

# SPECIFICATIONS



## MMA™ 8150T Nine-Channel Modular Mixer Amplifier

### SPECIFICATIONS

**Output Power:**  
150 watts RMS

**Power Bandwidth:**  
Direct: 20 - 20 K < 0.5% THD  
XFMR: 50 - 20 K < 0.5% THD

**Frequency Response:**  
Direct: 20 - 20 K  $\pm$  1.0 dB  
XFMR: 20 - 20 K  $\pm$  3 dB

**Total Harmonic Distortion:**  
0.02% at 1 kHz, 145 W RMS  
0.05% at 1 kHz, 150 W RMS

**Output Regulation:**  
Direct: < 0.5 dB  
XFMR: < 1.0 dB

**Signal To Noise Ratio:**  
Master Volume Min: 95 dB  
Master Volume Max: 77 dB  
Power Amp Only: 95 dB

**Tone Controls:**  
Bass:  $\pm$  10 dB @ 100 Hz  
Treble:  $\pm$  10 dB @ 10 kHz

**Contour:**  
+ 6 dB @ 100 Hz  
+ 6 dB @ 10 kHz

**Inputs:**  
Eight input ports, one dedicated  
program input, bridge in/out

**Input Sensitivity:**

Ports 1-8: 100 mV @ 10 K ohms  
PGM: 150 mV @ 10 K ohms  
Bridge In/Out: 100 mV/3.3 K ohms

**Preamp Out/Power Amp In**

1.0 V @ 600 ohms/1.0 V @ 15 K ohms

**Outputs:**

Direct Out: 4 ohms  
Fully Isolated XFMR: 8 ohms, 25 volts,  
70 volts (100 volt, 220/240 Export)

**Controls:**

9 input gain controls, 1 bass control, 1  
treble control, 1 contour switch, 1  
master gain control, 1 power switch, 1  
EQ defeat switch, 1 low-cut switch

**Indicators:**

Power LED (red), Activity LED (green),  
SPS™ Active LED (yellow)

**Protection:**

Internal current limiting, SPS™  
(speaker protection), output relays,  
1 line fuse (external), and 2 internal  
fuses

**Connectors:**

Preamp out/power amp in, PGM input,  
bridge in/out, RCA phono jacks  
Ports 1-8: Card edge connector  
Outputs: Screw terminals  
Mute: Screw terminals  
AC SJT, 3 prong

**Power Consumption:**

400 W 60 Hz, 120 V AC Domestic  
400 W 50/60 Hz, 220/230-240 V AC  
Export

**Dimensions**

3.5" H x 17" W x 15.5" D

**Weight & Color:**

32 lbs. Gray

**Other Features:**

Provisions for external master volume  
control  
Power output disconnected for 4  
seconds after power on  
Level-sensing muting at modular level

### FEATURES

- 9 channel mixer/power amplifier system
- 20 - 20 kHz frequency response
- Bridging input/output
- Contour switch (special equalization)
- Bass and treble controls
- Preamp output/power amp input patch capability
- Short circuit and thermal protection
- SPS™ protection circuitry
- External volume control
- Built-in low cut filter (switchable from rear panel)
- Plug-in module capability
- Output impedance variations: 4 ohms, 8 ohms, 25 V and 70 V (100 V Export)
- Rack-mountable or stand alone package (Rack brackets are optional)
- Two mute lines

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## DESCRIPTION

The Architectural Acoustics MMA™ 8150T is a high-quality mixer amplifier with nine separate input channels. Each channel provides a level control, and the master output section features bass and treble EQ controls (defeatable) and special equalization contour.

The MMA 8150T provides unmatched application flexibility with an array of optional plug-in modules, allowing the system to be tailor-made for specialized installations. Input modules may be loaded in as required for varying applications, number of input channels, special functions, etc.

The program input includes its own level control and is totally separate from the other eight channels. External signals may be patched in at this point as a system auxiliary input or the ninth input channel. Signals appearing at this input are routed directly to the master summing amplifier stage and are mixed with signals from the other eight channels. Systems requiring a single

input may use the program input, but the purchase of an input module is not necessary. The program level control regulates the level of this input, and the signal is routed through the system bass and treble controls.

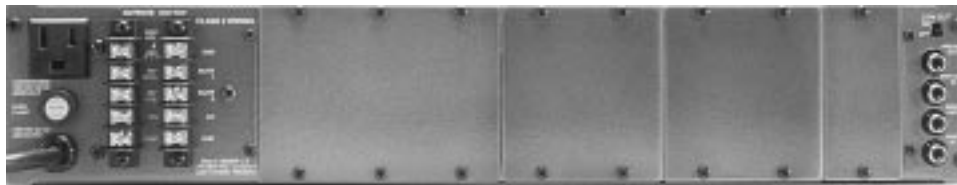
The power section delivers 150 watts and includes built-in SPS™ protection, which allows the MMA 8150T to produce full power capability without audible power amp clipping. A broad load impedance range is provided, and 25 and 70 volt fully isolated line outputs are standard equipment. The MMA 8150T is packaged as a stand-alone unit, but will also rack-mount into a standard 19" rack with an optional rack-mount kit.

## ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The mixer amplifier shall have eight modular input channels and one dedicated program input. The master section shall include one master volume

level control, two EQ controls providing 10 dB of boost or cut at 100 Hz and 10 kHz, a "contour" switch providing 6 dB of boost at 100 Hz and 6 dB of boost at 10 kHz, and a green status LED. Internal muting shall be accomplished at the modular level by means of two dedicated mute lines. External muting shall be accomplished via screw terminals on the back panel. Provision for an external master volume control shall be made through barrier strip connections on the back panel.

The unit shall be packaged in a rugged metal chassis 17" wide by 3.5" high by 15.5" deep. The unit shall operate from 120 volts AC, 60 Hz power. The internal amplifier shall be capable of delivering 150 watts RMS into 4 ohms and 8 ohms, as well as providing 25 volt and 70 volt line outputs. The unit shall be capable of delivering rated power from 20 Hz to 20 kHz  $\pm 1$  dB into 4 ohms at its direct output at less than 0.5% distortion with system hum and noise at least 77 dB below rated output. The unit shall be a Peavey Architectural Acoustics Division model MMA™ 8150T.



## LIMITED WARRANTY

Peavey Electronics Corporation warrants to the original purchaser of this new Architectural Acoustics product that it is free from defects in material and workmanship. If within one (1) year from date of purchase a properly installed product proves to be defective and Peavey is notified, Peavey will repair or replace it at no charge. (Note: Batteries and patch cords not covered.) "Original purchaser" means the customer for whom the product is originally installed.

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