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HODER AUDIO



MC3X3

Monitor Speaker Controller User Manual

www.hoderaudio.com



MC 3X3

Stepper – type Passive
Monitoring Controller

Engineered for professional audio systems, it delivers high-fidelity balanced signal transmission and versatile signal management. Its passive architecture ensures signal purity, while the stepped potentiometer enables precise volume control.

Design Innovations

- **Passive Design:** Operates without external power, eliminating noise and distortion from power sources to maintain audio signal integrity.
- **Balanced I/O:** XLR balanced inputs and outputs suppress common-mode noise for reliable signal transfer.
- **Multi-Input Switching:** Supports three pairs of stereo balanced inputs, selectable via front-panel toggle switches.
- **Premium Stepped Potentiometer:** Features a 10k Ω stepped potentiometer for precise volume adjustment.
- **Independent Output Controls:** Each output pair includes: -20dB attenuation switch; Stereo/mono selector; Mute function.

! Important Operation Notes

For optimal performance, please read this manual carefully before use to understand proper operation. Retain the manual for future reference.

- **Balanced Signal Only:** The MC3X3 is designed exclusively for balanced signals. Use balanced XLR cables for all connections and ensure your input/output devices support balanced operation. Unbalanced signals may cause level mismatches, increased noise, or functional anomalies.
- **Passive Operation:** As a passive device, the MC3X3 does not amplify or actively process signals. Its primary functions are precise volume attenuation and signal routing.
- **Volume Control:** Adjust the main volume knob slowly to avoid sudden loud outputs.
- **-20dB Attenuation Switch:** Use this switch for quick volume reduction during critical monitoring (e.g., loud mixes).
- **Stereo/Mono Switch:** Regularly monitor in mono during mixing/mastering to ensure compatibility with mono playback systems.
- **Mute Function:** Activate the mute switch when changing inputs, speakers, or connections to protect your monitors from noise transients.
- **Cable Quality:** Use high-quality, shielded balanced XLR cables for optimal audio performance. Inferior cables may introduce noise or signal loss.
- **Placement:** Position on a stable, dry, well-ventilated surface (no objects on top); Keep away from heat sources (radiators, amplifiers); Avoid moisture/direct liquids.
- **Cleaning:** Wipe the surface with a dry cloth only. Do not use liquid cleaners.
- **Safety Precautions:** Risk of fire/electric shock: Do not open the enclosure or attempt repairs. Ensure all connected devices are properly grounded.
- Operate below 2000 meters altitude in non-tropical climates.
- Keep out of reach of children (not a toy).

Legal Disclaimer

Hoder Audio disclaims liability for any losses arising from this manual's content. Technical specifications and design are subject to change without notice

Functional Features



Input Selection:

A/B/C correspond to INPUT 1 / INPUT 2 / INPUT 3.

Source Switch: Selects the active stereo input source (only one selectable at a time)



Output Selection:

A/B/C correspond to OUTPUT 1 / OUTPUT 2 / OUTPUT 3.

Monitor Switch: Selects the active speaker output (only one selectable at a time)



Volume Control:

The central stepped potentiometer offers 24 levels of adjustment (15° per step, with a click feedback). Turn clockwise to increase the volume and counterclockwise to decrease it.



Each output (A/B/C) has dedicated control switches:

DIM Attenuation Switch

ST/MONO Toggle (Stereo/Mono)

