



musikelectronic geithain

# RL 940 RL 940C



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 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 discolouration-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 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 pro-

duction 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, powerful amplifiers and the application of our special coaxial technology are the basis for all our 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 940

The RL 940 has been designed for both the professional user at small to medium-size audio, video and film studios and for the discerning music enthusiast. With the directivity index optimised for mid-distance monitoring, an excellent depth arrangement with neutral colouration is achieved. The coaxial configuration of the drive units delivers a sound stage with outstanding authenticity and consistency of imaging. The loudspeaker also distinguishes itself at high listening volumes through the presence of exceptionally low levels of non-linear distortion. The vented cabinet is tuned to 38 Hz and allows an uncompromising impulse response. The total system is additionally optimised for group delay.

The two channel amplifier with an electronic crossover is integrated within the rear of the enclosure, swivel out for maintenance purposes. An intermittent flashing LED indicates when the level reaches the system overload threshold. If the maximum level is exceeded continuously, the output level is attenuated by 20 dB to protect the components from damage. Two gapless variable low

frequency controls provide separate adjustment of two frequency bands to enable the frequency response to be matched to the acoustic environment of the listening room.

In surround systems the RL 940 performs excellent as front and effect loudspeaker. As a centre speaker the RL 940C was designed, which is better integrable due to its lesser height. In addition the speaker is inclinable up to 15° to the top with the height-adjustable feet at the cabinet bottom. Therefore a perfect alignment to the listening position is possible. The centre speaker RL 940C doesn't fall behind the RL 940 regarding acoustical and technical performance. In connection with one of our BASIS models the surround system is perfectly complemented.

A variety of special stands and holding devices are available as accessories to the RL 940; appropriate mounting elements are integrated into the cabinet.

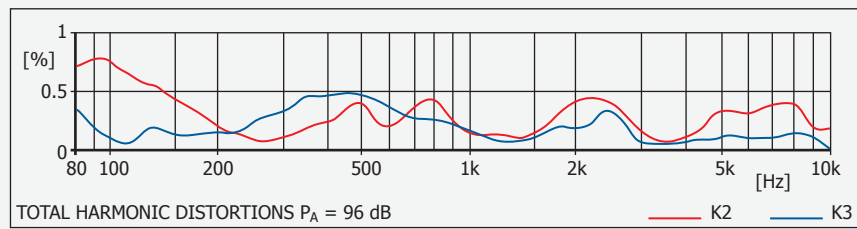
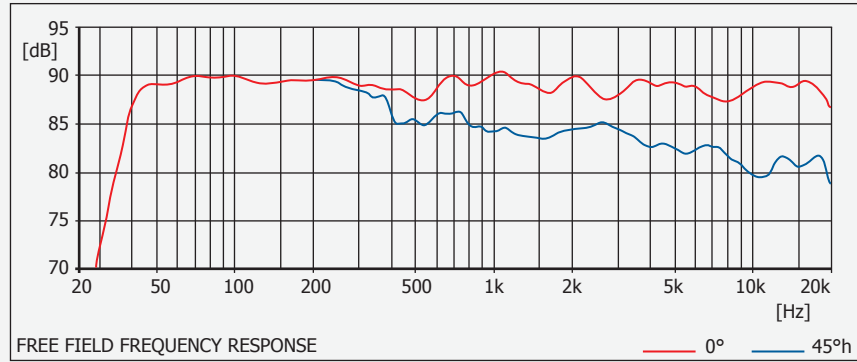


**RL 940**  
**RL 940C**

# SPECIFICATIONS

General	active 2-way-monitor for listening distances between 1.50 m and 3 m
Maximum SPL from 100 Hz ... 6 kHz	110 ... 114 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 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 kOhms RC symmetrically
Nominal output power amplifier LF HF	150 W @ 4 Ohms 100 W @ 4 Ohms
Electronic Crossover frequencies	1.8 kHz
Power requirements	230 V $\sim \pm$ 10 %, 50 Hz ... 60 Hz 115 V $\sim \pm$ 10 %, 50 Hz ... 60 Hz (optional) 100 V $\sim \pm$ 10 %, 50 Hz ... 60 Hz (optional)
Power consumption	max. 180 VA at full load
Operation and Clipping indicator	LED on front side
Input Connector	XLR 3F
Mains Connection	IEC power connector
Loudspeaker systems Woofer Tweeter	205 mm (8") cone 25 mm (1") dome
Dimensions (H x W x D) Loudspeaker RL 940 Loudspeaker RL 940C	398 x 254 x 345 mm (15.6" x 10.0" x 13.6") 254 x 398 x 345 mm (10.0" x 15.6" x 13.6")
Weight	18 kg (39 lbs)
Temperature requirements for use for storage Humidity	+ 15°C ... + 35°C (59°F ... 95°F) - 25°C ... + 45°C (- 13°F ... 113°F) 45 % ... 75 %
Design of the Cabinet Loudspeaker RL 940 Loudspeaker RL 940C	MDF-wood in ash black veneered; different veneers or colours optional optionally without holding device available with height-adjustable feet at the cabinet bottom





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SYSTEMS SYSTEMS

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