



musikelectronic geithain
RL 901K

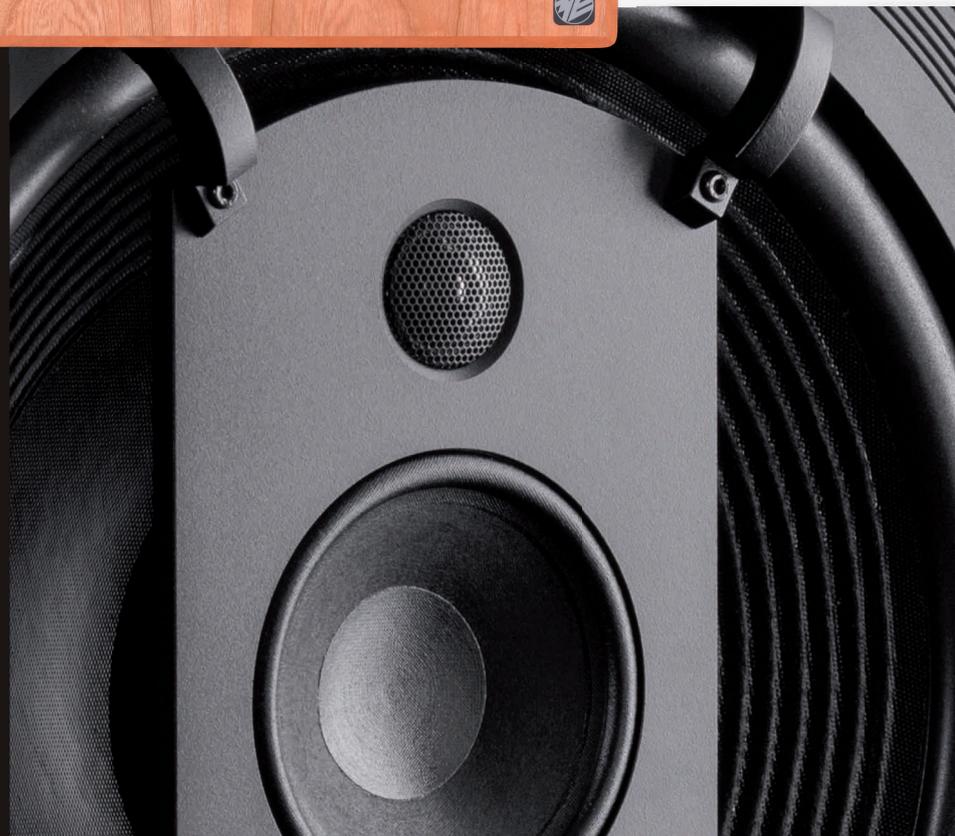


ACTIVE 3-WAY COAXIAL
LOUDSPEAKER WITH CARDIOID
RADIATION CHARACTERISTIC

STUDIO MONITORING SYSTEMS

HIGHEND LOUDSPEAKER

SOUND REINFORCEMENT SYSTEMS



The Reference Class - Active Studio-Monitors made by musikelectronic geithain

RL Series

From compact two-way loudspeakers to large main control studio monitors and compatible subwoofers – we offer the ideal solution for any case of application. The RL Series studio monitors are the achievement of long-year and consequent development efforts with only one aim: absolutely precise and discoloration-free reproduction of any sound events. Listening, acoustic measurements, profound understanding for music and the knowledge of the irrevocable laws of physics form the foundation of our products – instead of any belief in miracles, fancy trends or marketing strategies.

If you don't do it all yourself ...

We are crusaders for the sake of loudspeakers. That is the reason why we develop and manufacture all the components of our loudspeakers ourselves. From amplifier electronics to chassis – every detail of the product is of true in-house manufacture. Incidentally, this strategy also ensures the high continuity and stability of value of our devices. That is the only way to provide a loudspeaker which will master professional requirements even after years of application. The high in-house production depth, going hand in hand with the perfection of our developments

and their permanent control, allows us to offer products throughout decades, while the customers are always able to extend their systems with acoustically identical products.

Active and Coaxial

Active multi-way technology with integrated analogue crossover and powerful amplifier and the application of our special coaxial technology are the basis for all studio monitors. Sound radiating from one point has benefits that cannot be denied: extremely homogenous and discolouration-free sound image, unrivalled directional accuracy and depth, and fatigue-free listening.

All of one piece

Our loudspeakers are team players instead of sound "loners". The task of choosing which loudspeaker best matches an individual monitoring situation will be influenced by listening distance, required threshold frequency and maximal sound pressure level - however, not by sound differences. Consequent use of our products will therefore allow an almost identical sound image, no matter if you work in an OB van or in a main control room.

Active Studio Reference Loudspeaker RL 901K

The RL 901K has been designed for both the professional user at medium-size to large audio, video and film studios and for the discerning music enthusiast.

By the radiating characteristic within the frequency range from 30 through 250 Hz the reflections on the back walls of listening rooms can be minimized. The transfer characteristic can be matched to the acoustical conditions of the reproduction room as well as to the set-up situation by a low-frequent infinitely variable adaptation within two adjustable frequency ranges.

The unit for the medium and high-frequency range is combined in a coaxial manner with a long-throw 16-inch bass system and is provided with a directivity index, which supplements in an excellent way that of the bass system. The total directivity index of the monitor was optimized for middle through larger listening distances between 2 and 4 metres. The whole system is superior by excellent

localization behaviour. The high-power long-throw bass system is driven in a compact cabinet so that optimum impulse behaviour can be reached. Moreover, with a series of constructional measures we have provided that convincing lowest values of non-linear distortions and colorations could be reached.

