional without holding device with handles; optional without handles
<b>RL934K1 (Amplifier in separate enclosure)</b>	
Connection cable loudspeaker - amplifier enclosure	Speakon NL8 Standard length 3 m (9.9 ft); optional other lengths
Dimensions (h x w x d)	
Loudspeaker	475 x 325 x 250 (18.7 x 12.8 x 9.8 inch)
Standard amplifier enclosure	475 x 279 x 120 (18.7 x 11 x 4.7 inch) without base plate
Highend amplifier enclosure	495 x 320 x 260 (19.5 x 12.6 x 10.2 inch) with base plate
Weight	
Loudspeaker	15.5 kg (34.2 lbs)
Standard amplifier enclosure	11 kg (24 lbs)
Highend amplifier enclosure	12 kg (26 lbs)
Design of the cabinet	
Loudspeaker	MDF wood in ash black veneered; optional other veneers or colours with holding device; optional without holding device
Standard amplifier enclosure	MDF wood with scratch proof structure coating black RAL9005; optional other colours
Highend amplifier enclosure	MDF wood in ash black veneered; optional other veneers or colours

## ACOUSTIC DIAGRAMS



**musikelectronic geithain gmbh**

STUDIO MONITORING - HIGHEND LOUDSPEAKER - SOUND REINFORCEMENT  
SYSTEMS SYSTEMS

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