



musikelectronic geithain

RL 921K

RL 921K1



ACTIVE 3-WAY COAXIAL

LOUDSPEAKER WITH CARDIOID

RADIATION CHARACTERISTIC

STUDIO MONITORING SYSTEMS

HIGH-END LOUDSPEAKER

SOUND REINFORCEMENT SYSTEMS



The RL921K is based on the timeless classic design of the legendary RL901K. Not only optically but also tonally the RL921K follows in the steps of its older sibling. Therefore it is the optimal solution in cases where the RL901K can not be used because of its size or short listening distances. The RL921K is aimed at professional users as well as music enthusiasts.

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 two and three metres (6.6ft and 9.9ft). As the bass system a very linear 300-mm (12") long-throw driver in a cardioid cabinet is employed, delivering excellent impulse fidelity. The 100-mm (4") cone is mounted together with the 25-mm (1") 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 RL921K is in the highest degree level proof while at the same time it has the lowest distortions. Therefore the RL921K 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 RL921K1 is a shortened cabinet variant of the RL921K, 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.

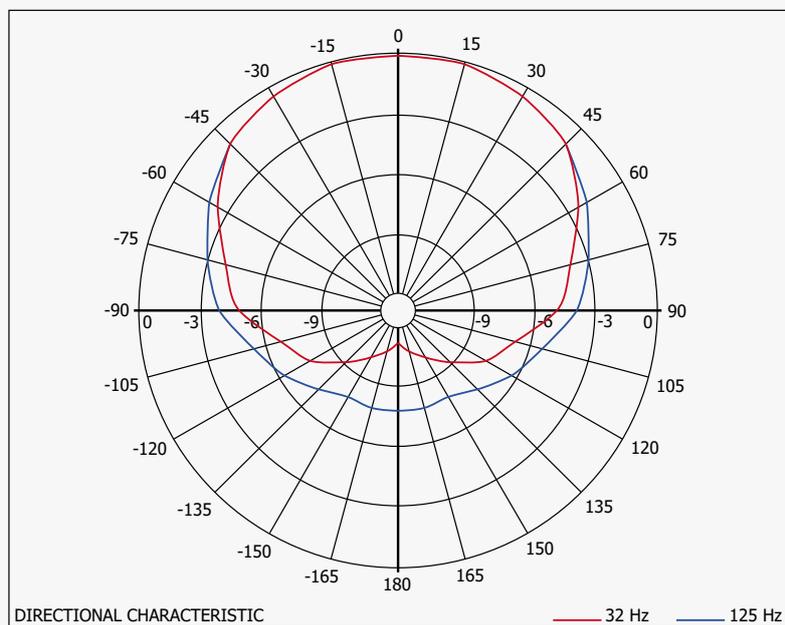
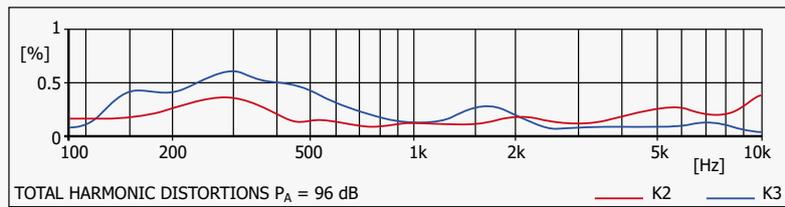
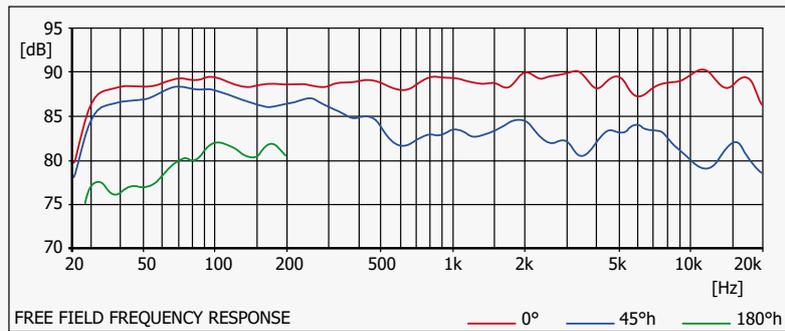
A variety of special stands and racks is available as accessories. According fixing elements have been integrated into the loudspeaker cabinet.



RL921K
RL921K1

SPECIFICATIONS

General	Active 3-way coaxial loudspeaker for listening distances between 2 and 3 m (6.6 ft and 9.9 ft)
Maximum SPL from 100 Hz ... 6 kHz	115 ... 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 4 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 -46 dB
Nominal input level	+ 6 dBu adjustable
Input impedance	\geq 10 kOhm RC balanced
Electronic crossover frequencies	650 Hz and 3.0 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	300 mm (12") cone
Mid-range unit	100 mm (4") cone
Tweeter	25 mm (1") 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 %
RL921K (Amplifier in loudspeaker cabinet)	
Dimensions (h x w x d)	550 x 380 x 370 mm (21.7 x 15 x 14.6 inch)
Weight	39.5 kg (87.1 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
RL921K1 (Amplifier in separate enclosure)	
Connection cable loudspeaker - amplifier enclosure	Speakon NL8 Standard length 3 m (9.9 ft); optional other lengths
Dimensions (h x w x d)	
Loudspeaker	550 x 380 x 300 (21.7 x 15 x 11.8 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	26.5 kg (58.4 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



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STUDIO MONITORING - HIGHEND LOUDSPEAKER - SOUND REINFORCEMENT
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