



musikelectronic geithain

# RL 906D



ACTIVE 2-WAY COAXIAL  
LOUDSPEAKER IN VENTED BOX  
WITH AES3 CONNECTOR

STUDIO MONITORING SYSTEMS

HIGHEND LOUDSPEAKER

SOUND REINFORCEMENT SYSTEMS



The RL906D is a compact two-way loudspeaker consequently optimised for usage as a near-field monitor. Either in an outside broadcasting van, on top of the meter bridge or in the home studio and even as an precious hi-fi monitor it is more than convincing.

The RL906D is identical in construction to the RL906, which comes with an additional AES3 digital input. There is an input selector on the back, where the left channel, the right channel or the mono sum could be selected. According to all our other products, there is also the possibility to use an analogue input signal. To synchronize the digital audio signal, with the video signal, you could delay it in 16 steps frame wise. The frame refresh rate could be programmed internal.

By Musikelectronic Geithain's coaxial technology a directivity was realised, that is especially adjusted to the requirements of near-field monitoring, meaning small base widths and short listening distances. Homogeneity, neutral tone quality and directional definition are most widely compatible to the greater speakers from the RL series. This allows seamless working without familiarisation phases along the whole audio production, regardless if it is in an outside broadcasting van, the cutting room or in the great studio. The RL906D is barely greater than a controlling monitor, but it houses the power capability of a full-valued studio monitor. The bass reproduction as well as the maximum level meet the requirements of most challenges. In 5 channel applications, demanding a higher level in the lowest frequency range, the RL906D is perfectly combined with our models from the Basis series whereby it moves closer to the greater models.

The loudspeaker is equipped with a 13 cm (5") cone woofer and a coaxial arranged 25mm (1") tweeter. Each is powered by a separate MOSFET-amplifier with active crossover and electronic overload protection. The amplifier is situated in the back of the cabinet. The RL906D provides a balanced XLR-type input with an adjustable input level. To compensate their placement, the speaker features three controllers to continuously adjust the high- and low-frequency response and also the frequencies around 300Hz. These controllers are attached to the cabinet's backside. A two-coloured LED indicates the state of the amplifier and warns of clipping.

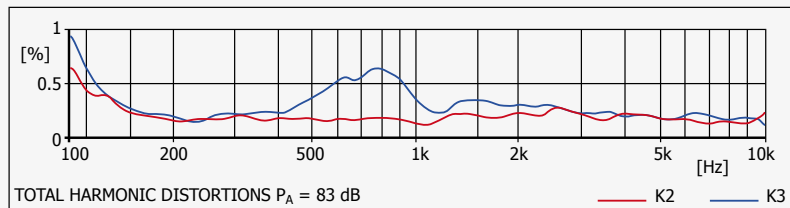
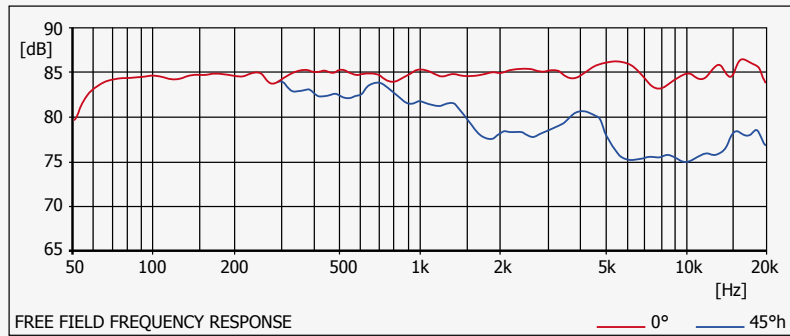
A variety of special stands and racks is available as accessories. According fixing elements have been integrated into the loudspeaker cabinet.



# RL906D

## SPECIFICATIONS

general	active 2-way coaxial loudspeaker for listening distances between 1 m and 2.6 m (3.3 ft and 8.6 ft)
maximum SPL from 100 Hz ... 3 kHz	104 ... 108 dB / r = 1 m (3.3 ft)
bandwidth	50 Hz ... 20 kHz $\pm$ 3 dB
calibration: acoustic output level / $P_E = -14$ dBu	76 dB / r = 1 m (3.3 ft)
directivity Index from 200 Hz ... 10 kHz	increasing from 1.5 to 11 dB
inherent noise sound level	$\leq$ 7 dB(A) / r = 1 m (3.3 ft)
total harmonic distortion measured at 83 dB / r = 1 m (3.3 ft) from 150 Hz ... 10 kHz	$\leq$ -40 dB
nominal input level	+6 dBu adjustable
Input impedance	$\geq$ 10 kOhm RC balanced
electronic crossover frequencies	3 kHz
nominal output power amplifier	
LF	80 W / 4 Ohm
HF	80 W / 4 Ohm
input connector	XLR 3F for AES3 and analogue
input choice switch for input connector	analogue signal AES3 left AES3 right AES3 left + right
rotary switch for delay	16 positions for up to 16 frames delay
frame rate	
standard setting	50 Hz / 1 switch position equivalent 20 ms
programmable frequencies	24 Hz; 25 Hz; 29.97 Hz; 30 Hz; 50 Hz; 59.94 Hz; 60 Hz
supported sampling rates	44.1 kHz; 48 kHz; 88.2 kHz; 96 kHz; 176.4 kHz; 192 kHz
resolution	24 bit
loudspeaker systems	
woofer	130 mm (5") cone
tweeter	25 mm (1") dome
operation and clipping indicator	LED on front side
power requirements	230 V $\sim \pm 10\%$ , 50 ... 60 Hz 115 V $\sim \pm 10\%$ , 50 ... 60 Hz (optional) 100 V $\sim \pm 10\%$ , 50 ... 60 Hz (optional)
power consumption	max. 100 VA at full load
mains connection	IEC power connector
temperature requirements	
for use	+15°C ... +35°C
for storage	-25°C ... +45°C
humidity	45 % ... 75 %
dimensions (h x w x d)	255 x 180 x 200 mm (10 x 7.1 x 7.9 inch)
weight	5.5 kg (12.1 lbs)
design of the cabinet	MDF wood in ash black veneered; optional other veneers or colours with holding device; optional without holding device



## **musikelectronic geithain gmbh**

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SYSTEMS SYSTEMS

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