

# S P E C I F I C A T I O N S



## Automix™ 4

### Automatic Microphone Audio Mixer

#### DESCRIPTION:

The Automix 4 is a professional automatic microphone audio mixer intended for fixed installation applications. This single rack-mount package is designed to provide high quality audio performance and easy-to-use controls. Engineered from the ground up, with the commercial sound systems contractor in mind, the Automix 4 includes removable screw connectors for easy installation and cost-effective servicing, as well as limited front panel user control.

The Automix 4 provides high quality audio operation, a simple interface and an easy-to-install package. For hands-free operation in new and existing sound systems, the Automix 4 makes sound system operation easy and reliable.

When using multiple microphones, gain control becomes essential. As additional mics are turned on, the levels of other active mics must be reduced to prevent feedback. The Automix 4 gain computer continuously senses the signal from each mic and quickly distributes the available gain among the channels

in use so that you won't miss a single word. Using Peavey's patented (US Patent number 5,652,800) Priority Circuitry, the Automix 4 eliminates the irritating comb filtering that often occurs when a person speaking into a wireless lapel mic moves close to an active podium mic. With the addition of the Automix 4's ability to link multiple units, this unit provides even more flexibility for a wide range of applications.

#### FEATURES:

- Patented Priority Control circuitry
- Single rack space package
- Four microphone inputs
- LED clip status indicator on each channel
- 48 Volt phantom power on each input (switchable on channels 1 & 2)
- Recessed gain control for each Channel
- Channels 1 & 2 each have priority assign control
- Channels 1 & 2 each have front panel mute button
- Front panel master level meter (three-segment LED)
- Line level inserts on each channel
- Insert enable/bypass switch on each channel

- Gain management computer logic for seamless automatic operation
- Audio and control bus linking
- Rear panel master/slave linking mode switch
- Master balanced output
- Mic or line level master output with switch
- Unbalanced aux out
- Removable "euro" connectors for all audio connections
- Rear panel power switch
- Removable IEC power cable

#### ARCHITECTURAL AND ENGINEERING SPECIFICATIONS:

The automatic microphone mixer shall have four electronically balanced, low noise microphone/line inputs. Each input shall have its own gain control. Input 1 and 2 shall each have the patented\* priority Circuit with a priority assign and individual front panel mute controls. Each channel shall have individual line level inserts with enable/bypass switch. forty-eight Volt phantom power



shall be available on all channels and be switched on inputs 1 and 2. There shall be included a security cover protecting the main controls on the front panel with marking zones for each input. The master section shall be equipped with gain management computer logic for seamless operation. There shall be a balanced mic or line master output with switch. In addition, there is a master, unbalanced auxiliary output.

There is a master/slave linking connection and switch on the back panel for connection to

additional Automix 4 units, and also the Automix 2, as well as the SMR™ 821 mixer. All audio connections shall be made with removable "euro" type connectors.

The mixer shall have a frequency response of 75 Hz to 20 kHz +/- 1 dB. It shall have an EIN of -128 dBu and the total harmonic distortion shall be less than 0.1% at +4 dBu (22 Hz to 22 kHz BPF). The maximum line output level shall be +21 dBu (hi-Z load), +18 dBu (600 load).

The unit shall be packaged in a rugged metal chassis 19" wide

by 1.75" high by 9.38" deep. The unit shall operate from 120 VAC, 60 Hz domestic and from 230 VAC, 50/60 Hz, export. The unit shall be a Peavey Architectural Acoustic Division model Automix 4.

### THREE + TWO YEAR LIMITED WARRANTY

**NOTE:** For details, refer to the warranty statement. Copies of this statement may be obtained by contacting Peavey Electronics Corporation, P.O. Box 2898, Meridian, Mississippi 39301-2898.

\*US Patent no. 5,652,800

## SPECIFICATIONS

### Test Conditions:

120 Vrms, 60 Hz line voltage maintained throughout testing.  
Reference: 0 dBu = 0.775 Vrms.

### INPUT SPECIFICATIONS

#### EIN:

-128 dBu ( $R_s = 150$  Ohms), typical

#### Preamp Gain Range:

10 dB - 65 dB (MIC inputs)  
-13 dB - 44 dB (LINE inputs)

#### Input Impedance:

2K Ohms (MIC inputs)  
>10K Ohms (LINE inputs)  
>10K Ohms (INSERT inputs)

#### Priority (channels 1 and 2):

0 dB to 9 dB

#### Phantom Power:

+48 Volts

#### Input sensitivity:

MIC inputs	-61 dBu
LINE inputs	-40 dBu
INSERT inputs	+4 dBu

### Maximum Input Level:

MIC inputs	+12 dBu
LINE inputs	+30 dBu
INSERT inputs	+21 dBu

### Common Mode Rejection:

>70 dB 20 Hz - 20 kHz

### OUTPUT SPECIFICATIONS

#### Frequency Response:

75 Hz (-3 dB) to 20 kHz (-1 dB)  
(at +4 dBu; ref: 1 kHz; 75 Hz HPF)

#### THD:

<0.1% at +4 dBu  
(22 Hz - 30 kHz BPF)

#### Signal/Noise:

( $R_s = 150$  Ohms; 30 kHz LPF)  
>85 dB (all controls fully CCW)

#### Output Impedance:

<200 Ohms

### Nominal Output Level:

LINE level output	+4 dBu
MIC level output	-26 dBu
INSERT outputs	+4 dBu

### Maximum Output Level:

LINE level output	+21 dBu (hi-Z load)
	+18 dBu (600 load)
MIC level output	-9 dBu (hi-Z load)
	-12 dBu (600 load)
INSERT outputs	+21 dBu (hi-Z load)

### GENERAL SPECIFICATIONS

#### Channel Clip LED:

Red LED lights 2 dB before clipping  
Also lights to indicate mute on channel 1 and 2 inputs

#### Output Level Indicators:

Red LED lights 2 dB before clipping  
Yellow LED lights at +4 dBu  
Green LED lights at -16 dBu

#### Power Requirements:

120 Vrms, 60 Hz	Domestic
230 Vrms, 50/60 Hz	Export
15 Watts nominal	

#### Dimensions:

1.75" x 19" x 9.38"  
(45 mm x 483 mm x 238 mm)

#### Weight:

7.5 lbs  
3.4 kg



Features and specifications subject to change without notice.

Peavey Electronics Corporation • 711 A Street • Meridian • MS • 39301  
(601) 483-5376 • FAX (601) 486-1678 • <http://aa.peavey.com>



80304715