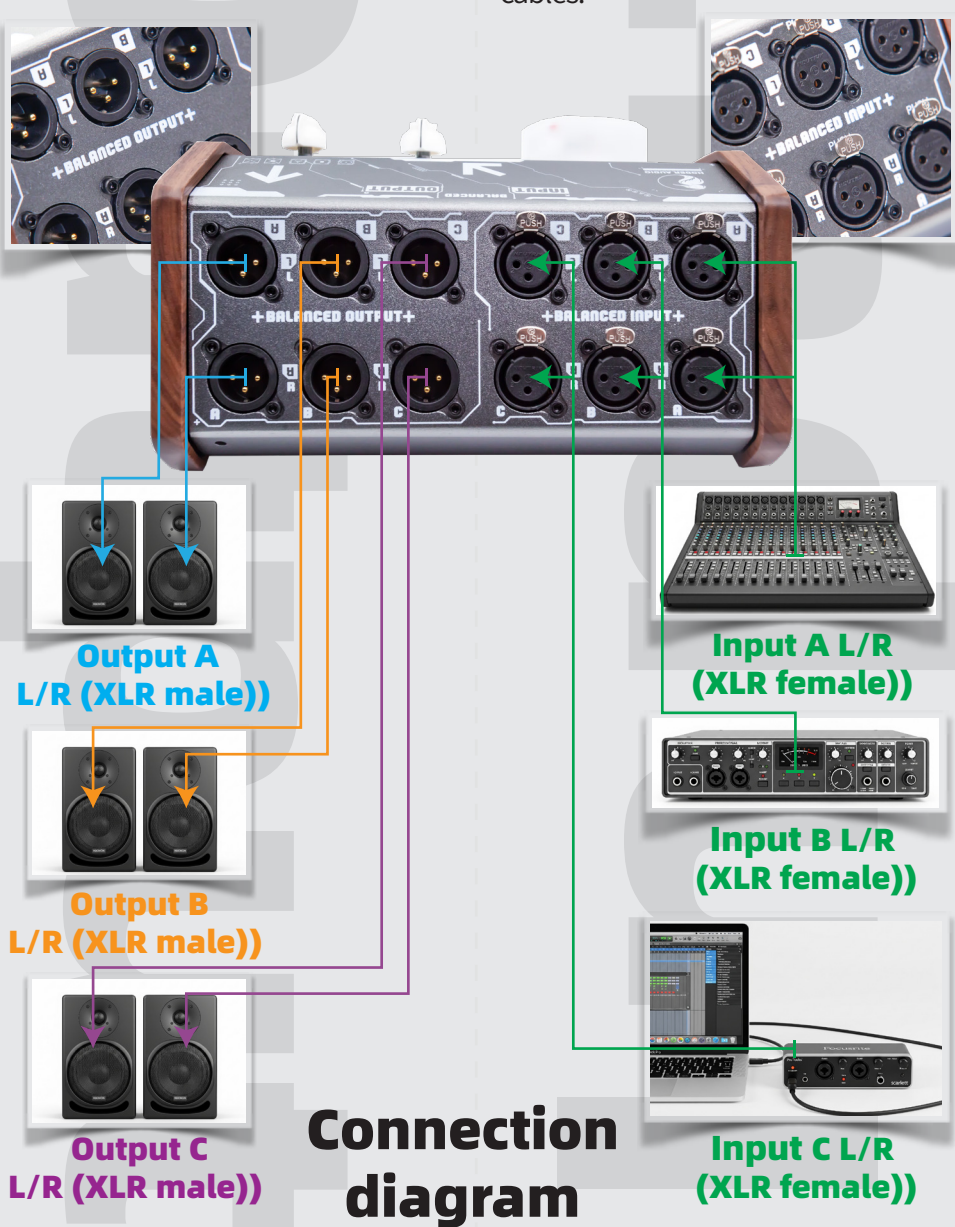
Mute Switch

Output Interfaces :

Connect monitor speakers or power amps via balanced XLR cables.

Input Interfaces :

Connect audio sources (audio interfaces, mixer outputs) via balanced XLR cables.



Connection Steps

- I. Input Connection: Use high-quality balanced XLR cables to connect audio sources (e.g., interfaces, mixer mains) to INPUT A/B/C on the rear panel.
- II. Speaker Connection: Connect monitors/amps to OUTPUT A/B/C using balanced XLR cables.
- III. Power-On Sequence: Power on audio sources and monitors after connecting all gear, with MC3X3 volume set to minimum to prevent transient damage.

Troubleshooting

▪ **No audio signal output:**

Verify all XLR connections are secure.

Confirm the correct input source and output speaker are selected.

Check that the main volume is not set to minimum.

Ensure the output mute is disengaged.

Test audio sources and monitors independently.

▪ **Distorted Sound or Noise:**

Ensure all connections are balanced with certified XLR cables.

Identify and remove nearby EMI sources.

Isolate devices one by one to locate the issue.

▪ **Volume Control Failure**

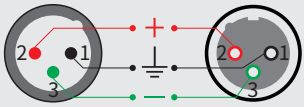
Check for debris obstructing the volume knob.

Confirm the correct output pair is selected.

If issues persist, contact your dealer or visit www.hoderaudio.com for support.

No user-serviceable components inside—refer repairs to qualified technicians.

Technical Specifications

Inputs:	3 stereo pairs (balanced)
Outputs:	3 stereo pairs (balanced)
Volume Control:	24-step stepped potentiometer (10 kΩ)
Output Controls:	DIM, ST/MONO, mute per output pair
Signal Type:	Balanced
Connectors:	XLR balanced I/O
Dimensions:	93mm*210mm*204mm
Weight:	1100g(2.43lb).
Required Cable Sequence:	Pin 1: Ground/Shield Pin 2: Positive/Hot Pin 3: Negative/Cold 



Thank you for choosing the MC3X3 Passive Volume Controller. We believe it will become an indispensable part of your audio workflow.