

405

FIVE ZONE DISTRIBUTION MIXER



The ART Model 405 Five Zone Distribution Mixer is designed to remotely adjust the volume of multiple amplifiers or powered speakers, either individually or in groups.

What Is A Zone Distribution Mixer?

The use of multiple power amplifiers each driving one or more speakers, or multiple speakers with built-in amplifiers is now a fact of life. And whether they are installed in a club, a hall, a restaurant, a church, an arena, an office, a recreational facility, or even if they are part of a portable PA with distributed speakers, systems like this have a unique potential. It is possible to remotely adjust the volume of every amplifier or powered speaker, either in groups or individually, with a zone distribution mixer like the Model 405. Basically the input of the Model 405 is connected to the PA mixer's line-level output (the Model 405 will accept the output of two mixers) and the power amps and/or powered speakers are connected to the Model 405s zone outputs. Now it is possible for the operator to adjust the volume of all the system components with just one set of controls.

Usage

- Connect the AC power cord to a grounded 120VAC socket.
- Using balanced XLR cables connect the balanced stereo output of the primary audio source (mixer) to the Model 405's LEFT & RIGHT INPUT SOURCE 1 connectors. Alternately a mono signal source may be connected to either the L or R input. However this may affect stereo operation (see Stereo/Mono button below). You may repeat the process with INPUT SOURCE 2 for an additional mixer or other audio source.
- Using balanced XLR cables connect the Model 405 OUTPUT ZONE connectors to the inputs of the appropriate power amplifiers and/or powered speakers.
- In most operating situations the MONO/STEREO button would be in the MONO position. There are two reasons for this. Firstly, stereo separation works well in the home where the listener can be situated more exactly between the speakers to hear each one equally. But away from that environment in a club, restaurant, office, rec hall, etc, listeners too often find themselves closer to one speaker than the other. Now stereo separation can cause a situation where they predominantly hear just part of the program e.g., guitar but no keyboard or vice-versa. With the system in Mono mode, all of the program music comes out all of the speakers. Secondly, if you connect a mono source to one of the Left or Right SOURCE INPUT connectors then switch one or more zones into STEREO, that source will only come out the amp/speakers connected to the Left or Right ZONE outputs. People not situated close to those speakers may not be able to hear that source at all.
- Adjust the SOURCE level controls to produce the desired volume in each area. If a CLIP light fires, reduce either that ZONE's level control, or the output of the signal source to prevent distortion.
- The SIGNAL light in each ZONE indicates the presence of input signal there.
- SOURCE INDICATOR 1 and 2 lights tell you which INPUT SOURCE is receiving signals.

405 SPECIFICATIONS	Input Impedance:	45.1k ohms
	Maximum Input Level:	+18 dBV line
	Output Level:	22 dBV
	Output Impedance:	125 ohms
	Maximum Gain:	+6 dB
	Signal-to-Noise:	89dB
	T.H.D.:	< 0.2%
	Dimensions:	19" x 6" x 1.75" (482mm x 152mm x 44.5mm)
	Weight:	6.3 lb. (2.9 kg)

405 FEATURES:

- ✓ LEFT and RIGHT sets of balanced SOURCE 1 and 2 Inputs can also accept a mono signal source.
- ✓ The SOURCE 1 and 2 INPUT channels are internally routed to the five ZONE channels.
- ✓ The five ZONE channels each feature SOURCE 1 and 2 level controls and balanced LEFT and RIGHT OUTPUT connectors.
- ✓ A STEREO/MONO selector button on each zone separates the left and right signals in STEREO mode or combines them in MONO mode so that all signals are present at both outputs.
- ✓ A MONO indicator LED on each zone channel indicates that mono has been selected.
- ✓ CLIP and SIGNAL LEDs on each zone channel indicate the onset of clipping distortion and signal activity.
- ✓ SOURCE 1 and 2 INDICATION LEDs tell you which source channel is in use.

APPLICATIONS:

- Live Sound Systems / PA
- Permanent/ Fixed Installations
- Church, Club, and Practice PA Systems
- DJ Sound Systems
- Monitor Systems
- Home and Project Recording Studios

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