**INTRODUCTION**

Thank you for selecting the U.S. Audio Mix 16 line mixer. This mixer was designed to meet the needs of broadcast production, as well as other professional audio applications. To ensure proper setup and use of the product, we recommend that you save the packaging material for use in the event that you need to return your equipment for repairs.

**THEORY OF OPERATION**

The U.S. Audio Mix 16 is a stereo line level mixer with 1/4" tip-ring-sleeve input jacks. Each channel is post fader and controlled by a gain control with a range of -60 to +18 dBm. This allows for the addition of gain, with a professional quality signal to noise ratio and full frequency response. The Mix 16 can provide up to 36 dB of attenuation for stereo applications. Gain levels are shown in dBm

**CONTROLS AND FUNCTIONS**

1. **INPUT LEVEL CONTROL**
   - Vari一般 the amount of signal from the input jacks that enters the channel strip. This is done through the use of a pre-amplifier circuit. Each channel has a pre-set gain of 0 dBm, allowing the user to add or subtract gain as needed. This helps to achieve the desired level of signal for each input.

2. **MASTER VOLUME CONTROL**
   - Controls the overall level of the mix. The channel strips are summed together here before being delivered to the headphone circuit. This control has a range of -60 to +18 dBm.

3. **HEADPHONE VOLUME CONTROL**
   - Sets the volume of the headphone circuit. This circuit monitors the summing buss and will vary the level of the headphone output based on the mix. This control has a range of -60 to +18 dBm.

4. **POWER LED**
   - Indicates whether the device is powered on. It is located on the front panel of the Mix 16.

5. **HEADPHONE JACK**
   - Connects to external headphones. This jack is unbalanced and driven by a separate circuit. The 60 dBm of attenuation turns off the headphone circuit for proper operation.

**SPECIFICATIONS**

- **Frequency Response**
  - +20 dBm to -20 dBm
- **Input Impedance**
  - 10 kΩ @ 0 dBm balanced
- **Maximum Input Level**
  - +22 dBm
- **Output Impedance**
  - 8 Ω
- **Maximum Output Level**
  - +21 dBm
- **RMS Time**
  - 0.6 s
- **Frequency Separation**
  - -60 dB
- **Channel Separation**
  - 41 dB
- **All Channels Using Gain**
  - 10 dB
- **Bandwidth**
  - 3%
- **Rack Space Configured**
  - 120 VAC 60 Hz or 230 VAC 50 Hz
  - 120 VAC 60 Hz or 230 VAC 50 Hz

**UNPACKING**

U.S. Audio has made every effort to ensure that your equipment is received in the same perfect condition it was when it left the factory. Please inspect your product for any signs of damage during shipping and report them to your dealer so that a claim can be made to the shipper. The recommended place for use in the event that you need to return your equipment for repairs.

**WARNING**

ATTENTION

This equipment is not intended for use in any type of rains or moisture. ELECTRIC SHOCK DO NOT EXPOSE THIS EQUIPMENT TO ANY TYPE OF RAIN OR MOISTURE. TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE. TO PREVENT ELECTRIC SHOCK DO NOT OPEN.

**SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**

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