

# COMPACT DMA

DIGITAL MUSIC AMPLIFIERS



**DMA SETS NEW STANDARDS FOR DIGITAL MUSIC REPRODUCTION**

**DMA2015 - 15 W INTEGRATED AMPLIFIER**

**DMA2030 - 30 W INTEGRATED AMPLIFIER**

**DMA2060 - 60 W INTEGRATED AMPLIFIER**

**DMA2120 - 120 W INTEGRATED AMPLIFIER**

- ULTRA WIDE POWER BANDWIDTH
- UNMEASURABLE DISTORTION CHARACTERISTICS
- HIGH RELIABILITY AND EXCEPTIONAL PERFORMANCE
- ADDRESSABLE VOX AND MUTING SYSTEM
- INDEPENDENT MOH AND 2ND ZONE OUTPUT
- INTELLIGENT INPUT/OUTPUT VERSATILITY
- AUTOMATIC LOAD MANAGEMENT SYSTEM
- POWER SURGE AND OVERLOAD PROTECTION

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# SPECIFICATIONS

<b>POWER OUTPUT:</b>	<b>DMA2015</b> 15 Watt RMS <b>DMA2030</b> 30 Watt RMS <b>DMA2060</b> 60 Watt RMS <b>DMA2120</b> 120 Watt RMS
<b>Distortion:</b>	0.01% THD at 1 kHz rated power
<b>Frequency Response:</b>	20 hz - 30 Khz $\pm$ 2 dB
<b>Inputs:</b>	
<b>Input 1</b>	MIC Electronically Balanced, Transformer Balanced with MT250 (optional)
<b>Input 2</b>	Telephone Transformer Balanced
<b>Input 3</b>	MIC Electronically Balanced - AUX 1 (Stereo Summing)
<b>Input 4</b>	MIC Electronically Balanced - AUX 2 (Stereo Summing)
<b>Sensitivity &amp; Z:</b>	
<b>Input 1</b>	<i>Mic 1</i> = 1.5 Mv - 250 ohm
<b>Input 2</b>	<i>Tel</i> =100 Mv - 600 ohm - Transformer Balanced
<b>Input 3</b>	<i>Mic 3</i> = 1.5 Mv - 250 ohm - AUX 1 = 100 Mv - 47K ohm
<b>Input 4</b>	<i>Mic 4</i> = 1.5 Mv - 250 ohm - AUX 2 = 100 Mv - 47K ohm
<b>Input Attenuator:</b>	AUX 1 and AUX 2
<b>Phantom Power:</b>	All Microphone Inputs by internal jumper (18 V)
<b>Hum &amp; Noise:</b>	<i>Mic</i> -70 db, <i>Aux</i> -75 db 600 ohm Transformer balanced
<b>Telephone Paging Input:</b>	
<b>EQ LINK:</b>	Preamp. out, Power Amp in with EQ Link Switch
<b>Line Outputs:</b>	Line Out 600 ohm - 1.5 V loaded
<b>Inputs/Outputs:</b>	MIX BUSS
<b>Music on Hold Output:</b>	600 ohm-1 Volt Transformer Balanced
<b>Zone 2 Output:</b>	2 Watt Max. - 8 ohm with Control
<b>Main Output Impedance:</b>	8 ohm, 25 Volt and 70 Volt line
<b>Controls:</b>	
<b>Front Panel:</b>	Input 1 Volume, Input 2 Volume, Input 3 Volume, Input 4 Volume, Bass and Treble
<b>Rear Panel:</b>	AUX 1 Attenuator - AUX 2 Attenuator, VOX Sensitivity - MOH/ZONE 1 Level Control - ZONE 2 Level Control - VOX Sensitivity - MUTE Delay
<b>Tone Controls:</b>	<b>Bass and Treble</b> $\pm$ 10 dB at 100 hZ and 10 KHz
<b>Tone By-Pass:</b>	On - Off Switch Rear Panel
<b>Remote Volume Control:</b>	<b>INPUT 3 - AUX 1</b> Input Volume
<b>MOH Source Selection:</b>	AUX 1 and AUX 2
<b>Zone 2 Source Selection:</b>	AUX 1 and AUX 2
<b>VOX BUSS:</b>	Available on all Inputs by internal Jumper
<b>MUTE BUSS:</b>	Available on all Inputs by internal Jumper
<b>MUTE DELAY:</b>	Adjustable from 3 Sec to 60 Sec (rear panel control)
<b>Direct Muting:</b>	External Contact Closure
<b>Unmuting:</b>	MUTES/UNMUTES MIC 1 only
<b>Power Supply Output:</b>	24 V DC - 250 mA Regulated
<b>Rack Mounting:</b>	Optional 19" Rack Kit
<b>Internal Cooling Fan:</b>	Thermally Controlled - <i>Models DMA2060, DMA2120</i>
<b>Protection:</b>	Power Surge, Overload and Thermal Protection
<b>Power Requirement:</b>	117 Volt, 50-60 hZ
<b>Power Consumption:</b>	<b>DMA2015</b> = AC = 570 VA - <b>DMA2030</b> = 600 VA <b>DMA2060</b> = 670VA - <b>DMA2120</b> = 850VA Max.
<b>AC Accessory Outlet:</b>	117 v - 500 W Max. Unswitched
<b>Terminations:</b>	Screw Terminals, RCA Jacks
<b>Housing Finish:</b>	Black
<b>Output Power Indicator:</b>	Multi-color LED Signal and Clip
<b>Dimensions:</b>	10.75" W., 11" D., 4" H. with feet (274X280X102 mm) 3.5" H (89 mm), less feet
<b>Net Weight:</b>	<b>DMA2015</b> = 9.8 Lbs (4.5 Kg) - <b>DMA2030</b> = 11.75 Lbs (5.4 Kg) <b>DMA2060</b> = 12.5 Lbs (5.7 Kg) - <b>DMA2120</b> = 14.25 Lbs (6.5 Kg)

