



musikelectronic geithain

# RL 930



Active 2-way Coaxial  
Loudspeaker in vented box

STUDIO MONITORING SYSTEMS

HIGHEND LOUDSPEAKER

SOUND REINFORCEMENT SYSTEMS

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

### RL Series

From a compact two-way monitor up to large loudspeaker-systems - we provide you with the best solutions for all kinds of professional use. The RL series' studio-monitors are the result of consequent development that needed many years and pursued only one aim: the highest degree of precise sound without any coloration regardless of genres. Hearing and measuring are the basis of our work. We build on profound musical comprehension and the knowledge of unalterable physical laws - not on magic tricks, new fashioned ideas or marketing-strategies.

### You have to do it you yourself!

We produce loudspeaker in accordance to our conviction. That is why we develop and construct all monitors ourselves - from A to Z, from the electronics of the amplifier to the voice coil of the transducer. A product, which components all come from our own manufacturing, has noticeable advantages for you as a professional customer. We are independent of third parties products and build our components just the way we require them - this proceeding can't be beaten in quality by mass-production. This strategy also leads to high continuity and a fixed (stable) value of our product range as well as it ensures that

replacement parts will be available for long-term. We believe that this is the only way to create a product which is worth your investment and satisfies your professional needs for many years.

### Active and Coaxial

Active multi-way technique with internal crossovers, power amplifier, and our special coaxial arranged transducers are the basis of all professional monitors of our RL series. As a result of this technology our speaker reveal a great depth and precise focus and low harmonic distortion. We used physiological effects of hearing to optimize the power concentration and directivity of sound. This degree of accuracy of sound is unmatched by any other.

### Made from one piec

All RL-loudspeaker are tonal compatible with each other. Therefore it is your choice where you prefer to work; even within the same production you are independent from the studio environment. No matter if you work in a broadcast van or in a studio - the loudspeaker will not differ in sound, but only in their low-frequency cutoff and the maximum acoustic output.

## Active Studio Reference Loudspeaker RL 930

The RL 930 is an all-round main control studio monitor for medium-size audio, video and film studios. Low and middle frequencies are reproduced by a specially developed 10-inch cone loudspeaker. For high frequencies, the RL 930 features three vertically arranged 1-inch dome tweeters which are positioned in front of the bass/mid-range system. The coaxial arrangement of the loudspeaker systems ensures a highly natural and homogenous punctiform image of the sound source. The directivity index has been optimised for listening distances between 2.50 and 5 metres, allowing excellent depth arrangement and coloration neutrality. Even at high reproducing levels, the loudspeaker renders an excellent performance with extraordinarily low non-linear distortions. The bass reflex system that has been designed to provide high transient fidelity allows for a low threshold frequency of 38 Hz. Additionally, the loudspeaker is optimised regarding group delay time.

The two-channel MOSFET power amplifier with electronic crossover is integrated into the rear wall of the cabinet and can be swung out for service purposes. An intermittent LED signalises overmodulation. If the maximum level is exceeded, the output level will be attenuated by 20 dB in order to protect the components from overload. For adaptation of the frequency response to the acoustic conditions of reproduction room and loudspeaker set-up position, low-frequency room compensation can be achieved within two variably adjustable frequency bands.

A variety of special stands and racks are available as accessories; according fixing elements are integrated into the loudspeaker cabinet.

# RL 930

## TECHNICAL PROPERTIES

### General

Maximum SPL  
from 100Hz ... 6 kHz

Bandwidth

Calibration:

Acoustic output level /  $P_E = -14\text{ dBu}$

Directivity index  
from 100Hz ... 10 kHz

Inherent noise sound level

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

Nominal Input level

Input impedance

Nominal output power MOSFET-amplifier

LF

HF

Electronic Crossover frequencies

Power requirements

Power consumption

Operation and Clipping indicator

Input Connector

Mains Connection

Loudspeaker systems

Woofer

Tweeter

Dimensions (H x W x D)

Weight

Temperature requirements

for use

for storage

Humidity

Design of the Cabinet

active 2-way-monitor for listening distances  
between 2.5 and 5 m (8.2ft and 16.4ft)

113 ... 118dB /  $r = 1\text{ m}$  (3.3ft)

38Hz ... 20kHz  $\pm 3\text{ dB}$

89dB /  $r = 1\text{ m}$  (3.3ft)

increasing from 2 to 13dB

$\leq 7\text{ dB (A)}$  /  $r = 1\text{ m}$  (3.3ft)

$\leq -45\text{ dB}$

+ 6dBu adjustable

$\geq 10\text{ kOhm}$  RC symmetrically

150 Watt / 4Ohm

100 Watt / 4Ohm

2.2kHz

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)

18VA at standby; max. 200 VA at full load

LED on front side

XLR 3F

Euro cold-unit connector

260 mm (10") cone

3x 25 mm (1") dome

475 x 350 x 324 mm (18.8 x 13.8 x 12.8 in)

22 kg (48.5 lbs)

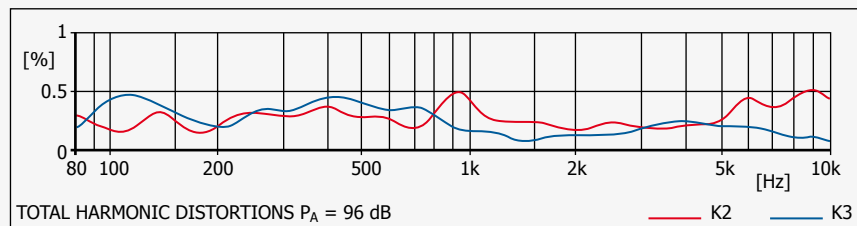
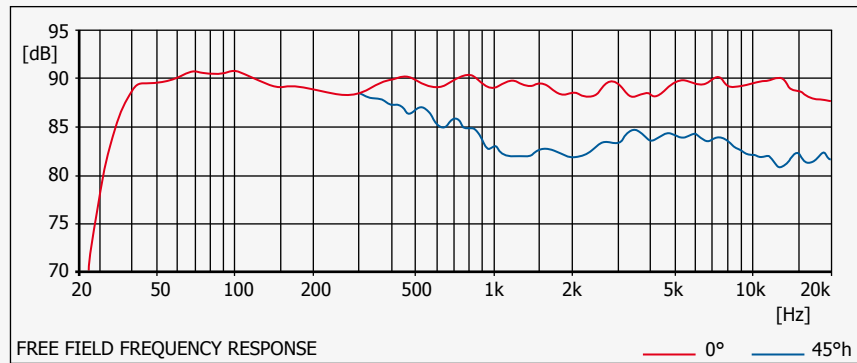
+ 15°C ... + 35°C (59°F ... 95°F)

- 25°C ... + 45°C (- 13°F ... 113°F)

45 ... 75%

MDF-wood in ash black veneered,  
different veneers or colors optional





## **musikelectronic geithain gmbh**

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SYSTEMS SYSTEMS

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