



**DMS™**  
DIGITAL MUSIC SERIES

**Digital Music  
Integrated Amplifiers**

MODULE PORT - DUAL VOX - MOH - MIC - PHONE INTERFACE - EQ LINK - 3 ZONE - VOX RELAY

**DMS 3040 - 40 Watt**  
**DMS 3080 - 80 Watt**  
**DMS 3120 - 120 Watt**



**Integrated Amplifiers**

## General Information

- ❑ High Performance
  - High Reliability Design
- ❑ Wide Frequency Response
  - Very Low Distortion
- ❑ 7 Channel Inputs - 3 Zone Outputs
- ❑ 5 Balanced Microphone Inputs
- ❑ Phantom Power on all MIC Inputs
- ❑ MIC 4/AUX 1 and MIC 5/AUX 2 Inputs
  - With Stereo Summing
- ❑ AUX1 and AUX2 Inputs Attenuator
- ❑ 600 ohm Transformer Balanced
  - Telephone Paging Input
- ❑ MIX Buss and 600 ohm Line Output
- ❑ Independent Input Controls
- ❑ Rear Panel Port:
  - Accepts Standard Module
- ❑ Independent Module Level Control
- ❑ AUX1 and Master Remote Volume
  - Controls
- ❑ External EQ Link
  - Tone by-pass and EQ Link switches
- ❑ Pre-EQ Subwoofer Output
- ❑ Post-EQ Subwoofer Output
- ❑ Addressable Dual VOX Buss
  - Voice Activated Muting
- ❑ VOX Variable Time Delay Function
- ❑ Addressable Dual MUTE Buss
- ❑ Direct Muting and Unmuting
- ❑ 600 ohm and 8 ohm 1 Watt
  - Music on Hold Amplifier
- ❑ MOH Amplifier Source Selector
- ❑ Zone 2 and 3, 1 Watt - 8 ohm Output
  - with Separate Control
- ❑ NO/NC VOX Operated Relay
- ❑ 24 V DC 250 mA Regulated
  - Power Supply Output
- ❑ 8 ohm, 25 Volt & 70 Volt Output
- ❑ Optional 19" Rack Mounting with Kit
- ❑ Low profile - 2-Units
  - of Vertical Rack space
- ❑ UL 6500 Listed (US - CANADA)

*Seventy years of innovation through technology . . . 1931 - 2001*

## Specifications - Models DMS3040 - DMS3080 - DMS3120

## DMS Integrated Amplifiers - Specifications

### Power Output:

**DMS3040**  
**DMS3080**  
**DMS3120**

40 Watt RMS  
80 Watt RMS  
120 Watt RMS  
Less than 0.5% THD  
20 - 20,000 Hz  $\pm$  1 db

### Distortion:

### Frequency Response:

### Inputs:

Input 1  
Input 2  
Input 3  
Input 4  
Input 5  
Input 6  
Input 7

Microphone 1 Balanced  
Microphone 2 Balanced  
Microphone 3 Balanced  
Microphone 4 Balanced - AUX 1 (*Stereo Summing*)  
Microphone 5 Balanced - AUX 2 (*Stereo Summing*)  
Telephone Interface - Transformer Balanced  
Module Port

### Sensitivity & Z:

Input 1  
Input 2  
Input 3  
Input 4  
Input 5  
Input 6  
Input 7

*Mic 1* = 1.5 Mv - 250 ohm  
*Mic 2* = 1.5 Mv - 250 ohm  
*Mic 3* = 1.5 Mv - 250 ohm  
*Mic 4* = 1.5 Mv - 250 ohm - AUX 1 = 100 Mv - 47K ohm  
*Mic 5* = 1.5 Mv - 250 ohm - AUX 2 = 100 Mv - 47K ohm  
*Te* = 100 Mv - 600 ohm - Transformer Balanced  
*Module* = 1 V - 47K ohm

### AUX 1 Input Attenuator:

### AUX 2 Input Attenuator:

Variable (rear panel control)  
Variable (rear panel control)

