

# NANOAMP™ Compact Distribution Amplifier

DMA103

Your **DMA103** Audio Distribution Amplifier is an inexpensive high performance amplifier designed to split and isolate audio signal lines.

The **DMA103** accepts a **microphone level input** signal and provides either line or microphone level outputs to drive balanced or unbalanced lines. Phantom microphone power is provided and all audio connections are made using XLR type connectors.

- One microphone input to three servo balanced line outputs
- DIP switch selection
- Phantom power
- Preamp gain
- Master control gain
- Independent trimmers
- XLR input and outputs



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## Technical Specifications

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<b>OUTPUT LEVEL</b>	+22dBm MAX, +4dBm Nominal into 600 ohm balanced or unbalanced lines
<b>FREQUENCY RESPONSE</b>	+/- .25dB 20Hz to 20kHz
<b>DISTORSION</b>	.05% THD Maximum at +20dBm; .005% at nominal levels 20Hz to 20kHz
<b>NOISE</b>	MIC Input: EIN = -124dBm, LINE Input: EIN = -90dBm, 20Hz to 20kHz measurement bandwidth
<b>GAIN</b>	Internal gain selection at 16, 30 or 40dB maximum.
<b>PHANTOM POWER</b>	+20VDC regulated; Optional 48VDC available.
<b>POWER</b>	22 to 30VDC, 24VDC Nominal. @ 100mA; See Power Supplies and Accessories
<b>DIMENSIONS in. (cm)</b>	1.75(4.45)H x 5.6(14.22)W x 5.75(14.6)D; 1.25 lbs, .57Kg
<b>MOUNTING</b>	Free standing or rack mountable; one, two or three units in 1¾"
<b>CONNECTORS</b>	Two piece quick release screw plug connector per input and and outputs.
<b>POWER SUPPLIES</b>	
WA100-1	Wall mount power supply (UL), 24VDC @ .4amp, 115 VAC/60Hz.
WA100-2	Wall mount power supply or Table top power supply with IEC 320 Male 3 pin AC input connector, 24VDC @ .4amp, 230VAC/50Hz
PH48-1	48VDC phantom power option
<b>RACK MOUNT KITS</b>	<b>20604-501</b> Center mount for single unit <b>20604-502</b> Side-by-side mount for two units <b>20604-503</b> Side-by-side mount for three units
<b>DESK MOUNT KITS</b>	<b>20617-501</b> Angled Desk Mount Base. <b>20617-502</b> Angled Desk Mount Base and One Stacker (2 units high). <b>20617-503</b> Angled Desk Mount Base and Two Stackers (3 units high). <b>20617-504</b> Stacker (2 units high) <b>20604-504</b> Horizontal Joiner (2 units side-by-side)
<b>FIELD ACCESSORIES</b>	
PROK-1	Unit protection kit, which consists of a set of side plates with, attached side brackets. The side plates protect the front panel controls and the rear XLR connectors from impact damage, and for attachment to carry strap (not included); the side brackets provide ease of access and exchange of the power assemblies i.e. PPA, DCA, or BBU.
<b>REMOTE POWER PACKS</b>	
PPA-1	Integrated power pack assembly for <b>remote operation</b> , which mounts to a mixer. Includes housing, rechargeable gel-cell battery pack (four hours operation), and an external battery charger operating at 115VAC/60Hz.
PPA-2	Same as above except battery charger operating at 230VAC/50Hz. Euro plug. Contact factory for other plug configurations.
PPA-B	Extra rechargeable battery pack, charger not included.
DCA100-1	Integrated DC/DC assembly, which mounts to a mixer and accepts external battery power with DC inputs from 10 to 32 volts to produce 24VDC at 200mA maximum.
BBU100-1	Battery Pack houses four 9V alkaline or lithium batteries (not included) for remote operation or back-up power.
<b>WARRANTY</b>	Limited, One Year Warranty