



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 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 tweeter calottes which are positioned in front of the bass/midrange 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 100 Hz ... 6 kHz

active 2-way-monitor for hearing distances between 2,50 and 5 m

113 ... 118 dB / r = 1 m (3.3 ft)

Bandwidth

38 Hz ... 20 kHz  $\pm$  3 dB

Calibration:

Acoustic output level / PE = - 14 dBu

89 dB / r = 1 m (3.3 ft)

Directivity index

from 100 Hz ... 10 kHz

increasing from 2 to 13 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

$\leq$  - 45 dB

Nominal Input level

+ 6 dBu adjustable

Input impedance

$\geq$  10 kOhm RC symmetrically

Nominal output power MOSFET-amplifier

LF

150 Watt / 4 Ohm

HF

100 Watt / 4 Ohm

Electronic Crossover frequencies

2,2 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

max. 200 Watt at full load

Operation and Clipping indicator

LED on front side

Input Connector

XLR 3F

Mains Connection

Euro cold-unit connector

Loudspeaker systems

Woofer

260 mm (10") cone

Tweeter

3x 25 mm (1") dome

Dimensions (H x W x D)

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

Weight

22 kg (48.5 lbs)

Temperature requirements

for use

+ 15°C ... + 35°C (59°F ... 95°F)

for storage

- 25°C ... + 45°C (- 13°F ... 113°F)

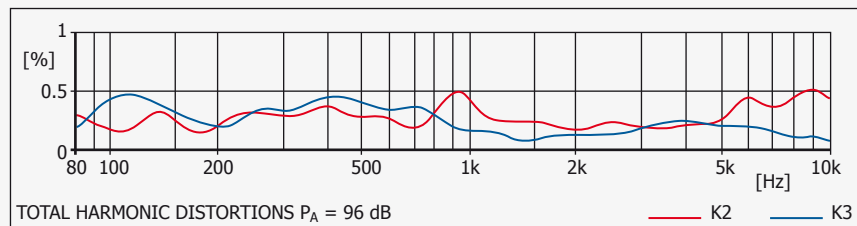
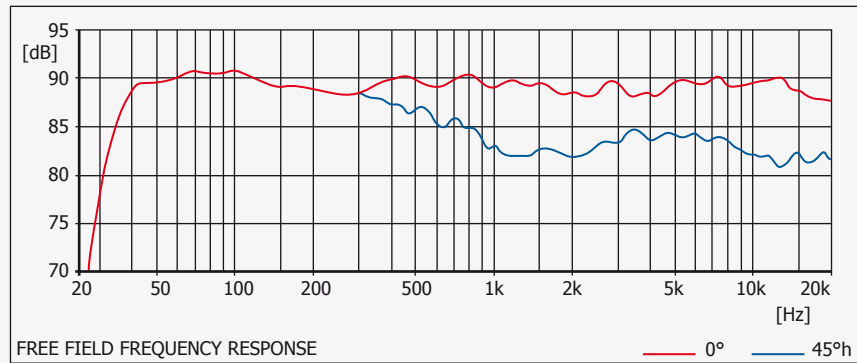
Humidity

45 ... 75 %

Design of the Cabinet

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





## **musikelectronic geithain gmbh**

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SYSTEMS SYSTEMS

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