### Phantom Power:

### Hum & Noise:

### Telephone Paging Input:

### Accessory Port:

### EQ LINK:

### Line Outputs:

### Inputs/Outputs:

### Subwoofer Outputs:

### Subwoofer Output Level:

### Music on Hold Output:

### Zone 2 Output:

### Zone 3 Output:

### Main Output Impedance:

### Controls:

#### Front Panel:

#### Rear Panel:

All Microphone Inputs by internal jumper (18 V)  
*Mic* -70 db, *Aux* -75 db  
600 ohm Transformer balanced  
Accepts Standard Module  
Preamp out, Power Amp in with EQ Link Switch  
Line Out 600 ohm - 1.5 V loaded  
MIX BUSS  
Pre-EQ and Post-EQ Outputs  
1 Volt  
600 ohm-1 Volt Transformer Balanced  
1 Watt-8 ohm with Control  
1 Watt-8 ohm with Control  
8 ohm, 25 Volt and 70 Volt line

### Bass and Treble Controls:

### Tone By-Pass:

### Remote Volume Controls:

### MOH Source Selection:

### Zone 2 and 3 Source Selection:

### DUAL VOX:

### VOX BUSS 1:

### VOX BUSS 2:

### MUTE BUSS 1:

### MUTE BUSS 2:

### MUTE 2 DELAY:

### Unmuting:

### Power Supply Output:

### Auto VOX Relay:

### Rack Mounting:

### Internal Cooling Fan:

### Power Requirement:

### Power Consumption:

### AC Accessory Outlet:

### Terminations:

### Housing Finish:

### Output Power Indicator:

### Dimensions:

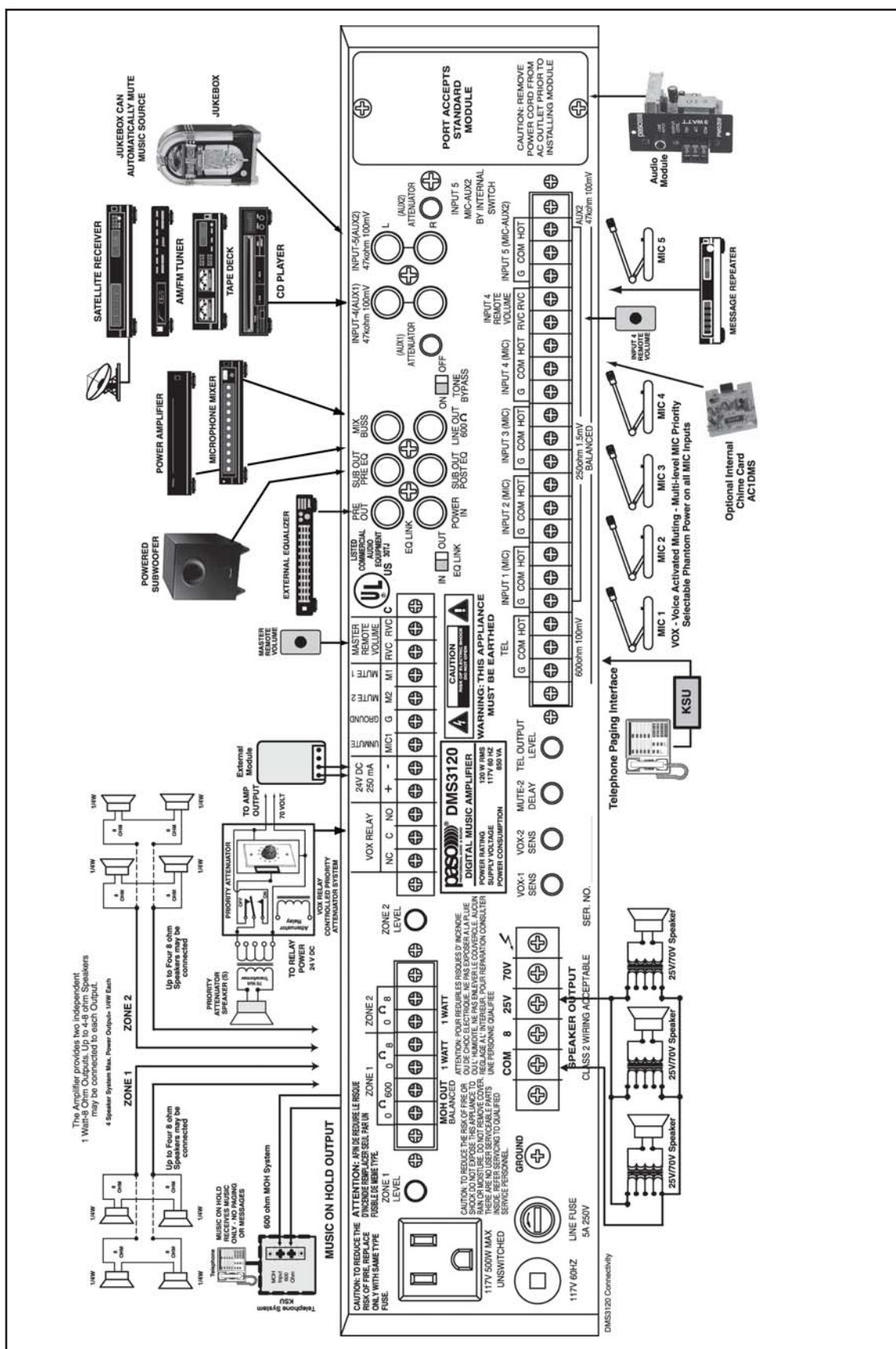
### Net Weight:

