# MERO5
## High-end 2-way in-wall speaker 5"

## Highlights:

- SlimLine™ grill with 1mm thin border
- Gold-Con™ spring clamps
- 1" + 5" Aluminum membrane drivers
- QuickFix installation system

## Product information:

The selection of high-grade materials in combination with accurate acoustics craftsmanship makes the MERO speakers superior in their class. The medium sized MERO5 consists of a 5" aluminum cone woofer and complementary 1" dome tweeter that are smoothly matched and optimized using a high-quality crossover network. An acoustically optimized waveguide matches the dispersion of woofer and tweeter, while a phaseplug reduces diffraction and enhances off-axis high frequency response. All these details share their part to its pure sound. An elegant look with minimal visual impact is created by the slim grill with very thin border, while great ease and installers convenience is guaranteed using the quick-fix mechanism with Gold-CON connectivities. The grill is held in place using neodymium magnets, providing a quick and stable assembly. Installation can be done in both vertically and horizontally, while the rotatable tweeter allows optimal orientation positioning.

## Applications:

- Hotels
- Corporate
- Residential
- Bars & Restaurants
- Retail

## Impedance:

8 Ohm

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## System specifications:

| | | | |
|---|---|---|---|
| Speaker type | | | 2-way |
| Peak power handling | | | 200 W |
| Program power handling | | | 100 W |
| RMS/AES power handling | | | 50 W |
| Impedance | | | 8 Ω |
| Sensitivity (1W/1m) | | | 85 dB |
| Sound Pressure (Max. W/1m) | | | 102 dB |
| Frequency | Response (± 3 dB) | | 70 Hz - 20 kHz |
| | Range (-10 dB) | | 55 Hz - 20 kHz |
| Crossover | Frequency | | 3 kHz |
| | Type | | Passive built-in |
| Dispersion | Horizontal | | 160° |
| | Vertical | | 140° |
| Connectors | | | Gold-Con™ spring clamps |
| Drivers | HF | | 1" Aluminium membrane |
| | | Rotation angle | 7.5° |
| | LF | | 5" Aluminium membrane (coaxial) |

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## Product Features:

| | | |
|---|---|---|
| Dimensions | | 161.5 x 236.5 x 74.1 mm (W x H x D) |
| Weight | | 1 kg |
| Construction | | ABS |
| Front finish | | Thin edged white grill (RAL9003) |
| Cut-out measurement | | 139 x 214 mm |
| Built-in depth | | 71 mm |
| Mounting & handling | | 4 Screw quick-fixing mechanism |
| Operating temperature | | -20 °C ~ 60 °C |
| Colours | | Black frame & white grill |
| Accessories | Included | Cut-out template |
| | Optional | WTR24 - 24W 100V line transformer |
| | | GLM05/B - Black grill (RAL9005) |
| | | GLM05/P - Paintable grill |
| | Included | GLM05/W - White grill (RAL9003) |

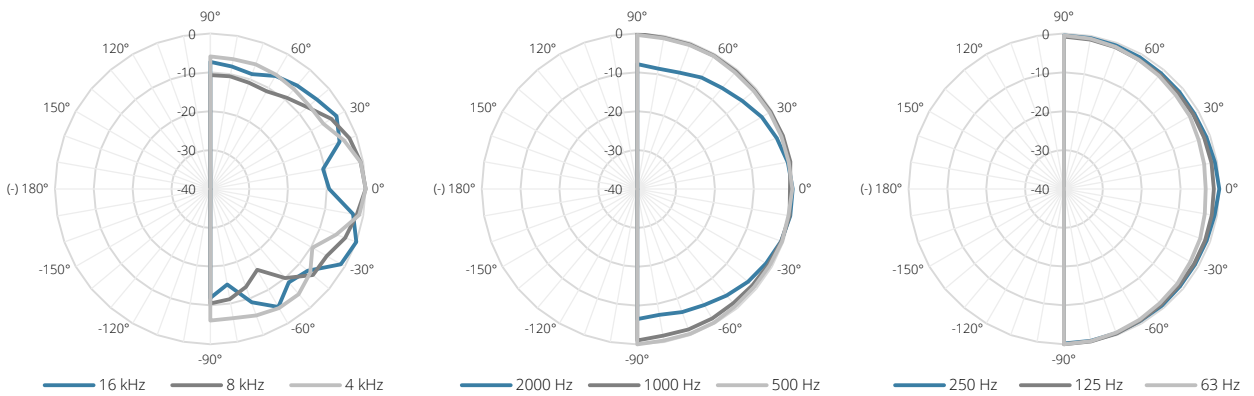## Architects' and Engineers' Specifications:

The in-wall loudspeaker shall be a 2-way type, equipped with a 5" aluminium cone low frequency driver and a 1" aluminium dome tweeter with neodymium magnet. It shall have an RMS power handling of 50 Watt with a maximum power handling of 100 Watt and the frequency response (±3 dB) shall range from 70 Hz to 20 kHz. The sensitivity shall be 85 dB when measuring with an input signal of 1 Watt at a distance of 1 meter, while the maximum continuous sound pressure level shall be 102 dB. The nominal dispersion shall be a 160° horizontal and 140° vertical coverage pattern at -6dB (average 100 Hz - 10 kHz). The loudspeaker shall have an impedance of 8 Ohm and shall contain a passive built-in crossover network with crossover frequency of 3000 Hz, which is constructed of high-quality components. The speakers frame and basket shall be constructed as one entity in strong ABS with a black colour and a textured matt surface finishing. A 4-screw quick-fixing mechanism shall be provided to mount the speaker into a wall in a quick and simple way. The connectivies shall be performed using Gold-Con™ spring clamp connectors. To make the loudspeaker nearly invisible when mounted, the speaker shall have a white (RAL9003) grill with a very thin border of 1 mm which extrudes the ceiling surface by only 3.2 mm. This grill shall be constructed of steel which can be painted to make it blend in with any environment. The assembly and disassembly of the grill shall be very simple thanks to the neodymium magnets that hold it in place. The speaker shall have a width of 161,5 mm, a height of 236,5 mm and a depth of 74,1 mm and shall not exceed 1 kg. The speaker shall fit in a mounting hole of 139 mm x 214 mm and a build-in depth of 71 mm.
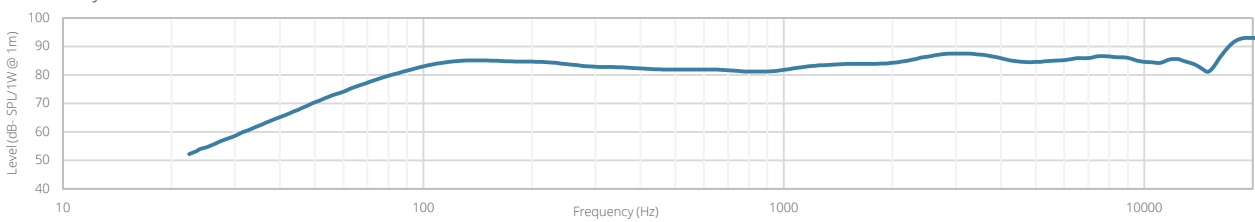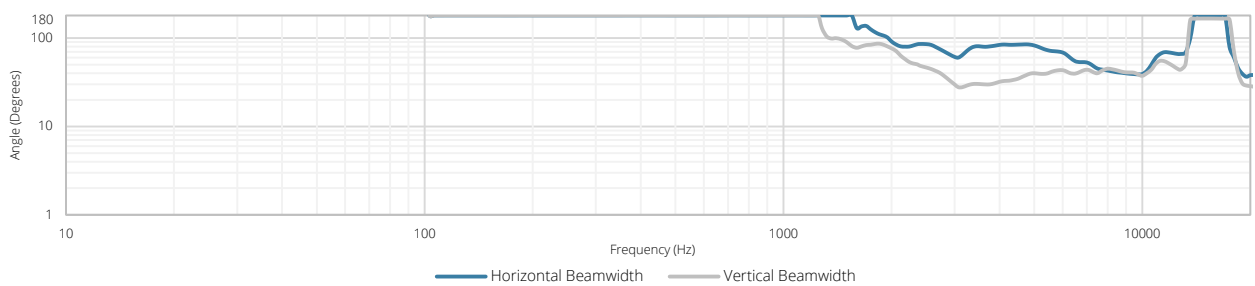
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# Acoustical data graphs:

## Horizontal Polars:



| 16 kHz | 8 kHz | 4 kHz |
| 2000 Hz | 1000 Hz | 500 Hz |
| 250 Hz | 125 Hz | 63 Hz |

## Vertical Polars:



| 16 kHz | 8 kHz | 4 kHz |
| 2000 Hz | 1000 Hz | 500 Hz |
| 250 Hz | 125 Hz | 63 Hz |
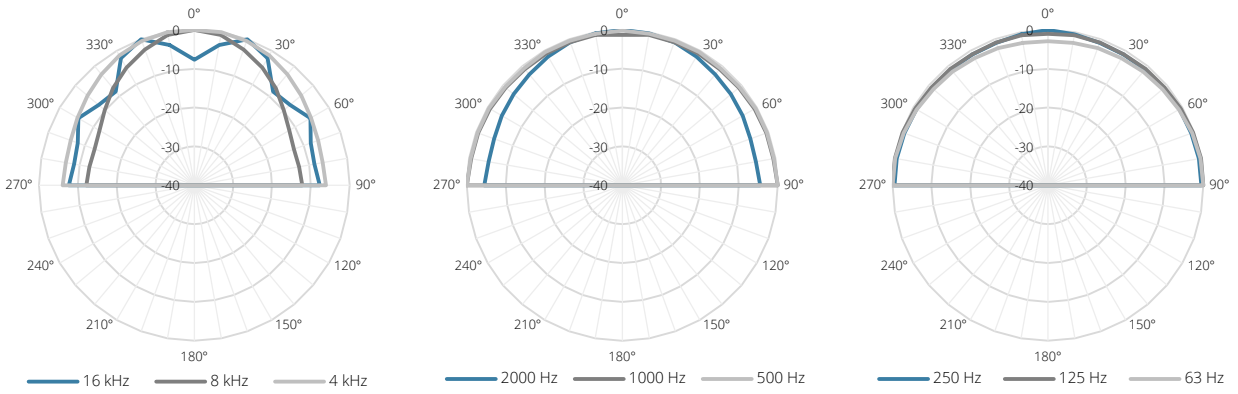
## Sensitivity:



## Beamwidth (-3dB):



Horizontal Beamwidth — Vertical Beamwidth

## Directivity index:

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236,5

161,5

210

70,6

74,1

135
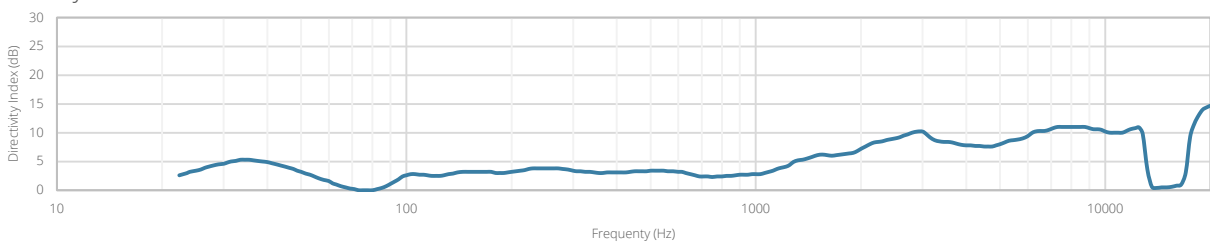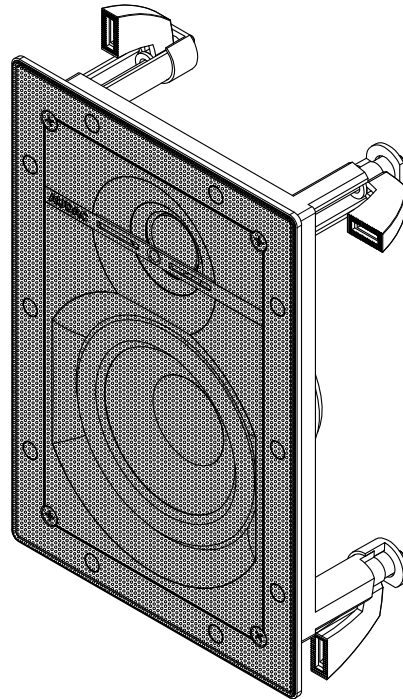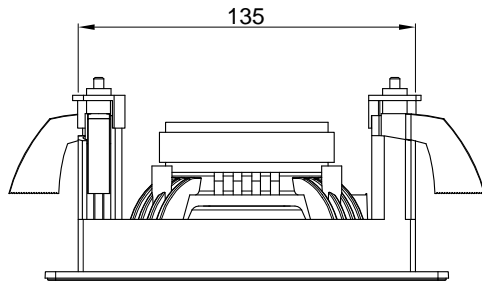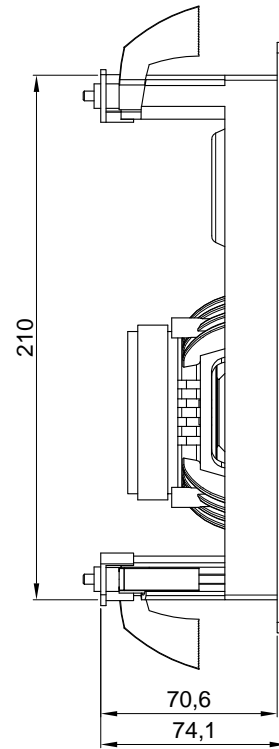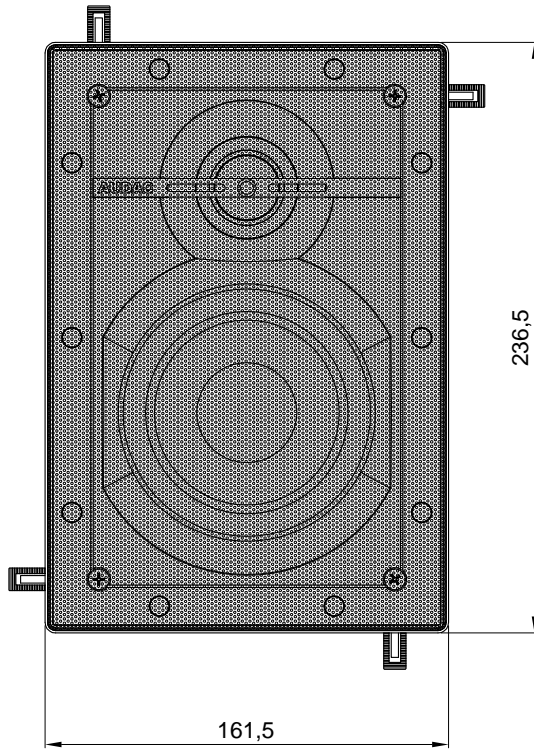
| ![AUDAC logo] | **MERO5** | **Product description:** 5" HIGH-END SLIM IN-WALL SPEAKER |
|---|---|---|
| | **Weight:** | **Outer dimensions:** (w x h x d) | **Unit height:** |
| | TBA | 161,5 x 236,5 x 74,1 | N/A |