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## CAPABILITY - FEATURES



The New DMA SERIES is like no other Amplifier Line. Every component utilized is Heavy-Duty. Built tough to take the daily punishment required for continuous operation. DMA delivers Outstanding Sonic Performance at any level of rated power and with any Speaker System Load. Breakthrough Technology is applied to every critical Circuitry from Power Surge Protection and Speed Controlled Fans for Thermal Protection to massive High Current Power Supplies. The Load Management System has the ability to adapt the power transfer to specific speaker loads. By delivering more current on demand to the Output Stages when Peak Power is needed the Amplifier will automatically provide the additional Reserve Headroom required. Sound purity is maintained with lower distortion for "Heavier Bass" and "Clearer Highs". Four models from 15 Watt to 120 Watt.

**Inputs - Input 1** is set as Microphone Input. Impedance is 250 ohm electronically balanced. This Input may be Transformer balanced by using the optional Transformer Model MT250.

**Input 2** is Phone Paging to interface with a Phone System. Input Impedance is 600 ohm, Transformer Balanced. A level control is available on the Front Panel.

**Input 3 and 4** can be set at either MIC or AUX Level, (internal Switch/Jumper). Impedance is 250 ohm on MIC and 47 K on AUX.

**Phantom Power** - Provided on all Inputs set as MIC.

**Stereo Summing** - Two separate RCA Jacks are provided for Input 3 and 4 (Left and Right). A Stereo signal connected to either Input is buffered and internally summed to Mono.

**Input 3 & 4 Attenuators** - When the Inputs are set as AUX 1 and AUX 2 the input sensitivity may be varied by a rear panel Variable Attenuator. This feature allows to set the output level of Programs originating from different sources (CD, Satellite Receiver, etc.).

**MIX BUSS** - This Input/Output may be utilized to parallel two amplifiers or as an input for a Microphone Mixer or other audio source. When used as an Input the Amplifier Level and Equalization Controls have no effect.

**Line Out** - 600 ohm, 1.5 Volt Line Output.

**Remote Volume Control** - The INPUT 3/AUX 1 Input Volume may be adjusted from a remote location. Remote Volume Inputs utilize a 10K Pot and are immune to Audio Interference (DC Operation).

**Addressable VOX System** - The VOX System can be individually selected to operate independently on all 4 Inputs by means of jumpers .

**Addressable Muting System** - All Inputs may be set to be Muted when the Vox is activated.

**Direct Muting/Unmuting System** - The MUTE function may be activated by external contacts. MIC 1 Input may be set to normally off and turned-on by shorting the Unmute Terminals.

**MUTE Adjustable Delay** - A rear panel control adjusts the MUTE Time Delay from 3 Sec. to 60 Sec. Particularly useful to control the length of time that an Input mutes another (for example AUX 1 over AUX 2).

**Music on Hold - Output Channel 1** - Channel 1 provides a 1 Volt, 600 ohm Transformer Balanced Output. Internal Jumper selects the source from either AUX 1 or AUX 2. Level Control is provided.

