



MicroMain35

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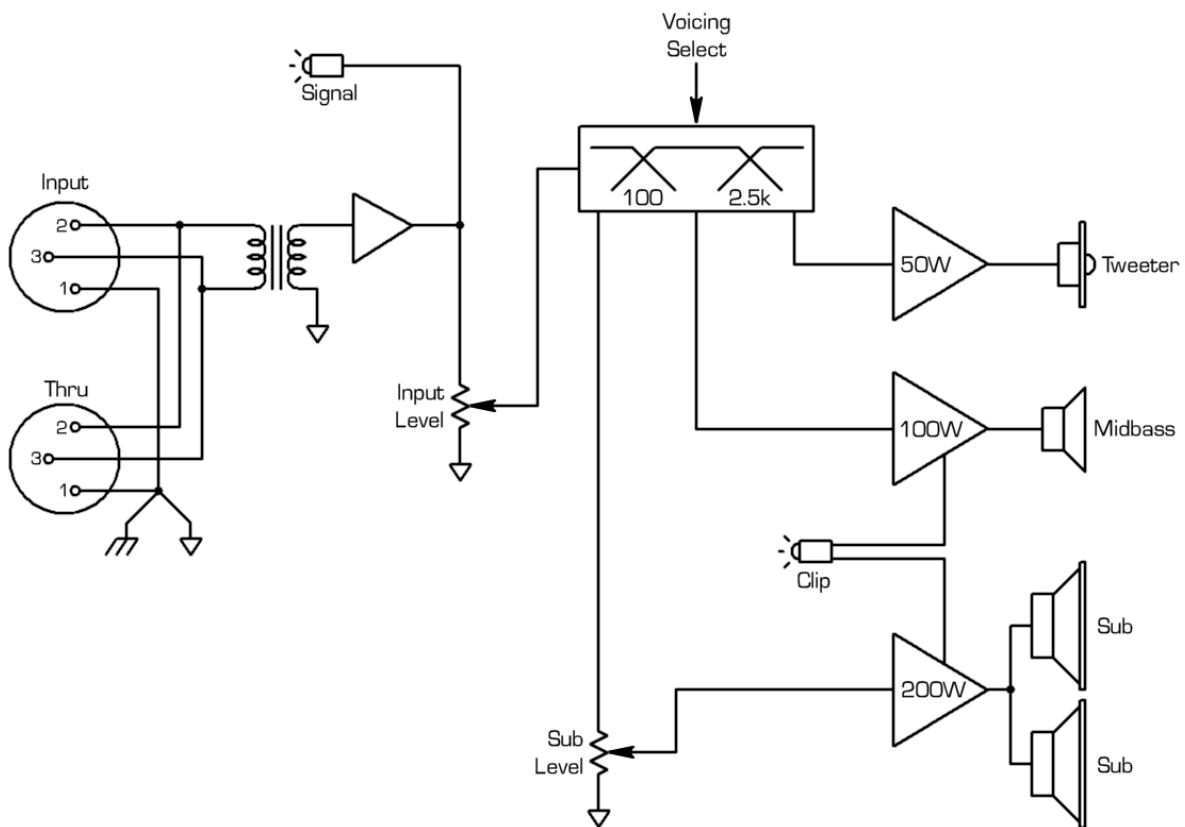
1. Connectors

AC Power Connector: Universal 115 VAC or 230 VAC input. Use only grounded IEC power cable.

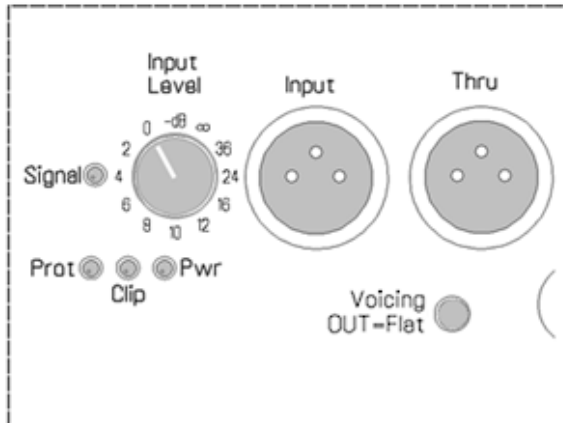
Input: Balanced XLR. Pin 1 tied to chassis ground. Pins 2 & 3 are fully floating differential. Pin 3 must be referenced to ground for single ended input.

Thru: Signal routed directly through from Input

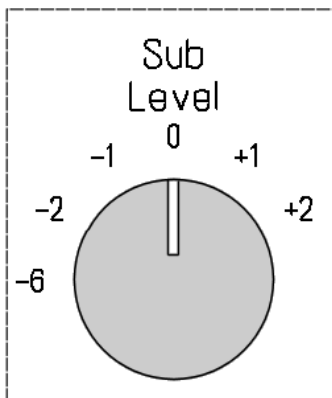
2. Signal Flow Diagram



3. Controls



Input Level: Input level attenuator
All MicroMains are reference matched to within ± 0.5 dB. The 0dB setting is preferred unless you are trying to match to other monitors.



