



Cortex Manikin

Key Benefits...

Needing highest quality artificial heads for sound recording?

Benefit from the experience of **01dB-Metravib & Cortex Instruments** in psychoacoustics to get the perfect product!

- Fully compliant with the IEC959 (Torso, Head, Ears shapes, Microphones position, Directivity)
- Most accurate and reproducible results
- Easy calibration of the microphones
- Seat stand with rotating mechanism and floor stand solutions
- Possible data acquisition with a PDA remote control



Cortex Manikin

Key Features...

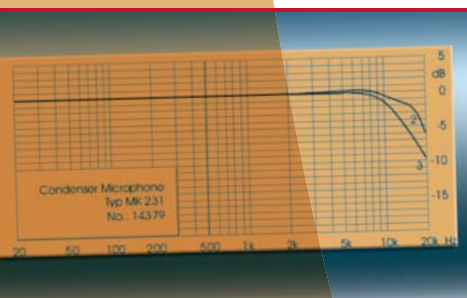
Perfect, true directivity sound reproduction

- ▶ By replicating human head and ears, the artificial head reproduces a spatial sound field with incredible fidelity.
- ▶ Highly increased accuracy for differentiating between single sound sources and their localization



Head and torso construction

- ▶ "Plug in" ears are made of tear resistant silicone rubber; together with head and torso, moulded to anatomically precise contours, they yield a faithful acoustic directivity pattern
- ▶ Microphones accessible for replacement by means of rear panel removable with a single thumb screw



Acquisition front-end

- ▶ Output of the manikin connected to any acquisition front-end,
- ▶ Preferably to NetdB-DAQ12, our sound quality oriented platform: 12 channels, real-time equalization, audio digital outputs, 2 analog outputs, data storage on the disk, up to 4 synchronized manikins + RPMs



Cortex Manikin Technical Specifications

Features	Cortex Manikin
<h3>Mechanical specifications</h3>	<ul style="list-style-type: none"> ▶ Colour: Gray ▶ Dimensions: 520 x 430 x 240 mm (W x H x D) ▶ Weight: 14 lbs (7 kg) ▶ Material: Polyurethane with Nextel coating ▶ Ears: soft silicone ▶ Directivity: In acc. with IEC 959 & DIN V 45608 ▶ Output: 2 analog outputs (Left & right ears) 
<h3>Microphones specifications</h3>	<ul style="list-style-type: none"> ▶ Type: MTG NC-MK231 1/2 " ▶ Polarisation voltage: +200 VDC ▶ Heating voltage: +12 VDC ▶ Freq. range free-field: 3,5 Hz to 16 kHz (\pm 3 dB) ▶ Sensitivity: 50 mV/Pa ▶ Max. SPL for THD < 3 % at 1 kHz: 146 dB ▶ Inherent noise: 15 dBA ▶ Polarisation voltage: 200 V 
<h3>Repeatability</h3>	<p>Production process fully controlled.</p> <p>Cortex manikin is a completely repeatable metrological system as illustrated on figure beside showing 3 manikin responses for a front view incidence of the sound field.</p>
<h3>Standards</h3>	<p>The directivity of the Cortex (red curves) fits to the IEC959 standard (black curves are min. and max level to be satisfied all along the frequency range).</p> 
<h3>Accessories</h3>	<ul style="list-style-type: none"> ▶ Seat Stand to hold the manikin on a seat (car applications) - COC3050000 ▶ Seat Stand to hold the manikin (industry applications) - COC3047000 ▶ Flight case for the secure transportation of the MK & its accessories - COC348000

RELATED PRODUCTS

- NetdB-DAQ12, 12 channel acquisition front-end
- Professional sound cards (VxPocket V2, VxPocket 440, Lynx One)
- OPUS 2 channels conditioning unit
- High quality headphone (HD580, HD650)
- dBSONIC psychoacoustic software
- dBJury sound quality evaluation software

The presented characteristics are subject to change without notice. Rev: 08/2006

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