



musikelectronic geithain

RL 901K

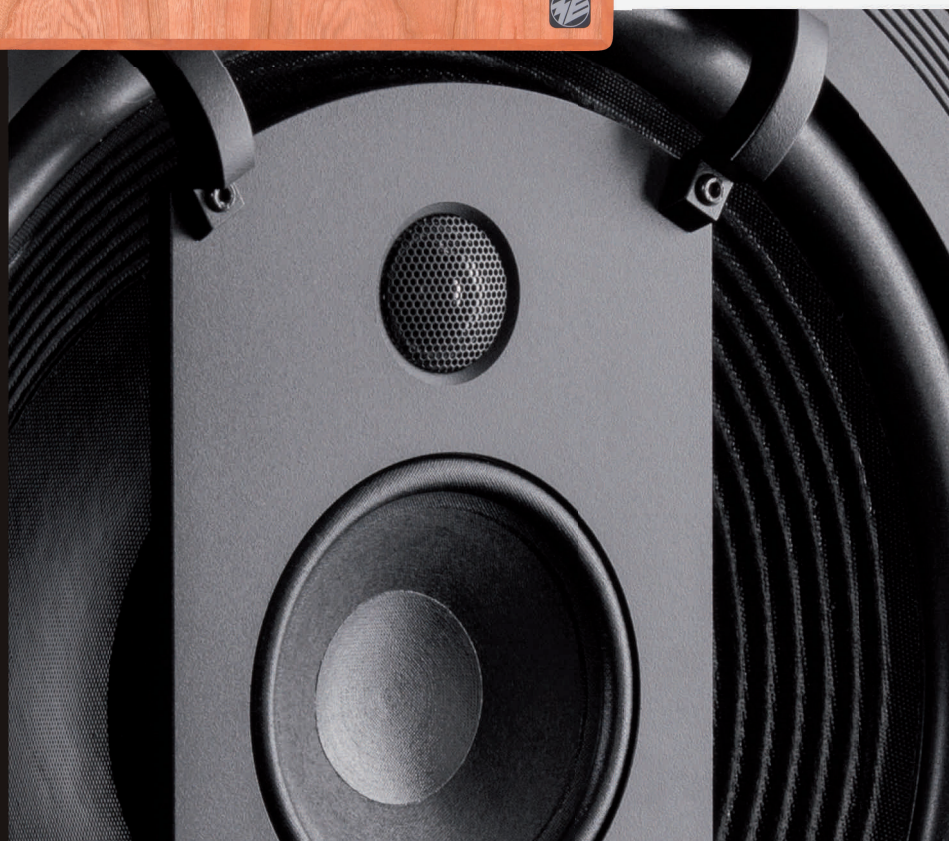


ACTIVE 3-WAY COAXIAL
LOUDSPEAKER WITH CARDIOID
RADIATION CHARACTERISTIC

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 discoloration-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

Maximum SPL
from 100 Hz ... 6 kHz

Bandwidth

Calibration:

Acoustic output level / PE = - 14 dBu

Directivity index
from 200 Hz ... 10 kHz

Inherent noise sound level

Total harmonic distortion
measured at 96 dB / r = 1 m (3.3 ft)
from 100 Hz ... 10 kHz

Nominal Input level

Input impedance

Nominal output power amplifier

LF

MF

HF

Electronic Crossover frequencies

Power requirements

Power consumption

Operation and Clipping indicator

Input Connector

Mains Connection

Loudspeaker systems

Woofer

Mid-range unit

Tweeter

Dimensions (H x W x D)

Weight

Temperature requirements

for use

for storage

Humidity

Design of the Cabinet

active 3-way-monitor for listening distances between 2 and 4 m

116 ... 122 dB / r = 1 m (3.3 ft)

25 Hz ... 20 kHz \pm 3 dB

89 dB / r = 1 m (3.3 ft)

increasing from 5 to 10 dB

\leq 7 dB (A) / r = 1 m (3.3 ft)

\leq - 44 dB

+ 6 dBu adjustable

\geq 10 kOhm RC balanced

180 Watt / 4 Ohm

100 Watt / 4 Ohm

100 Watt / 4 Ohm

550 Hz and 2,8 kHz

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)

