

# 311

## STEREO 2-WAY CROSSOVER w/ SUBWOOFER OUT



The Model 311 Crossover may be used as a stereo 2-way crossover network, and has the addition of a subwoofer output for low-end frequency reinforcement. It employs 24dB/octave state-variable, fourth-order, Linkwitz-Riley filters that guarantee properly phased outputs at all frequencies, which is mandatory for the proper acoustic summing of common signals from adjacent drivers in the crossover region.

Each channel features independent high and low output level controls and a crossover frequency rotary control, which covers a wide range (250hz to 6khz). All three outputs have a 30 cycle low cut switch to eliminate low-end rumble. The subwoofer features an independent output level & rotary control for frequencies in the 50hz to 250hz range.



### SPECIFICATIONS

|                                  |                                                                                        |
|----------------------------------|----------------------------------------------------------------------------------------|
| Dimensions:                      | 5.5"d x 19.0"w x 1.75"h                                                                |
| Weight:                          | 4.85 lbs. (2.2 kg)                                                                     |
| Input Connections:               | XLR, 1/4" TRS, balanced                                                                |
| Output Connections:              | 1/4" TS, unbalanced                                                                    |
| Input Impedance:                 | 100K Ohms                                                                              |
| Output Impedance:                | 220 Ohms                                                                               |
| Maximum Input Level:             | +21dBu                                                                                 |
| Maximum Output Level:            | +21dBu                                                                                 |
| CMRR                             | >75dB (typical @ 1kHz)                                                                 |
| Frequency Response:              | 10Hz to 40kHz, +/-5dB                                                                  |
| Signal to Noise Ratio:           | >95dB, Ref: 0dBu                                                                       |
|                                  | 20Hz to 20kHz, unweighted                                                              |
| Dynamic Range:                   | >114dB                                                                                 |
| Total Harmonic Distortion (THD): | <0.01% (20Hz-20kHz, 0dBu)                                                              |
| Crossover Filter Type:           | Fourth-order Linkwitz-Riley                                                            |
|                                  | 24dB/octave, state-variable                                                            |
| Crossover Frequency Range:       | 250Hz to 6kHz                                                                          |
| Subwoofer Filter Type:           | Two-pole Butterworth, 12dB/octave                                                      |
| Subwoofer Frequency Range:       | 50Hz to 250Hz                                                                          |
| Power Requirements:              | USA: 110-125V AC / 50-60hz / 15W<br>Export units configured for country of destination |

### 311 FEATURES:

- ✓ Stereo 2-Way Crossover
- ✓ Low-End, Subwoofer Output
- ✓ Linkwitz-Riley filters
- ✓ Independent high and low output level controls
- ✓ Phase Switches
- ✓ XLR and 1/4" Input Connectors
- ✓ 1/4" Output Connections

### APPLICATIONS:

- ✓ Live Sound Systems/PA
- ✓ Permanent Installations
- ✓ Church, Club, Practice PA systems
- ✓ Bi-Amped Bass and Keyboard Rigs

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