**DMS3040**  
**DMS3080**  
**DMS3120**

Input 1 Volume, Input 2 Volume, Input 3 Volume, Input 4 Volume, Input 5 Volume, Module Volume, Bass and Treble  
PHONE Level - AUX 1 Attenuator - AUX 2 Attenuator - MOH/ZONE 1 Level Control - ZONE 2 Level Control - VOX 1/VOX 2 Sensitivity - MUTE 2 Delay  $\pm$  10 dB at 100 Hz and 10 KHz  
On - Off Switch (*rear panel*)  
AUX 1 Input Volume and Master Volume  
AUX 1 - AUX 2 - MODULE by internal jumper  
AUX 1 - AUX 2 - MODULE by internal jumper  
Voice Activated Muting  
Available on all 7 Inputs by internal jumpers  
Available on all 7 Inputs by internal jumpers  
Available on all 7 Inputs by internal jumpers  
Available on all 7 Inputs by internal jumpers  
Adjustable from 3 Sec to 30 Sec (rear panel control)  
MUTES/UNMUTES MIC 1 only  
24 V DC - 250 mA Regulated  
NO/NC Contacts - VOX activated - Contacts Rating = 30 VDC - 7 A  
Optional Model 27/3501 - 19" Rack Kit  
3" Thermally Controlled - *Model DMS3120 only*  
117 Volt, 50-60 Hz  
**DMS3040** = AC = 630 VA - **DMS3080** = 750 VA - **DMS3120** = 850VA Max.  
500 W Max. Unswitched  
Screw Terminals, RCA Jacks  
Black  
Multi-color LED (*front panel*)  
19" W., 12" D., 4" H. with feet (482X305X102 mm) 3.5" H (89 mm). less feet  
16 Lbs (8 Kg)  
19 Lbs (8.5 Kg)  
22 Lbs (11 Kg)