**Output Channel 2** - Channel 2 provides a 2 Watt Max., 8 ohm output for Zone 2 Speaker Output. Internal Jumper selects the source from either AUX 1 or AUX 2. Level Control is provided.

**Internal Chime Card** - An optional Chime Card Model AC1DMS is available. When the Direct Muting is activated the Chime is turned-on.

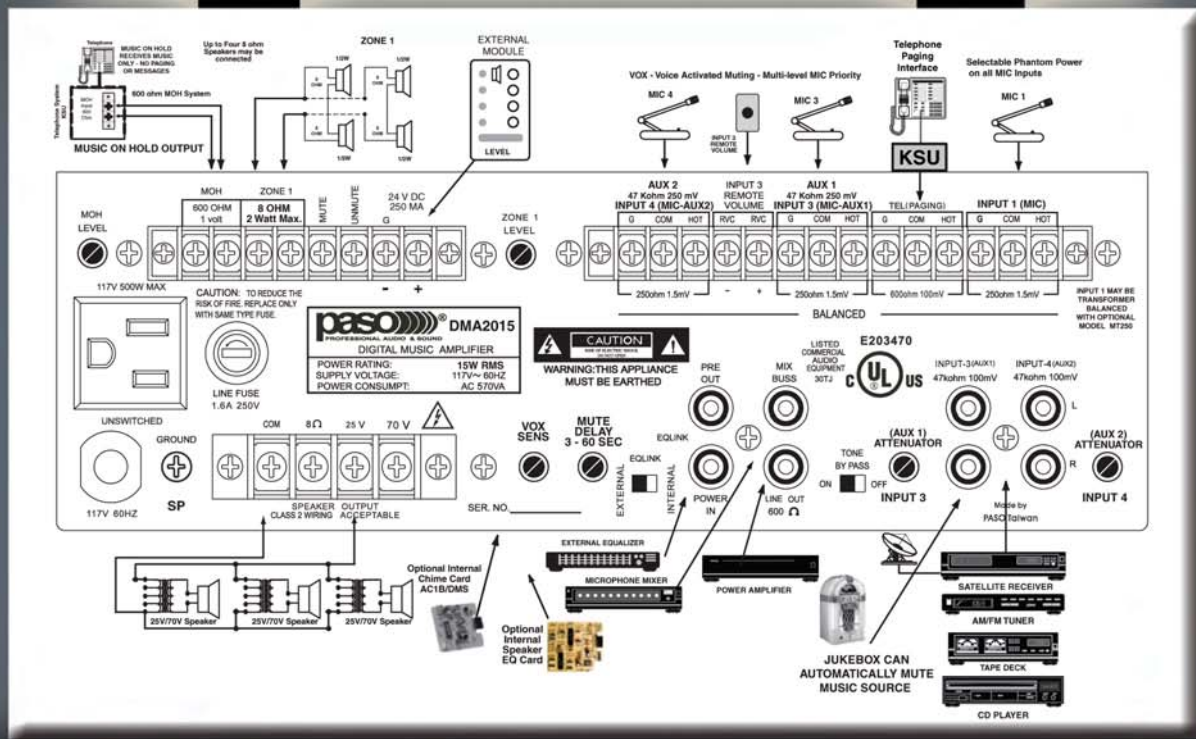
**EQ LINK** - EQ Link (Preamp. Out) (Power Amp In) jacks are provided for External Equalizer. Activated by the EQ Link Switch.

**Tone By-Pass Switch** - The Tone by-pass switch defeats the setting of the Treble and Bass Controls. Should be used when an External Equalizer is utilized.

**24 VDC Supply Output** - A 24 Volt DC, 250 mA regulated Power Supply with dynamic filter is provided for external accessories

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# CONNECTIVITY - APPLICATIONS



## ACCESSORIES



**27/3500** - Standard 19" Rack Mounting Kit. Complete with hardware. Black Finish. 2 Units of Rack vertical space.



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**AC1B/DMS** - Internal Plug-in Dual tone Chime Card. Mounts on main printed circuit board of Amplifier. Provides a Dual Tone Electronic Chime each time the Mute terminals are closed.



**PMEQ32B** - Internal Plug-in EQ Module. Mounts on main printed circuit board of Amplifier. Provides equalization for the BOSE® System 32 Speaker System.



**MT250** - 250 Ohm Balanced Input Transformer Mounts on printed circuit board of Amplifier. Operates on INPUT 1 only.

## AUTHORIZED DISTRIBUTOR

