

CITRONIC®

Zoning Mixer

Z5M

953.019

User Manual



Features:

- Fully balanced signal path
- Stereo/mono operation
- Dual stereo line inputs
- Separate A & B source level per channel

Introduction:

Thank you for choosing this Citronic zoning mixer. The Z5M is a professional 1U mixer offering many features to give versatile control for up to 5 stereo output zones. In order to achieve the best results from this equipment and avoid damage through misuse, please read and follow these instructions and retain for future reference.

Warning:

To prevent the risk of fire or electric shock, do not expose any part of the unit to rain or moisture.

If liquids are spilled on the surface, stop using immediately, allow unit to dry out and have checked by qualified personnel before further use.

Avoid impact, extreme pressure or heavy vibration to the unit.

There are no user serviceable parts inside the Z5M – refer all servicing to qualified service personnel.

Safety

- Check that the supplied mains lead is in good condition and the supply voltage is correct.
- Ensure signal leads are of good condition and connected to appropriate inputs/outputs
- Do not allow any foreign particles to enter the unit through control or connector apertures

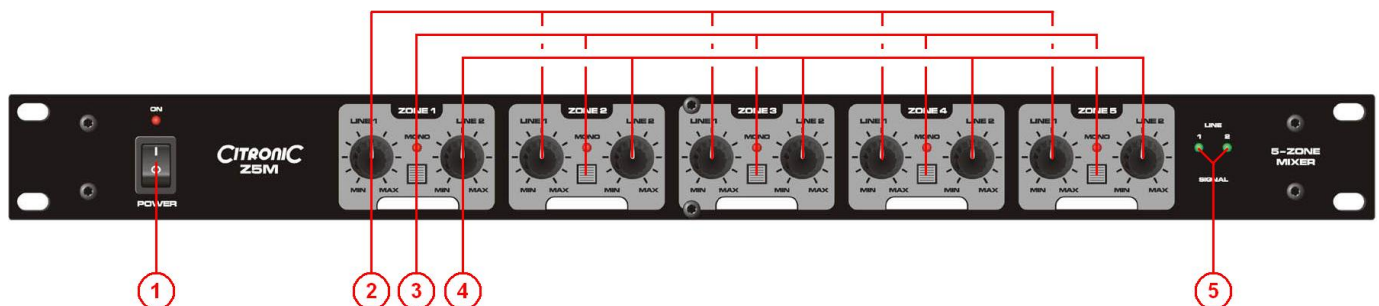
Placement

- Keep out of direct sunlight and away from heat sources.
- Keep away from damp or dusty environments.
- When rack-mounting, avoid placing heavy units above the unit and ensure all connectors and controls are accessible

Cleaning

- Use a soft cloth with a neutral detergent to clean the casing as required
- Use a soft brush to clear debris from the control surface
- Do not use strong solvents for cleaning the unit.

Front Panel



1. POWER switch and indicator
2. LINE 1 source volume controls per channel
3. MONO mode switch and indicator
4. LINE 2 source volume controls per channel
5. LINE 1 and 2 signal indicators

Rear and Side Panels



6. LINE 2 left & right inputs (balanced XLR)
7. LINE 1 left & right inputs (balanced XLR)
8. ZONES 1 to 5 left & right outputs (balanced XLR)
9. IEC mains inlet and fuse
10. Side panel voltage switch

Applications

The Z5M can be used for any multi-output setup and is ideally suited to controlling a multi-room zoning sound system with up to 5 stereo or mono zones. Individual zones can be selected as mono if speaker placement is not conducive to stereo imaging. 2 separate stereo inputs can be selected or blended at will for each zone, opening up the possibility of separate program material for specific zones. Prior to rack-mounting the unit, it is important to know what the mains supply voltage will be, since the voltage selector is situated on the side panel towards the rear of the unit.

Connection

All connections are via balanced XLR and operate at line level. Use good quality XLR signal leads to connect the source signals to LINE 1 and LINE 2 inputs. Each output should be connected to the respective amplifier or active speakers for the particular zone, again using good quality XLR signal leads. Connect mains using the supplied IEC lead.

Operation

Set amplifier and active speaker volume levels fully down

Set LINE 1 and LINE 2 levels for each zone to "MIN"

Select MONO for any zones that are better suited to mono output.

Press the POWER switch on and play the signals connected to LINE 1 and LINE 2 inputs.

The LINE SIGNAL LEDs should indicate the presence of each input signal.

Gradually increase and then decrease the volume for LINE1 and LINE 2 to each zone in turn to check the output.

Set the volumes and adjust for each source to each zone as required.

Before powering the Z5M down, turn down amplifier and active speaker volumes to avoid loud noises through the speakers.

SPECIFICATIONS	
Item	Value
Power supply	115/230Vac 50/60Hz - selectable (IEC)
Inputs	Line 1 L+R, Line 2 L+R, balanced XLRF
Outputs	Zone 1 to 5 L+R, balanced XLRM
Input impedance	40kohms
Output impedance	220ohms
Frequency response	20Hz - 25kHz, +0/-1dB
Signal to noise ratio	>100dB
THD	<0.005%
Dimensions	483 x 175 x 44mm
Weight	2.2kg

TROUBLESHOOTING	
No function and Power switch LED is not lit	Ensure mains voltage is correct (check selector) and connected properly
	Ensure front panel power switch and mains outlet switch are on
Power is on but no audio output	Check all XLR leads are OK and connected properly
	Check that LINE 1 and LINE 2 controls are not all turned fully down
	Check that inputs and outputs are connected the correct way around
Distorted output	Reduce LINE 1 and LINE 2 level controls, increasing amp level to compensate
	Reduce level of source signal(s) connected to LINE 1 and LINE 2 inputs
Output is very low level	Ensure correct line level is selected on amplifier/active speaker inputs
	Ensure input source is line level (0.775Vrms)
	Increase LINE 1 and/or LINE 2 level controls,
	Increase signal source level

Note: for further troubleshooting, refer equipment to qualified service personnel for testing