

## Series 3000

### 5 Channel 2 Zone Integrated Amplifier with VOX MOH



#### Description & Applications

- ❑ **5 Channel Inputs**  
**2 Zone Outputs**
- ❑ **Wide Frequency Response**  
**Very Low Distortion**
- ❑ **4 Balanced Microphone Inputs**
- ❑ **Multi-Level Mic Inputs Priority**
- ❑ **Phantom Power on 4 MIC Inputs**  
**with Selector**
- ❑ **600 ohm Balanced**  
**Telephone Paging Input**
- ❑ **EQ Link and Mix Buss**
- ❑ **Independent Auxiliary 1 Input**
- ❑ **Mic 4/Aux 2 Balanced Input**
- ❑ **Separate CD Player Input**
- ❑ **Independent Input Controls**  
**Bass and Treble Controls**
- ❑ **VOX - Voice Activated Muting**
- ❑ **Direct Precedence/Muting**
- ❑ **600 ohm and 8 ohm 1 Watt**  
**Music on Hold Amplifier**
- ❑ **MOH Amplifier Source Selector**
- ❑ **Zone 2, 1 Watt - 8 ohm Output**  
**with Separate Control**
- ❑ **AC Accessory Outlet**
- ❑ **8 ohm, 25 Volt & 70 Volt**  
**Output Impedance**
- ❑ **Thermally Activated Internal Fan**
- ❑ **Automatic Overload Protection**
- ❑ **High Reliability Operation**
- ❑ **Rack Mounting with Optional Kit**

#### Specifications

<b>Power Output:</b>	120 Watt RMS
<b>Distortion:</b>	Less than 0.5% THD
<b>Frequency Response:</b>	20 - 20,000 Hz ± 1 db
<b>Inputs:</b>	
<b>Input 1</b>	Bal. 250 ohm MIC 1/Phone-600 ohm
<b>Input 2</b>	250 ohm balanced MIC 2
<b>Input 3</b>	250 ohm balanced MIC 3
<b>Input 4</b>	Bal.250 ohm MIC4/AUX 2-10 K ohm
<b>Input 5</b>	47 K ohm AUX 1/CD
<b>Phantom Power:</b>	MIC 1-2-3-4 with Selector (16VDC)
<b>Sensitivity:</b>	
<b>Input 1</b>	Mic=1.5 Mv/Tel=100 Mv
<b>Input 2</b>	Mic=1.5 Mv
<b>Input 3</b>	Mic=1.5 Mv
<b>Input 4</b>	Mic=1.5 Mv/Aux 2=1 Volt
<b>Input 5</b>	Aux 1=100 Mv/CD=360 Mv
<b>Hum &amp; Noise:</b>	Mic -70 db, Aux/CD -75 db
<b>Telephone Input:</b>	600 ohm balanced
<b>Music on Hold Output:</b>	600 ohm-1 Volt Transf. balanced
<b>Zone 2 Output:</b>	1 Watt-8 ohm
<b>Output Impedance:</b>	8 ohm, 25 Volt and 70 Volt line
<b>Controls:</b>	
<b>Front Panel:</b>	MIC1/Phone Volume, MIC2-3 Volume, MIC 4/AUX 2 Volume, AUX1/CD Volume, Bass, Treble
<b>Rear Panel</b>	MOH & ZONE 2 Level Control
<b>Phantom Power:</b>	On 4 MIC Inputs w/internal jumper
<b>MOH Source:</b>	AUX1 or AUX2 w/internal jumper
<b>Tone Control Action:</b>	+/-10 db at 100 Hz and 10 K hz
<b>VOX:</b>	Voice Activated Muting MIC/PHONE mutes AUX 1 or AUX 2 with internal jumper
<b>Direct Muting:</b>	With Contact Closure
<b>Rack Mounting:</b>	Optional Rack Kit
<b>Power Requirement:</b>	117 Volt, 50-60 Hz
<b>Power Consumption:</b>	AC=850 VA
<b>AC Accessory Outlet:</b>	AC=500W Max. Unswitched
<b>Terminations:</b>	Screw Terminals, RCA Jacks
<b>Housing Finish:</b>	Black
<b>Dimensions:</b>	17" W., 9½" D., 3½" H. (432X242X89 mm)
<b>Net Weight:</b>	19 Lbs (8.7 Kg)



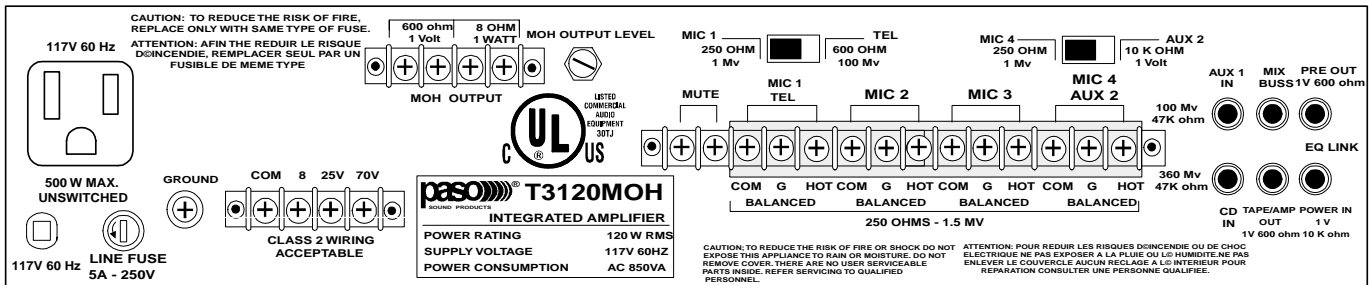
T3120MOH

**T3120MOH**

**REV 3.0**

**Form T3120MOH**

*Innovation through technology since 1931*



Rear Panel View

**Phonex=** Phone Paging Interface    **MOH=** Music on Hold Output    **VOX=** Voice Activated Muting

**Zone2=** 1 Watt, 8 ohm Second Zone No Paging    **SatRx=** Satellite Receiver Interface

**MICROPHONE 1/TELEPHONE INPUT - MICROPHONE 4/AUX 2 INPUT**  
The amplifier is equipped with 4 Microphone inputs. Microphone input 1 is convertible to a Telephone line input and Microphone input 4 is convertible to an Aux input by means of a slide switch on the rear panel. The microphone input impedance is 250 ohm balanced, the Telephone line input impedance is 600 ohm balanced and the Aux 2 impedance is 10 K ohm. The input level controls are provided on the front panel.