35 VA at standby; max 300 VA at full load

LED on front side

XLR 3F

IEC power connector

400 mm (16") cone

125 mm (5") cone

25 mm (1") dome

550 x 500 x 430 mm (21.6 x 19.7 x 17 inch) K1 = 480 x 460 x 400

48 kg (105.6 lbs)

+ 15°C ... + 35°C (59°F ... 95°F)

- 25°C ... + 45°C (- 13°F ... 113°F)

45 ... 75 %

MDF-wood in ash black veneered, different veneers or colors optional
with holding device, optional without holding device
with handles; optional without handles

RL901K-1 version is the same as the
"K" version above, except for:-

DIMENSIONS (H x W x D)

Loudspeaker: 480 x 460 x 400 mm

Amplifier: 520 x 310 x 200 mm

Pedestal: 600 x 470 x 410 mm

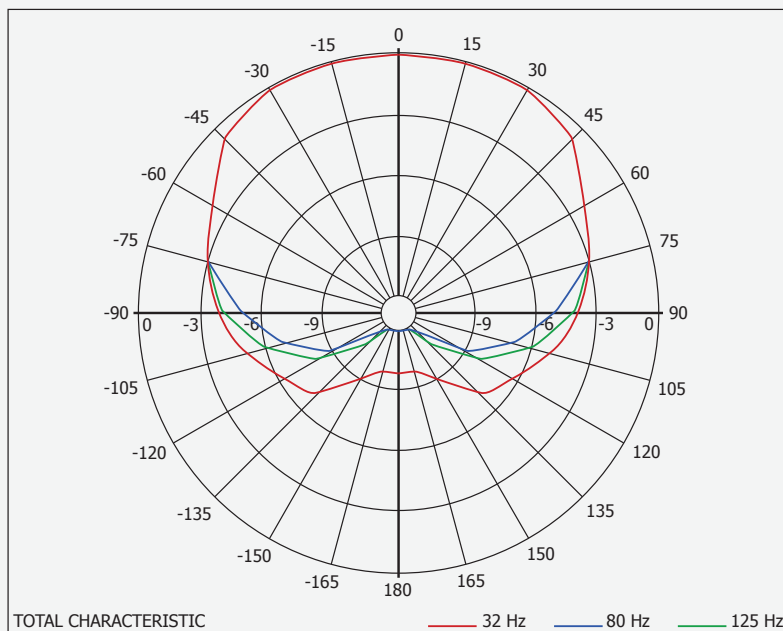
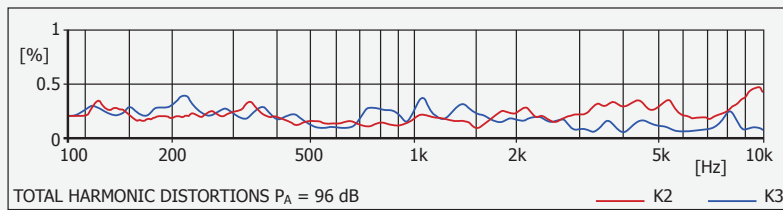
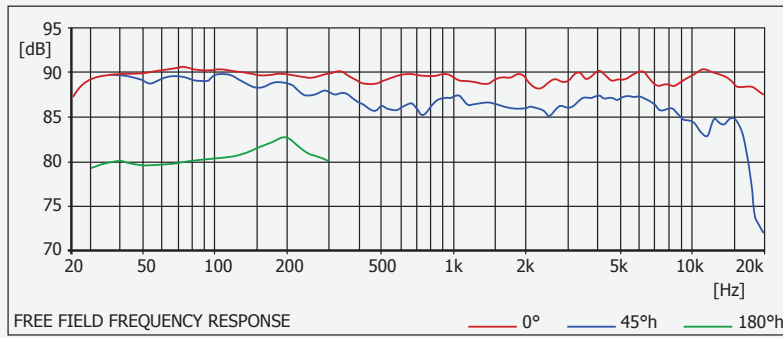
WEIGHT

Loudspeaker: 34.9 kg

Amplifier: 13.3 kg

Pedestal: 17.0 kg





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STUDIO MONITORING - HIGHEND LOUDSPEAKER - SOUND REINFORCEMENT SYSTEMS

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