**DMS**<sup>TM</sup>  
DIGITAL MUSIC SERIES

## Connectivity - Applications

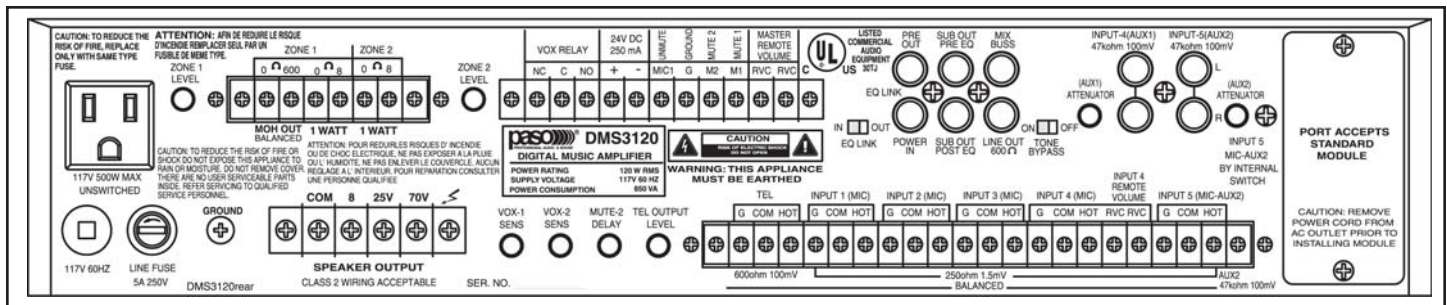




# TECHNICAL DATA

# SERIES DMS

## DMS3040 - DMS3080 - DMS3120 Rear View



**Inputs 1 - 5** - Inputs 1 - 5 are set as Microphone Inputs. Impedance is 250 ohm balanced. Input 4 can be switched to AUX 1, Input 5 can be switched to AUX 2 (internal jumper). Impedance is 47 K ohm.

**Phantom Power** - Phantom Power is provided on all 5 Inputs.

**Stereo Summing** - Two separate RCA Jacks are provided for Input 4 and 5 (Left and Right). A Stereo signal connected to either Input is buffered and internally summed to Mono.

**Input 4 & 5 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.).

**Phone Paging** - A separate input is provided to interface with a Phone System. Input Impedance is 600 ohm, Transformer Balanced. A level control is available on the rear panel.

**Module Port** - Port accepts standard plug-in module. Module Level Control is provided on the front panel. See list of modules available from PASO.

**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 Controls** - The AUX 1 Input Volume and the Master Volume may be adjusted from a remote location. Remote Volume Inputs utilize a 50K Pot and are immune to Audio Interference (DC Operation).

**Addressable Dual VOX System** - The Dual VOX System can be individually selected to operate independently on all 7 Inputs by means of jumpers. Any Input may be set to activate either VOX 1

or VOX 2.

**Addressable Dual Muting System** - The Dual VOX System can be individually selected to operate independently with all 7 Inputs by means of jumpers. Any Input may be set to activate either MUTE 1 or MUTE 2.

**MUTE 2 Adjustable Delay** - A rear panel control adjusts the MUTE 2 Time Delay (the time the MUTE 2 stays activated) from 3 Sec. to 30 Sec. Particularly useful to control the length of time that an Input mutes another (for example AUX 1 over AUX 2).

**NO/NC VOX Relay** - A VOX Relay is activated each time the VOX or the Muting functions are turned-on. Three terminals provide Normally Open and Normally Closed Contacts.

**Music on Hold - Output Channel 1** - Channel 1 provides a 1 Volt, 600 ohm balanced output and a 1 Watt, 8 ohm output for Music/Message on Hold or Zone 1 Speaker Output. Internal Jumper selects the source from either AUX 1, AUX 2 or Input Module. Level Control is provided.

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

**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.

**Subwoofer Outputs** - Two independent Subwoofer Outputs are provided a Pre-Equalization Output and a Post-Equalization Output. Output Voltage is 1 Volt.

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

## ACCESSORIES



**27/3501** - Standard 19" Rack Mounting Kit. Complete with hardware. Black Finish. 2 Units of Rack vertical space.



**AC1/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. May be activated by the microphone Muting switch. May be used with all DMS Series Amplifiers (except DMS4121).



*since 1931*

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