**MICROPHONE/TELEPHONE PAGING WITH AUTO-MUTING**  
The Microphone or Telephone Paging input provides Automatic Voice (VOX) activated Muting over the program (Music) input. Selection of the Microphone input mode (250 ohm balanced) or the Telephone input mode (600 ohm balanced), is achieved by the use of a slide switch located on the rear panel. Muting may be also accomplished by direct contact closure of the Mute terminals.

**DESK BASE MICROPHONE**  
A Desk Base Microphone with Precedence switch, such as the Paso model B50X, may also be used. When the microphone switch is engaged the precedence (Program Channel Muting) is activated.

**PROGRAM INPUTS**  
Two program inputs are provided, a 47K ohm unbalanced at 100 Mv level (AUX) and a 47K ohm unbalanced at 360 Mv level (CD). Both inputs are muted when Paging from the Microphone/Telephone input or by contact closure of the Mute terminals.

**MICROPHONE INPUT PHANTOM POWER**  
Phantom Power for Electret Microphones can be selectively activated on all four (4) Microphone inputs by internal selector.

**600 OHM BALANCED MOH OUTPUT WITH SOURCE SELECTOR**  
An independent 1 Volt-600 ohm balanced output is provided for Music on Hold Applications. The MOH Amplifier uses as a source (with selector jumper) the Aux 1 or the Aux 2 input only (not the Mic source) and it is not muted by the Vox or by the direct muting circuit.

**ZONE 2 - INDEPENDENT 1 WATT - 8 OHM AMPLIFIER**  
A 1 Watt-8 ohm Amplifier with level control is provided for Music on Hold

**Architects' and Engineers' Specifications**

The integrated amplifier shall be a solid state voltage and power amplifier. The power output shall be 120 watt RMS. The frequency response shall be 20 to 20,000 H z± 1 db. Four microphone inputs, one switchable microphone/telephone input, one switchable microphone/Aux 2 input and two program inputs shall be provided. The amplifier shall be interface ready for Telephone paging. The microphone input impedance shall be 250 ohm balanced. The Telephone input impedance shall be 600 ohm balanced. The Auxiliary and CD inputs impedance shall be 47 K ohm. Phantom Power shall be available on all four microphone inputs. Mic Inputs 2-3-4 shall be selectively muted by internal switch. Electronic microphone/telephone precedence over the program channels shall be voice activated or by external contact closure. External Equalizer and Mix Buss Link shall be provided. Tape/Booster Output shall be provided. Independent MOH Amplifier with 1 Watt, 8 ohm and 1 Volt, 600 ohm output and level control shall be provided. The output shall be 8 ohm and 25 Volt and 70.7 Volt lines. Three microphone inputs, a Microphone/Telephone input and a Program/Auxiliary input volume controls shall be provided. Independent Bass and Treble controls shall also be provided. The amplifier shall operate on 117 Volts 60 Hz. Dimensions shall be 17" Wide, 9 1/2" Deep, 3 1/2" High, (432X242X89 mm). The net weight shall be 19 lbs (8.7 Kg). Finish shall be black. The amplifier shall be rack mountable by using the optional rack mounting kit. The Paso model T3120MOH is specified.

applications or for Speaker(s) use without Paging (Music source same as for the MOH). Up to 4 (8 ohm) Speakers may be connected to this output.

**LEVELS OF MUTING PRIORITY**  
The Amplifier provides several levels of Mic. or Aux Priority:

- MIC 1/TEL** - This Input is never muted.
- AUX/CD** - These Inputs are always muted (unless VOX is defeated)
- MIC 2-3-4/Aux2** - Can be selectively muted or not by internal selector.

The INPUTS 2-3-4 Muting Selectors are located internally. When the selector is in the ON position, the corresponding INPUT will be muted when the Precedence is activated (VOX or Direct).

**EXTERNAL EQUALIZER LINK**  
An External Equalizer may be connected by using the Preamplifier Output and Power Amplifier Input Jacks of the amplifier. The Preamplifier section of the Amplifier can be equalized for acoustic correction applications.

**MIX BUSS**  
The Mix Buss feature allows the Preamplifier section to be bridged with a separate Mixer or Paso Amplifier having the same feature. In this mode all inputs are shared by both units.

**CD PLAYER INPUT**  
Separate High Level CD Player input prevents input distortion caused by CD Players High Output Level.

**ACCESSORIES**

- 27/3501** - Standard 19" rack mounting kit. Complete with hardware. Black Finish. 2 Units of Vertical Rack Space.
- 27/3503** - Wall Mounting Kit. Allows the amplifier to be wall mounted or mounted on a convenient surface. Black Finish.



**ALPHA COMMUNICATIONS**  
42 CENTRAL DRIVE  
FARMINGDALE NY 11735-1202 USA  
Phone: (631) 777-5500 - Fax: (631) 777-5599  
EMAIL: info@alpha-comm.com - URL: www.alpha-comm.com

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