

musikelectronic geithain



Studio  
Monitor Loudspeaker  
MO-1



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

### **MO-1 Monitor**

#### **for the supplementation of the RL series**

By means of the RL family, we have contributed the right monitor for each professional use. Now the MO-1 is the consequent further development of the RL series for extraordinary operational conditions with maintaining the professional demands

### **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 fixed values 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 Monitor MO-1

The two-way coaxial active loudspeaker MO-1 is the sound monitoring system for cutting suites and smaller OB vans. Moreover, it can be used for surround loudspeakers in smaller rooms with multichannel sound configurations and for the reproducing system in smaller conference reinforcement systems.

By analogy to the RL series also the coaxial technology was used with the MO-1, so the tweeter is combined coaxially with an 100mm subwoofer system. Therefore with the MO-1, an excellent localization behaviour and an optimum phantom sound source imaging could be reached. Also these characteristics are main properties of the studio monitors of the RL series. With very compact dimensions, a lower limiting frequency of 100 Hz could be reached. But it is very simple, of

course, to operate the MO-1 in combination with the special subwoofer box BASIS 1.

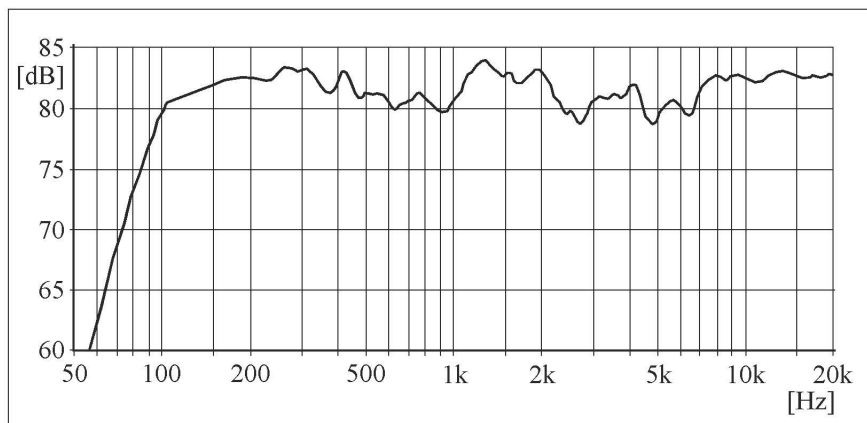
The psycho-acoustical conditions of the near-field listening were considered with the designing of the frequency response to avoid symptoms of tiredness with longer listening.

The power amplifier is situated at the back of the cabinet. On the frontal side, two LED's are located for the indication of the operation as well as of overloading. Further, there are two controllers to adjust the level and the low-frequency response.

The monitor is magnetically shielded. Additionally, there are various elements available as optional extras, for mounting on table or wall stands etc. If necessary, a DC/AC converter, 12V/24V DC to 230 V AC, can be delivered, providing two monitors.

## Specifications

General	Small Outside Broadcasting Vans, Surround speakers and loudspeakers determined for small rooms and in multichannel equipment, reproducing systems of small conference sound equipment
Maximum SPL	102 ... 105 dB/ r=1m
Bandwidth	100 Hz ... 20 kHz $\pm$ 3dB
Inherent noise sound level	$\leq$ 6 dB(A) / r=1m
Total harmonic distortion measured at 80 dB / r=1m in the range from 200 Hz ... 10 kHz	$\leq$ -36 dB
Nominal input level	0 ... +15dB cont. adjustable
Input impedance	$\geq$ 10 kOhm / symmetrically
Nominal output power	
LF	25 Watt at 4 Ohm
HF	15 Watt at 8 Ohm
Electronic crossover frequency	7 kHz
Bass lower	cont. adjustable
Operation indicator	LED on the front side
Clipping indicator	LED on the front side
Input connector	XLR 3F
Mains connection	Euro cold-unit connector
Loudspeaker systems	
Woofer	100 mm cone
Tweeter	19 mm dome
Mains voltage	230 Volt AC $\pm$ 10% 50 .... 60 Hz USA & Canada 127 Volt AC 60 Hz
Power consumption	max. 40 Watt at full load
Dimensions (H x W x D)	198 x 146 x 160 [mm]
Weight	3.2 kg
Temperature requirements	
for use	+15°C to +35°C
for storage	-25°C to +45°C
Humidity	45 - 75 %
Design of the Cabinet	MDF wood, black veneer, different colours optional



Free field frequency response



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studio techniques - sound reinforcement systems

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