# INSTALLATION MANUAL AND OPERATING INSTRUCTIONS

## DMS10X - 10 Channel Preamp Mixer
**DMS120P - 120 Watt RMS**
**DMS160P - 160 Watt RMS**
**DMS260P - 260 Watt RMS**
**DMS360P - 360 Watt RMS**

**IMPORTANT NOTE:** THIS OPERATING MANUAL IS PROVIDED AS AN INSTALLATION AND AS AN OPERATING AID. PASO SOUND PRODUCTS, INC. DOES NOT ASSUME ANY RESPONSIBILITY AS TO ITS ACCURACY AND SHALL NOT BE LIABLE IN TORT OR CONTRACT FOR ANY DIRECT CONSEQUENTIAL OR INCIDENTAL LOSS OR DAMAGE ARISING FROM THE INSTALLATION, USE OR INABILITY TO USE THIS PRODUCT.

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>POWER OUTPUT:</th>
<th>DMS120P</th>
<th>120 Watt RMS</th>
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<tr>
<td></td>
<td>DMS160P</td>
<td>160 Watt RMS</td>
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<td>DMS260P</td>
<td>260 Watt RMS</td>
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<td>DMS360P</td>
<td>360 Watt RMS</td>
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<tr>
<th>FREQUENCY RESPONSE:</th>
<th>20 Hz - 30 kHz</th>
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<td>DISTORTION:</td>
<td>&lt; 0.01 % THD at 1 kHz</td>
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**INPUTS**
- INPUT 1 - MIC/LINE with RVC and UNMUTE
- INPUT 2 - MIC/LINE with RVC and UNMUTE
- INPUT 3 - MIC/LINE with RVC and UNMUTE
- INPUT 4 - MIC/LINE with RVC and LOUDFILT Filter
- INPUT 5 - MIC/PHONE with RVC and LOUDFILT Filter
- INPUT 6 - 8: MIC/AUX 1 with RVC and LOUDFILT Filter
- INPUT 7 - MIC/AUX 2 with RVC
- INPUT 8 - MIC/AUX 3 with RVC
- INPUT 9 - MIC/AUX 4 with RVC
- INPUT 10 - MIC/AUX 4 with Auto Level Control/COMPRESSOR

**OUTPUTS**
- OUTPUT 1 - Line Out: 300 ohm Balanced
- OUTPUT 2 - Direct Out: 48 Vdc, 1500 mA

**Sensitivity & Gain**
- Sensitivity: 1.5 mV - 250 ohm balanced
- Gain: 50 dB

**Protection**
- Power Surge, Overload and Thermal Protection

**DMS120P**
- 800 ohm Transformer Balanced

**DMS160P**
- 250 ohm Balanced

**DMS260P**
- 1500 ohm Balanced

**DMS360P**
- 3000 ohm Balanced

**AC ACCESSORY OUTLET:**
- 1 outlet for power supply and microphone or line level input

**BATTERY:**
- Rechargeable

**INTEGRAL FEATURES:**
- Preamp/Direct Out
- 5-band EQ
- Auto Mute
- Remote Control
- Digital Input
- Analog Input
- Transformer Balanced
- Transformer De-Esser
- Transformer Automatic Gain Control
- Transformer Automatic On/Off

**CONTROL PANEL:**
- Front Panel: Inputs 1 - 8 Volume, Bass, Treble, Tone Controls
- Rear Panel: Inputs 1 - 8 Attenuator, VDX1

**DIMENSIONS:**
- 17” W x 12” D x 4” H

**NET WEIGHT:**
- 14.8 lbs (6.7 Kg)

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SAFETY PRECAUTIONS

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT SAFETY INSTRUCTIONS

BEFORE OPERATING THE AMPLIFIER, BE SURE YOU FULLY UNDERSTAND ALL INSTRUCTIONS AND FEATURES OF THE UNIT.

1) Read these instructions carefully.
2) Keep these instructions.
3) Heed all Warnings.
4) Follow all instructions.
5) DO NOT use this apparatus near water.
6) Clean ONLY with a damp cloth.
7) DO NOT block any of the ventilation openings. Install in accordance with the instructions provided.
8) DO NOT install near any heat sources such as radiators, stoves, or other apparatus (including amplifiers) that produce heat.
9) DO NOT mount amplifier into a container or a closed unventilated closet while operating.
10) DO NOT place any object or accessory equipment such as Tuners, Mixers, Cassette Decks, etc. on top of the amplifier. Obstructing or closing the cabinet ventilation openings may cause overheating.
11) DO NOT defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade and or the third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
12) Use only the attachments and accessories specified in this manual.
13) If a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
14) Unplug this apparatus during lighting storms or when unused for long periods of time.
15) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
16) DO NOT replace fuses unless power cord is removed from the AC wall outlet.
17) DO NOT install accessories unless the power cord is removed from the AC wall outlet.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

RACK MOUNTING INSTRUCTIONS

A) Procure the optional accessory Rack Mount Kit Model 27/3501.
B) Turn amplifier up side down and remove the four rubber feet by unscrewing the four holding screws.
C) Remove the bottom front screws on each side of the amplifier holding the amplifier cover.
**INPUTS 4 - 5 BLOCK DIAGRAM**

**INPUTS 4 - 5 DIP SWITCH PROGRAMMING**

**ANY INPUT VOX AND MUTING FUNCTION**

**INPUTS 4 - 5 WIRING DIAGRAM EXAMPLE**

**REMOTE VOLUME CONTROL IS PROVIDED ON EACH INPUT**
**Inputs 6 - 7 Configuration**

### Inputs 6 - 7 Block Diagram

- **Input 6**: Mic/Aux 1
  - G: Ground
  - COM: Common
  - HOT: Hot
  - +RVC: +RVC
  - Level
  - RCA Jacks L/R
  - MIC/AUX 1
  - MIC: Mic
  - AUX: Aux
  - OP AMP
  - RVC Logic
  - Phantom Power On-Off
  - LO-CUT
  - Microphone
  - Level

