



**Active Studio Reference Loudspeaker
RL 940**



musikelectronic geithain

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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 nor 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 piece

All RL-loudspeaker from the compact RL 906 to the RL 900 A 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 940

The RL 940 is a main control room monitor designed for use in medium and small sound, video and film studios. The coaxial configuration of the drive units delivers a sound stage with outstanding authenticity and consistency of imaging. With the focal perspective optimised for mid-distance monitoring, an excellent depth of field with neutral colouration is achieved. The loudspeaker also distinguishes itself at high listening volumes through the presence of exceptionally low levels of non-linear distortion. A tuned bass-reflex, with uncompromising impulse response allows the low frequency response to extend to 38 Hz. The total system is additionally optimized for group delay.

The two channel MOSFET amplifier with an electronic crossover is integrated within the rear of the enclosure, hinging out for maintenance purposes. An intermittent flashing LED

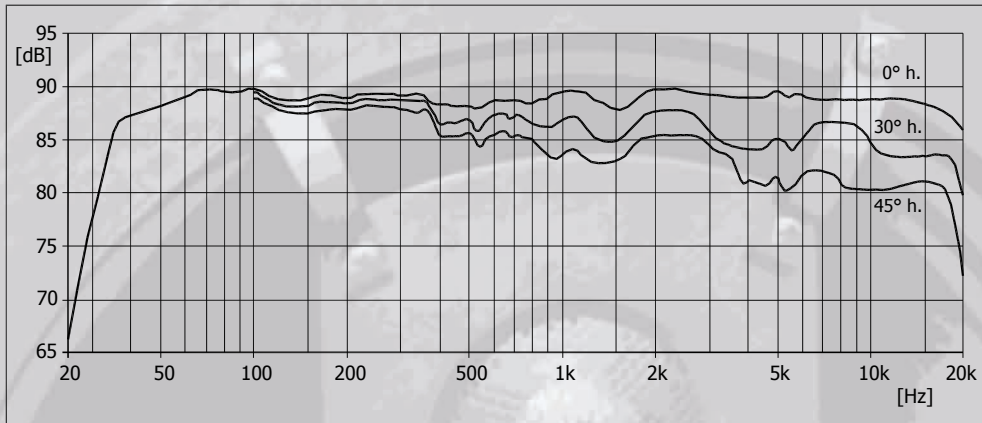
indicates when the level reaches the system overload threshold. If the maximum level is exceeded continuously, the output level is attenuated by 20 dB to protect the components from damage.

The system drive units can be rotated through 90° to allow the loudspeaker to be placed upright, or horizontally. Two infinitely 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.

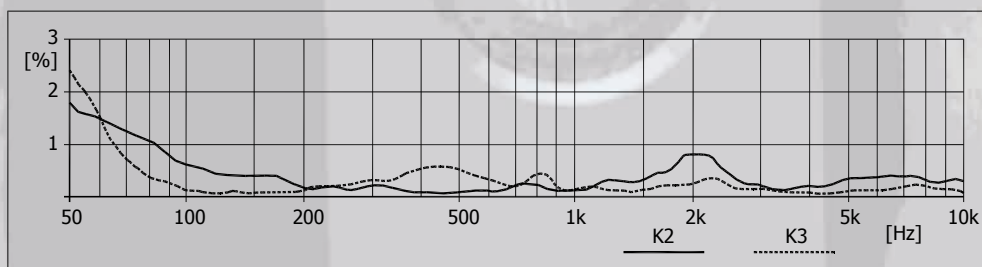
A range of dedicated stands and mountings are available as accessories, the appropriate fittings for the stands or mountings are supplied integrated into the loudspeaker cabinet during manufacture. The loudspeaker can be supplied with magnetic shielding if requested.

Specifications

General	active monitor for use in audio-, video production studios	
Maximum SPL from 100 Hz ... 6 kHz	110 dB ... 114 dB / r = 1 m	
Bandwidth	38 Hz ... 20 kHz \pm 3 dB	
Calibration: Acoustic output level / $P_E = -14$ dBu	89 dB / r = 1 m	
Directivity index from 100 Hz ... 10 kHz	increasing from 2 to 10 dB	
Inherent noise sound level	\leq 7 dB (A) / r = 1 m	
Total harmonic distortion measured at 96 dB / r = 1 m from 100 Hz ... 10 kHz	\leq - 40 dB	
Nominal input level	+ 6 dBu adjustable	
Input impedance	\geq 10 kOhm / symmetrically	
Nominal Output power of the MOSFET-amplifier		
LF	150 Watt / 4 Ohm	
HF	100 Watt / 4 Ohm	
Electronic crossover frequencies	1.8 kHz	
Power requirements	Europe	230 Volt (\pm 10 %), AC, 50 Hz
	USA & Canada	115 Volt (\pm 10 %), AC, 60 Hz
	Japan	100 Volt (\pm 10 %), AC, 60 Hz
Power consumption	max. 180 Watt at full load	
Operation and Clipping indicator	LED on front side	
Input connector	XLR 3F	
Dimensions (H x W x D)	398 x 254 x 345 mm	15.6 x 10.0 x 13.6 in.
Weight	18 kg	39 Ibs
Temperature requirements		
For use	+ 15 °C ... + 35 °C	
For storage	- 25 °C ... + 45 °C	
Humidity	45 % ... 75 %	
Loudspeaker systems		
Woofer	205 mm cone	8" cone
Tweeter	25 mm dome	1" dome
Magnetic shield	optional	
Design of the cabinet	MDF wood, ash black veneered / beech veneered different colors / veneers optional	



Free field frequency response



Total harmonic distortion $P_A = 96$ dB



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studio monitoring systems - sound reinforcement systems

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