



### All-in-One Audio Solution

Creating and controlling a school multi-purpose room sound system has now been simplified with Ashly's PEMA™ Series multi-channel power amplifier. PEMA has the features that let Systems Integrators replace a rack of amplifiers and signal processing equipment with a single two-rack unit.

The combination of a 4- or 8-channel amplifier, 8-in x 8-out sophisticated matrix mixing, and DSP signal processing brings a new level of simplicity. Select either 125W or 250W output units that are a perfect fit for your project based on ceiling height, loudspeaker sensitivity and ceiling speaker density.

This application uses the PEMA 4250.70pe, a 4 channel power amplifier with an 8 input mic/line matrix mixer and DSP on all inputs and outputs.

Processing blocks include Gain-Sharing Automatic Mixing, Automatic Feedback Suppression, Stereo-Summed-to-Mono, Ambient Noise Control, Equalization, High-, Low- and All-Pass Filters (HPF/LPF/APF), Delay, Compressor/Limiter, Gate, Ducking, Gain and Signal Generators (sinewave, white and pink noise). The full Matrix Mixer with assignable routing allows any input to drive any or all amplifier outputs. Presets can be used to store and retrieve system configurations.

Connected directly to the Pema4250 inputs are a microphone input and an auxiliary program input from each of the four meeting rooms. Input eq and compressors are set specifically for the individual inputs. Microphones have the bass rolled off and music has the bass "pumped up". The internal matrix sums inputs and routes them to the correct outputs. All outputs have dedicated eq and limiter protection applied. One power amplifier output of 250W / 70V is routed to each meeting room.

### Power Amplification w/ Mic Mixing and DSP

- **Eight Mic/Line Inputs**
  - EQ / Compressor
- **Input Mix Matrix**
  - EQ / Delay / Limiter
  - Feedback Suppressor
  - Ambient Noise Control
  - Ducking
- **Four Channel Power Amplifier**
  - EQ / Delay / Limiter
  - 250W / 70V per channel
  - Ethernet control is standard
  - Extensive protection circuitry
- **WR-5 Remote Control**
  - Select Room Combinations
  - Adjust input levels
- **Remote Power On/Off**
  - Disable power switch

### Intuitive Remote Control

A WR-5 wall remote in each meeting room provides user adjustments for microphone and music playback levels. Another WR-5 wall remote located in a secure location provides selection of room configuration (pre-set).

A WR-5 wall remote gives the operator limited level control of each input from floor.

This system can be supported with an iPad® by simply adding a WiFi router and downloading **Ashly Remote Free iPad App**. (Apple iPad not supplied by Ashly.)