Sub Level: Sub level precision stepped attenuator. Steps are in decibels.

Voicing: Crossover voicing selector.

OUT = Standard flat
IN = Forgiving

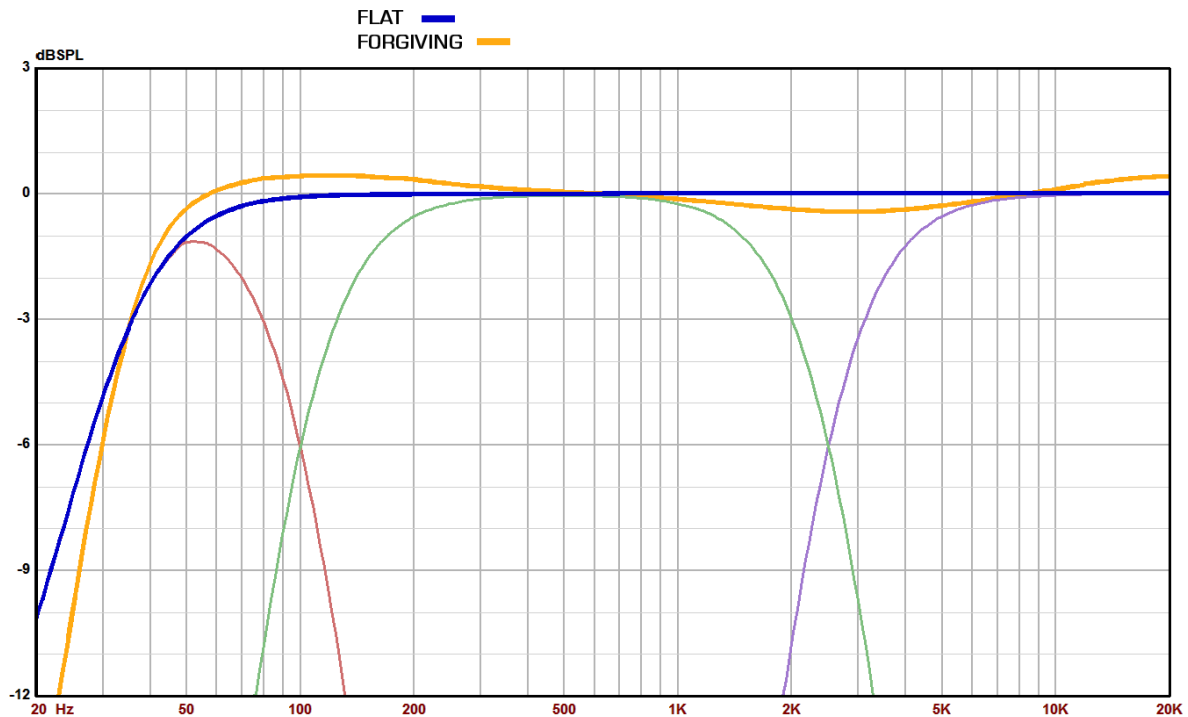
Changing Voicing

1. Power off speaker
2. Choose desired Voicing setting
3. Power on speaker

The Voicing change will not engage unless speaker in power cycled.

The Voicing selector is included at the request of some customers wanting an alternate voicing that is a little more "forgiving" or "hi-fi" than the standard flat response. I don't like DIY tone controls on monitors, but felt comfortable offering a second setting designed as a completely cohesive crossover alignment. The new voice involves small changes to the midbass/tweeter crossover, yielding a slightly recessed midrange and slightly brighter highs. Also, the bass response is altered to have less damping and steeper roll off. The result is a hybrid bass character somewhere between the fast, tight, articulate sound of a sealed cabinet and the slower, fatter sound of a ported speaker. Of course, this is achieved without the negative aspects of ports such as pipe organ resonances and poor cone control below cutoff. The Forgiving response deviates from the Flat response by no more than ± 0.5 dB across the entire pass band.

Flat versus Forgiving frequency response



4. LED Indicators

Pwr: Power indicator. Green light on front and rear panels.

