SPECIFICATIONS

Frequency Response
Line Inputs: +0 dB at 30 Hz to 1.2 kHz at 60 Hz
RCA Inputs and Outputs: 10 Hz to 20 kHz

Input Impedance
RCA Input to 10 dB: 10 k ohms balanced
Priority Line: 20 k ohms balanced
Bus Input: 500 ohms unbalanced

Maximum Input Level
RCA Input to 10 dB: +3 dB unbalanced
Priority Mic: 6 dB balanced
Priority Line: +3 dB unbalanced
Bus Input: +3 dB unbalanced

Output Impedance
RCA Outputs: 100 ohms unbalanced
XLR Outputs: 500 ohms balanced

Maximum Output Level
RCA Outputs: +3 dB
XLR Outputs: +3 dB

Ducking

System Tone Control Frequency Response

SYSTEM TONE CONTROL FREQUENCY RESPONSE

30.0 dB to 20.0 dB
20.0 dB to 10.0 dB
10.0 dB to 0.0 dB
0.0 dB to -10.0 dB
-10.0 dB to -20.0 dB
-20.0 dB to -30.0 dB
-30.0 dB to -40.0 dB

OPERATIONS MANUAL

Thank you for selecting the MPM1V and the MPM2 music and paging mixers. These high-quality, versatile mixers can be used in custom applications to provide single, easy-control of multiple audio and video sources. They connect to stereo and mono audio outputs and remote master volume inputs allowing VCR, DVD, cable and satellite box video tuners, VCR and DVD players, etc.; two priority inputs which allow paging and automatic music override for announcements or jingles, and four line terminals for enhancing the overall sound of the system. The MPM1V has three complete video inputs, allowing VCR, DVD, Cable, and satellite box video switching simultaneously with the stereo audio. Both units have stereo and mono audio outputs and remote master volume control.

Housed in a single rack space unit with removable rack ears and designed for continuous operation, the MPM1V includes all the features necessary to operate most single zone sound systems in schools, restaurants, homes, offices, and any other place where video and/or priority inputs are required.

INTRODUCTION

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UNPACKING

US Audio has made every effort to ensure that your equipment is received in the same perfect condition it was in when it left the factory. Please inspect your product for any signs of damage during shipping and report them to your dealer or that you saved your packaging material for the unlikely event that you need to return your equipment for service.

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**THEORY OF OPERATION**

This equipment includes a number of RCA input jacks, each with a separate audio input control and circuitry. The RCA inputs are used for music or program sources. They can be set at a predetermined level and then conveniently switched in and out to mixers. There is no volume control for this input. Level can be adjusted unit. Inputs 1-3 and the buss input (stereo) are summed and passed through a series of Voltage Controlled Amplifiers (VCAs) and summing amplifiers. The audio signal from the priority inputs still goes with ducking for paging and the left channel for audio program only priority status, so they will be active as long as there is no audio signal. VCAs turn off channels 1-3 and the buss input. The priority line audio signal is then injected into the audio path.

When the priority mic receives audio at its input, the priority mic is in use. The normal signal and the page mic are mixed together with no change in the normal signal level. At -20 the normal signal is 45 dB, allowing level adjustment of most microphones. The audio signal is provided with a range of -40 to +45 dB, allowing level adjustment of most microphones. The audio signal is provided with a range of -40 to +45 dB, allowing level adjustment of most microphones. The audio signal is provided with a range of -40 to +45 dB, allowing level adjustment of most microphones. The audio signal is provided with a range of -40 to +45 dB, allowing level adjustment of most microphones.

The priority mic input is a female XLR connector which accepts balanced mic level signals and provides 18 volts peak power for recording microphones. The audio signal is provided with a range of -40 to +45 dB, allowing level adjustment of most microphones. The audio signal is provided with a range of -40 to +45 dB, allowing level adjustment of most microphones. The audio signal is provided with a range of -40 to +45 dB, allowing level adjustment of most microphones. The audio signal is provided with a range of -40 to +45 dB, allowing level adjustment of most microphones.

**CONTROLS AND FUNCTIONS**

1. **INPUT VOLUME CONTROLS**: Varies the amount of the priority line level that is mixed with the normal signal.救命 edited as long as there is no audio signal.

2. **PRIORITY LINE VOLUME CONTROL**: Varies the priority line level that is mixed with the normal signal when the page mic is in use. The normal signal and the page mic are mixed together with no change in the normal signal level. At -20 the normal signal is 45 dB, allowing level adjustment of most microphones. The audio signal is provided with a range of -40 to +45 dB, allowing level adjustment of most microphones. The audio signal is provided with a range of -40 to +45 dB, allowing level adjustment of most microphones. The audio signal is provided with a range of -40 to +45 dB, allowing level adjustment of most microphones.

3. **BUSS INPUT JACKS**: Are stereo RCA unbalanced inputs which feed signal directly on the audio sum buss of the mixer. The priority circuits and the Master volume control are input.

4. **UNBALANCED LINE OUTPUT JACKS**: Are stereo jacks that always provide a stereo output signal regardless of the position of the stereo mono switch.

5. **STEREO MONO OUTPUT SELECT SWITCH**: Selects the output signal to the sound system amplifiers. Signal is line level and can be set to either stereo or mono.

6. **REMOTE LEVEL CONNECTION**: To control the overall level of the MPM1 from a remote location. V+ is supply voltage to the full counter clockwise terminal. VC is control voltage and G is ground (G). Whirlwind includes the remote volume control, but is independent of the operation of the paging mic. With the mic input connected, the remote volume control is in use.

7. **SYSTEM TONE CONTROLS**: Provides a low shelf, a mid shelf and a high shelf filter. The three normal program inputs and the buss input have no tone controls. The three normal program inputs and the buss input have no tone controls. The three normal program inputs and the buss input have no tone controls. The three normal program inputs and the buss input have no tone controls.

8. **INPUT SELECT SWITCHES**: Connects the input to the master outputs through the switches. The LOWN and HI RN are base and treble shelving. These LO MID and HI RN are passive filters set at 150 and 1 kHz and kHz.

9. **POWER SWITCH**: Turns on the MPM1 power and illuminates the LED power indicator.

10. **PAGING MIC INPUT**: Is a female XLR connector which accepts balanced mic level signals and feeds them to the priority audio circuits and to the priority override circuit. 80 volt power is automatically supplied for condenser microphones.

11. **BUSS INPUT JACKS**: Are stereo RCA unbalanced inputs which insert signal directly on the audio sum buss of the mixer. The priority circuits and the Master volume control.

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