The three-channel MOSFET power amplifier with electronic crossover is integrated within the back wall of the cabinet and can be swung out 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 20 dB to avoid any overloading of the components.

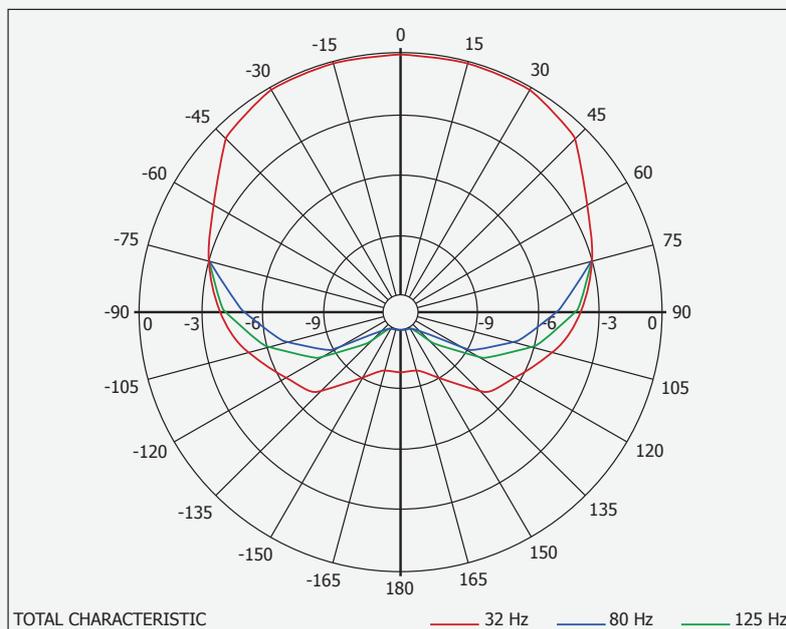
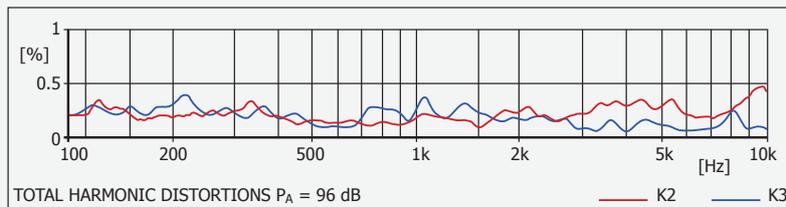
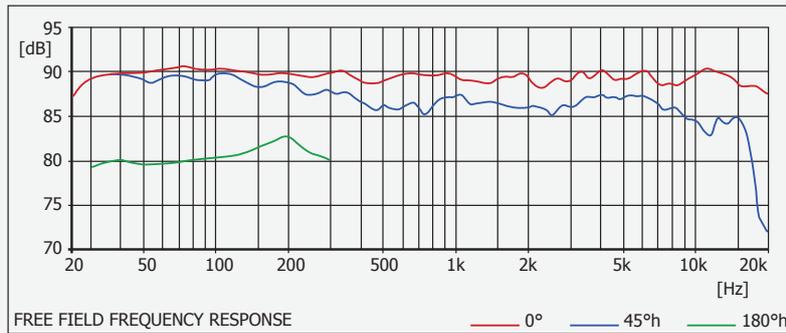
A variety of special stands and racks is available as accessories. According fixing elements have been integrated into the loudspeaker cabinet.

RL 901K

TECHNICAL PROPERTIES

General	active 3-way-monitor for listening distances between 2 and 4 m
Maximum SPL from 100 Hz ... 6 kHz	116 ... 122 dB / r = 1 m (3.3 ft)
Bandwidth	25 Hz ... 20 kHz \pm 3 dB
Calibration: Acoustic output level / PE = - 14 dBu	89 dB / r = 1 m (3.3 ft)
Directivity index from 200 Hz ... 10 kHz	increasing from 5 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 - 44 dB
Nominal Input level	+ 6 dBu adjustable
Input impedance	\geq 10 kOhm RC balanced
Nominal output power amplifier	
LF	180 Watt / 4 Ohm
MF	100 Watt / 4 Ohm
HF	100 Watt / 4 Ohm
Electronic Crossover frequencies	550 Hz and 2,8 kHz
Power requirements	230 Volt $\sim \pm$ 10 %, 50 Hz ... 60 Hz 115 Volt $\sim \pm$ 10 %, 50 Hz ... 60 Hz (Optional) 100 Volt $\sim \pm$ 10 %, 50 Hz ... 60 Hz (Optional)
Power consumption	35 VA at standby; max 300 VA at full load
Operation and Clipping indicator	LED on front side
Input Connector	XLR 3F
Mains Connection	IEC power connector
Loudspeaker systems	
Woofer	400 mm (16") cone
Mid-range unit	125 mm (5") cone
Tweeter	25 mm (1") dome
Dimensions (H x W x D)	550 x 500 x 430 mm (21.6 x 19.7 x 17 inch)
Weight	48 kg (105.6 lbs)
Temperature requirements	
for use	+ 15°C ... + 35°C (59°F ... 95°F)
for storage	- 25°C ... + 45°C (- 13°F ... 113°F)
Humidity	45 ... 75 %
Design of the Cabinet	MDF-wood in ash black veneered, different veneers or colors optional with holding device, optional without holding device with handles; optional without handles





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STUDIO MONITORING - HIGHEND LOUDSPEAKER - SOUND REINFORCEMENT SYSTEMS

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