



musikelectronic geithain

# RL 801K



Active 3-way-Coaxial  
Loudspeaker with cardioid  
characteristik in bass range

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 loudspeakersystems - 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 optimise 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 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 801K

The RL801K is an all-round main control studio monitor for large audio, video and film studios. Its 3-way concept consists of a 15-inch woofer system, a 6.5-inch high-performance midrange system and a tweeter array with three vertically arranged 1-inch tweeter calottes. The coaxial arrangement of the loudspeaker systems ensures a highly natural and homogenous punctiform image of the sound source. The radiation characteristics of the RL 801K have been optimised for listening distances between three and six 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. Our reliable KTechnology (cardioid radiation characteristics in the bass range) minimises rearward-directed room reflections, making it easy to position the RL 801K in the listening room.

The three-channel power amplifier that features one 1000W and two 500W PWM amplifier modules and an 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 20dB 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.

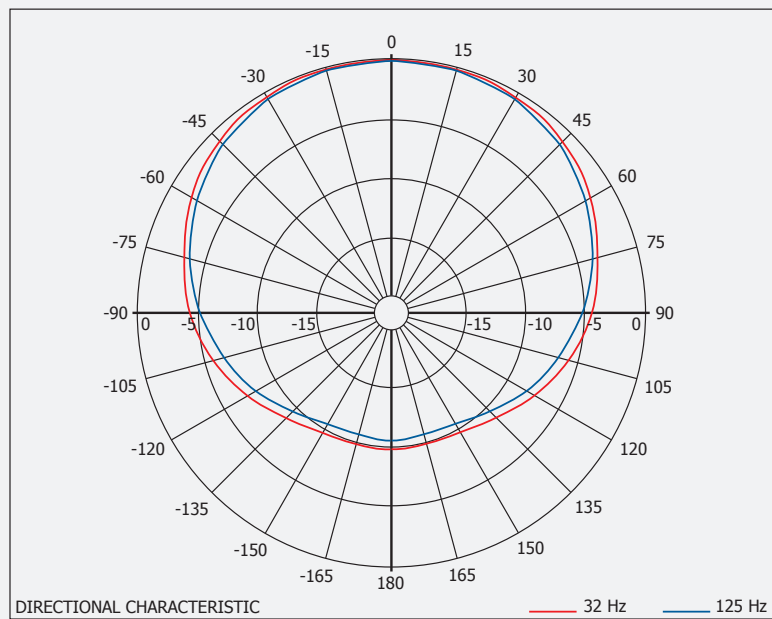
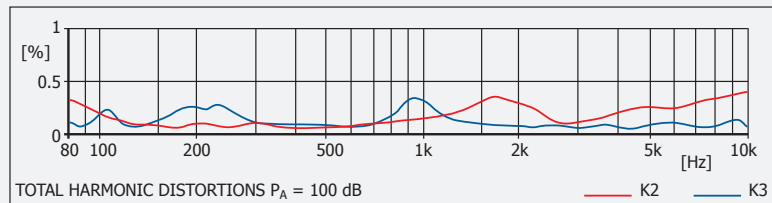
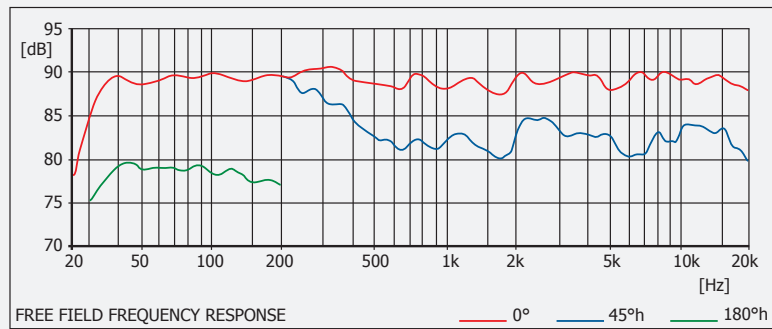
A variety of special stands and racks are available as accessories; according fixing elements are integrated into the loudspeaker cabinet.

# RL 801K

## TECHNICAL PROPERTIES

|  |  |
|--|--|
| General  | Active 3-way High-Performance-Loudspeaker for hearing distances between 3 and 6 m        |
| Maximum SPL<br>to IEC 268-1<br>Programme material  | ≥ 117 dB<br>122 dB peak / r = 1 m (3.3 ft)   |
| Bandwidth  | 25 Hz ... 22 kHz - 6 dB  |
| Calibration:<br>Acoustic output level / P <sub>e</sub> = - 14 dBu                            | 90 dB / r = 1 m (3.3 ft)   |
| Directivity index<br>from 100 Hz ... 10 kHz  | increasing from 4 to 10 dB   |
| Inherent noise sound level   | ≤ 10 dB (A) / r = 1 m (3.3 ft)   |
| Total harmonic distortion<br>measured at 100 dB / r = 1 m (3.3 ft)<br>from 100 Hz ... 10 kHz | ≤ - 45 dB  |
| Nominal Input level  | + 6 dBu adjustable   |
| Input impedance  | ≥ 10 kOhm RC symmetrically   |
| Electronic Crossover frequencies   | 550 Hz and 2.2 kHz   |
| Output power PWM-amplifier<br>LF<br>MF<br>HF   | max. 1000 Watt / 4 Ohm<br>max. 500 Watt / 4 Ohm<br>max. 500 Watt / 4 Ohm                 |
| Power requirements   | 90 ... 132 V, 55 ... 65 Hz; 190 ... 265 V, 45 ... 55 Hz                                  |
| Power consumption  | 30 VA at standby, max. 1000 VA at full load  |
| Mains Connection   | Euro cold-unit connector with HF-filter  |
| Operation and Clipping indicator   | LED on front side  |
| Input Connector  | XLR 3F (programme input)   |
| Output Connector   | XLR 3M (bass expansion)  |
| Loudspeaker systems<br>Woofer<br>Mid-range unit<br>Tweeter                                   | 1x 400 mm (15") cone<br>1x 160 mm (6") cone<br>3x 25 mm (1") dome                        |
| Dimensions (H x W x D)   | 550 x 500 x 430 mm (21.7 x 19.7 x 16.9 in)   |
| Weight   | 48 kg (105.6 lbs)  |
| Temperature requirements<br>for use<br>for storage<br>Humidity                               | + 15°C ... + 35°C (59°F ... 95°F)<br>- 25°C ... + 45°C (- 13°F ... 113°F)<br>45 ... 75 % |
| Design of the Cabinet  | MDF-wood in ash black veneered,<br>different veneers or colors optional                  |





## musikelectronic geithain gmbh

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