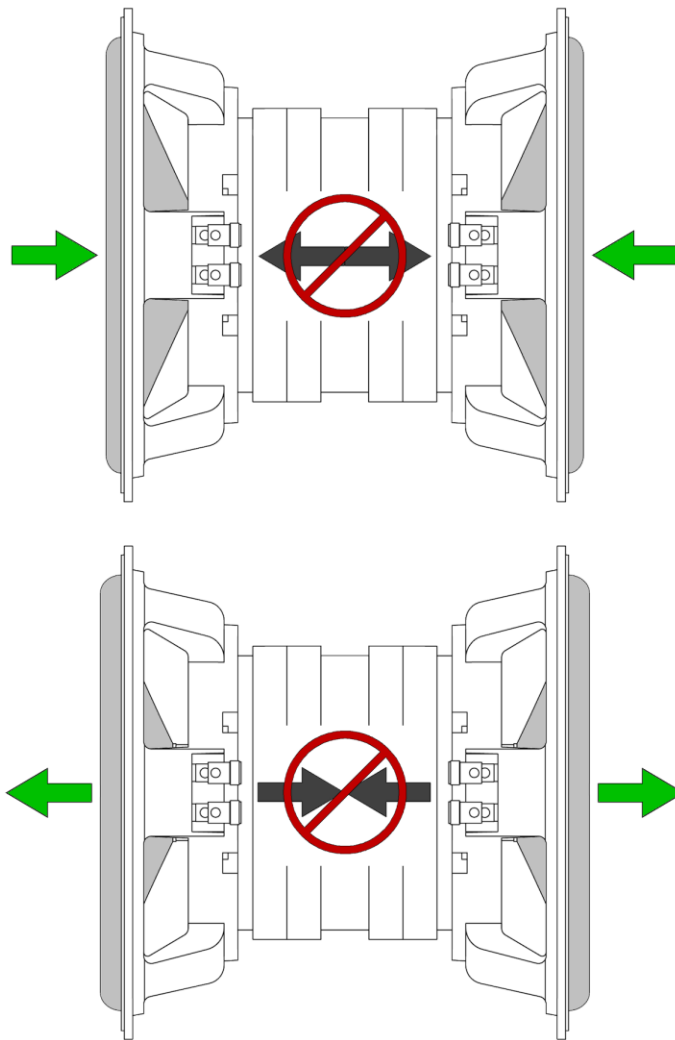
Signal: Signal indicator. Green light on rear panel indicates when audio signal is present at input.

Clip: Amplifier clipping indicator. Yellow light on rear panel. Green light on front panel flashes red.

Prot: Amplifier protection indicator. Red light on front and rear panels indicate if amplifier is overheated, or amplifier speaker outputs are shorted.

5. Force Cancellation

Cabinet vibrations are a significant source of distortion and coloration in most loudspeakers. The primary mechanism that generates cabinet vibrations is simple Newtonian action and reaction. As the driver motor (magnet and voice coil) forces the cone to move back and forth in order to generate sound, the cone exerts an equal and opposite force on the motor. This force is transmitted through the driver frame to the cabinet, vibrating the cabinet walls and coloring the sound emitted by the cone. This effect is most especially prevalent in the low frequency drivers where the cone motion is large and the forces are greatest.



The traditional method of reducing cabinet vibration is to build a massive and heavily braced cabinet. Truly effective solutions, however, turn out to be quite expensive. So many manufacturers simply choose to ignore the problem. While, the MicroMain35 does indeed have a massive cabinet, we also tackle the problem at its source by eliminating vibrations before they even begin. This is achieved through our innovative force cancellation design. The low frequency drivers are mounted on opposing sides of the cabinet and their motors are locked together. As the cones are driven in and out in opposite directions the forces exerted on the motors cancel one another. The vibrations never make it to the cabinet because they are not allowed to develop in the first place.

This layout has other advantages as well. Since the drivers are locked together, the motors and frames function as a massive internal metal cabinet bracing. And because the

wavelengths generated by the subwoofers are much larger than the speaker cabinet dimensions, the subs radiate as if they were a single point source located directly behind the tweeter and midbass. This helps the MM35 emit an extremely coherent wavefront across its entire frequency range.

6. Specifications

Description	3-way active monitor with integral subs
Input Impedance	50k Ohms
Frequency Response	35 Hz - 30 kHz (+/- 3 dB), 38 Hz - 20 kHz (+/- 1.5 dB)
Bass Response	3 dB @ 35 Hz Q = 0.707 Slope: 12 dB/octave
Cabinet	19 liters total internal volume, Sealed sub enclosure, Sealed midbass enclosure, Machined aluminum baffle plate.
Crossover Frequencies	100/2500 Hz
Tweeter	1" soft dome, Rear waveguide chamber Amplifier power: 50 W
Midbass	5" poly-paper cone, Rear waveguide chambers Amplifier power: 100 W
Dual Subwoofers	7" aluminum cones, +/- 9.5mm linear excursion Amplifier power: 200 W
Power Consumption	Idle: 20W Maximum: 375W
Weight	47 lbs each (21 kg)
Dimensions HxWxD	14.5 x 9.5 x 14.75 inches (368 x 241 x 375 mm)

7. Limited Warranty

This product is warranted against manufacturing defects for the period of **three (3) years**. The warranty period commences on the date of purchase from the authorized distributor /dealer. Your original purchase receipt, showing the date of purchase of the product is your proof of the date of purchase.

Any shipping or other cost such as customs incurred costs, etc., from or to outside the Continental U.S.A. is the customers' responsibility.

The warranty follows the product and is transferable to any subsequent owner(s) as long as a copy of the original purchase receipt from the authorized distributor /dealer can be provided.

This warranty does not cover any damage resulting from the following:

- misuse, incorrect installation, connection or handling
- faulty or unsuitable ancillary equipment
- repairs or modifications performed by unauthorized persons
- abuse, power surges, water, fire, or any other accident

Technical Support and Service

For warranty service and assistance, contact the original authorized distributor /dealer to arrange for return and/or repair of the product.