- **Input 7**: Mic/Aux 2
  - G: Ground
  - COM: Common
  - HOT: Hot
  - +RVC: +RVC
  - Level
  - RCA Jacks L/R
  - MIC/AUX 2
  - MIC: Mic
  - AUX: Aux
  - OP AMP
  - RVC Logic
  - Phantom Power On-Off
  - LO-CUT
  - Microphone
  - Level

### Inputs 6 - 7 Dip Switch Programming

- **Input 6**
  - Input 6 Mic/Line Switch
  - Mute Bus M1 Is Activated
  - Switch 6M9 Is On
  - VOX 1 On-Off
  - VOX 2 On-Off
  - Mute 1 On-Off
  - Mute 2 On-Off
  - Input 6 Is Set As Aux 1

- **Input 7**
  - Input 7 Mic/Line Switch
  - Mute Bus M1 Is Activated
  - Switch 7M3 Is On
  - VOX 1 On-Off
  - VOX 2 On-Off
  - Mute 1 On-Off
  - Mute 2 On-Off
  - Input 7 Is Set As Aux 2

### Inputs 6 - 7 Wiring Diagram Example

- **Any Input Vox and Muting Function**
  - Aux 1 and Aux 2 will be muted by any input having the Vox function (V1 or V2) turned on.
REFERENCE MANUAL - INPUTS 8 - 9 CONFIGURATION

INPUTS 8 - 9 BLOCK DIAGRAM

INPUTS 8 - 9 DIP SWITCH PROGRAMMING

INPUTS 8 - 9 WIRING DIAGRAM EXAMPLE

ANY INPUT VOX AND MUTING FUNCTION

REMOTE VOLUME CONTROL IS PROVIDED ON EACH INPUT

INPUT 8 IS SET AS AUX 3

INPUT 9 IS SET AS AUX 4

ALC 10 W REMOTE VOLUME CONTROL 10K POT

CD PLAYER

AUX 3 AND AUX 4 WILL BE MUTED BY ANY INPUT HAVING THE VOX FUNCTION (V1 OR V2) TURNED ON

REMOTE VOLUME CONTROL IS PROVIDED ON EACH INPUT

RF 004
INPUT 6 ANALOG AND DIGITAL BLOCK DIAGRAM

INPUT 6 ANALOG AND DIGITAL WIRING DIAGRAM EXAMPLE

ANY INPUT VOX AND MUTING FUNCTION

REMOTE VOLUME CONTROL IS PROVIDED ON THE INPUT

CD PLAYER REAR PANEL

RF 005
The 24 volt regulated utility power supply can power external modules and other accessories.
The MIX Buss is utilized to combine the inputs of one Amplifier with the inputs of one or more Amplifiers. The Diagram shows how the Amplifiers are connected using the MIX Buss Line.

The MIX Buss Defeat Feature is used to connect or disconnect one or more Amplifiers to the MIX Buss Line through On-Off Switches as shown in the Diagram.

When the Switch is ON the MIX Buss Output is defeated on the individual Amplifier.
**REFERENCE MANUAL - 3 ZONE PAGING SYSTEM WITH PRIORITY**

**INPUTS 1 - 2 - 3 WIRING DIAGRAM EXAMPLE**

**AMPLIFIER ZONE 1**
- Input 1: MIC/LINE
- Input 2: MIC/LINE
- Input 3: MIC/LINE

**AMPLIFIER ZONE 2**
- Input 1: MIC/LINE
- Input 2: MIC/LINE
- Input 3: MIC/LINE

**AMPLIFIER ZONE 3**
- Input 1: MIC/LINE
- Input 2: MIC/LINE
- Input 3: MIC/LINE

**INPUTS 1 - 2 - 3 DIP SWITCH PROGRAMMING**

**MICROPHONE NO. 1**

**INPUT 1**: When activated, the 3 microphones will mute Input 8

**INPUT 2**

**INPUT 3**

**MICROPHONE NO. 1**

**INPUT 8**

**MUTE BUSM-1 IS ACTIVATED**

**SWITCH M8 IS ON**

**UNMUTE FUNCTION**

When the UNMUTE Switch is activated, the Microphone Input is defeated. The MIC Input is turned ON when the UNMUTE Terminal is shorted to Ground (G).
1. Input 8
2. Input 9
3. Module
4. Zone 2
5. Pre-Out
6. Input 6
7. Input 7
8. Input 8
9. Input 9
10. Module
11. MIC VOX
12. PHANTOM

CAUTION: REMOVE POWER CORD FROM AC OUTLET PRIOR TO INSTALLING MODULE.

WHEN THE FIRE ALARM IS ACTIVATED THE CONTACT CLOSURE SHORTS MUTE 1 TO GROUND. THE MUSIC CHANNEL ON INPUT 6 WILL BE MUTED FOR AS LONG AS THE ALARM IS ACTIVE.
**DIGITAL MULTI SERIES**

**MEDIA**

**DMS10X MIXER - REFERENCE MANUAL - OUTPUTS CONFIGURATION**

**OUTPUTS BLOCK DIAGRAM**

**OUTPUT TERMINATIONS WIRING**

**OUTPUTS WIRING DIAGRAM EXAMPLE**

**DMS PLUS MIXER OR AMPLIFIER**

**RF 012**