



musikelectronic geithain

RL 933K

RL 933K1



ACTIVE 3-WAY COAXIAL

LOUDSPEAKER WITH CARDIOID

RADIATION CHARACTERISTIC

STUDIO MONITORING SYSTEMS

HIGHEND LOUDSPEAKER

SOUND REINFORCEMENT SYSTEMS



The RL933K has been designed for both the professional user at medium-size audio, video and film studios and for the discerning music enthusiast.

By the cardioid radiation characteristics within the frequency range from 35 through 250Hz the reflections on the back walls of listening rooms can be minimised. 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 optimised for middle through larger listening distances between two and three metres. As the bass system a very linear 260mm (10") long throw driver in a cardioid cabinet is employed, delivering excellent impulse fidelity. The 125mm (5") cone is mounted together with the 25mm (1") dome tweeter coaxially in front of the bass system allowing a precise steering of the focal perspective. 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 colouration. By the great membrane area the RL933K is in the highest degree level proof while at the same time it has the lowest distortions. Therefore the RL933K 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 RL933K1 is a more compact cabinet variant of the RL933K, that is employed when not enough room is available. Be it a video wall or an outside broadcasting van. As an alternative to the standardly provided MOSFET amplifier in an upright standing enclosure the 19" compatible Class D amplifier RL-Amplifier is also available.

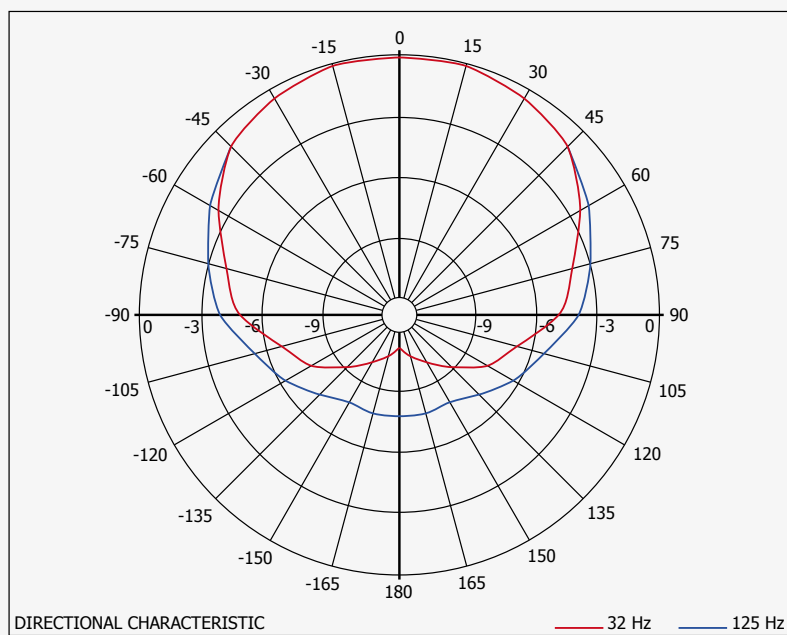
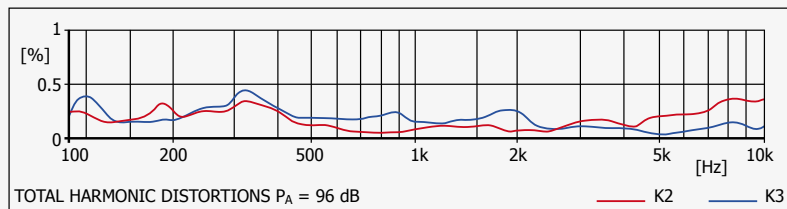
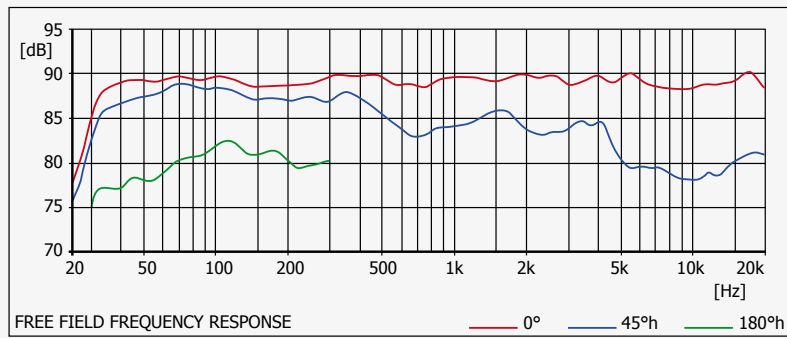
A variety of special stands and racks is available as accessories. According fixing elements have been integrated into the loudspeaker cabinet.



RL933K
RL933K1

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	112 ... 121 dB / r = 1 m (3.3 ft)
Bandwidth	35 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	700 Hz and 3.2 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	125 mm (5") 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 %
RL933K (Amplifier in loudspeaker cabinet)	
Dimensions (h x w x d)	477 x 350 x 310 mm (18.8 x 13.8 x 12.2 inch)
Weight	30 kg (66 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
RL933K1 (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	350 x 350 x 305 (13.8 x 13.8 x 12 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	17 kg (37 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 SYSTEMS

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