

# DMA8825

2000 Watt 8x8 Digital Matrix Amplifier

- 8-channel amplifier 250 watts per channel 4 ohm and constant voltage models available (70V or 100V)
- 8-in x 8-out sophisticated matrix mixing makes routing easy

## **DMA8425**

1000 Watt 8x4 Digital Matrix Amplifier

- 4-channel amplifier 250 watts per channel 4 ohm and constant voltage models available (70V or 100V)
- > 8-in x 4-out sophisticated matrix mixing makes routing easy

## **DMA8813**

1040 Watt 8x8 Digital Matrix Amplifier

- 8-channel amplifier 130 watts per channel 4 ohm and constant voltage models available (70V or 100V)
- 8-in x 8-out sophisticated matrix mixing makes routing easy



- 520 Watt 8x4 Digital Matrix Amplifier
- 4-channel amplifier 130 watts per channel 4 ohm and constant voltage models available (70V or 100V)
- 8-in x 4-out sophisticated matrix mixing makes routing easy



#### Overview

Asystems introduces the DMA series digital matrix amplifiers – combining smart signal processing with a flexible modular mixing matrix and robust amplification. Sound complex? It's not, because all routing and processing is adjusted through the simple yet intuitive software.

The DMA series provides racks-full-o-gear in a modest 2U construct. Combining many great products into a simple design, the DMA series simplifies your installation and saves you money.

With extensive onboard signal processing, flexible matrix routing and optional audio interface capabilities, the DMA series matrix amplifiers do it all.

Our engineers have ingrained each DMA with versatile and extensive signal processing, including full 31-band GEQs, 4-band parametric EQs, compressors, limiters, VCAs, auto-mixing and auto-leveling, and page ducking. The DMA series also features password protected user accounts, extensive event scheduling capabilities, and flexible audio networking (optional Dante expansion). Whether designing or installing systems in auditoriums, restaurants, houses of worship, boardrooms, courtrooms or performance spaces, there is a DMA matrix amplifier that will fit your exact requirements.

- Fully-featured DSP processing (see page 2)
- Stand-alone control possible with monitor and mouse
- ► 10/100MB Ethernet interface as standard
- Intuitive user interface for Windows
- ▶ 8 mic/line inputs through Euroblock or RCA
- > 24-bit AD/DA converters
- ▶ 8x4 or 8x8 configurations available
- Optional 8x8 Dante networking (DT88)
- Preset recall and remote level through euroblock
- Built-in memory with 50 scenes
- SD card slot for audio playback
- Event scheduling for on/off, playback and more
- Compatible with third-party controllers
- Input and output metering viewable through software
- Password-protected user accounts
- ▶ Complies with FCC, CE, RoHS regulations



### **System Specifications**

Distortion (THD-N, typical) - 8 ohm load, 10dB below rated power, 20Hz-20kHz<0.5%	Signal to Noise (20Hz-20KHz, unweighted)	>110dB		
Frequency Response20Hz-20kHz, +/-1dBDamping Factor (8 ohm load, <1kHz)	Distortion (THD-N, typical) - 8 ohm load, 10dB below rated power, 20Hz-20kHz	<0.5%		
Damping Factor (8 ohm load, <1kHz)>250Input Impedance20K Ohm, balancedMaximum Input Level+24dBCoolingTemperature dependent speed-controlled axial fanControl NetworkOnboard, compatible with standard 10/100MB Ethernet hardwareFront Panel Indicators8 x Clip, -10dB, -20dB, Signal, Bridge (per pair), Power Standby, Protect, 	Frequency Response	20Hz-20kHz, +/-1dB		
Input Impedance20K Ohm, balancedMaximum Input Level+24dBCoolingTemperature dependent speed-controlled axial fanControl NetworkOnboard, compatible with standard 10/100MB Ethemet hardwareFront Panel Indicators8 x Clip, -10dB, -20dB, Signal, Bridge (per pair), Power, Standby, Protect, Power DisableAttenuators8 x front panel, software, and remoteInput ConnectorsEuroblock & Stereo RCAOutput ConnectorsEuroblockAmplifier Protection1120VAC/240VAC Switching Power Supply UnitPower Supply Unit483 x 89 x 394 mm (19" x 3.5" x 15.5")Weight9.53 kg (21 lbs)	Damping Factor (8 ohm load, <1kHz)	>250		
Maximum Input Level+24dBCoolingTemperature dependent speed-controlled axial fanControl NetworkOnboard, compatible with standard 10/100MB Ethernet hardwareFront Panel Indicators8 x Clip, -10dB, -20dB, 	Input Impedance	20K Ohm, balanced		
CoolingTemperature dependent speed-controlled axial fanControl NetworkOnboard, compatible with standard 10/100MB Ethemet hardwareFront Panel Indicators8 x Clip, -10dB, -20dB, Signal, Bridge (per pair), Power, Standby, Protect, Power DisableAttenuators8 x front panel, software, and remoteInput ConnectorsEuroblock & Stereo RCAOutput ConnectorsEuroblockAmplifier Protection110VAC/240VAC Switching, power Supply UnitPower Supply Unit483 x 89 x 394 mm (19" x 3.5" x 15.5")Weight9.53 kg (21 lbs)	Maximum Input Level	+24dB		
Control NetworkOnboard, compatible with standard 10/100MB Ethernet hardwareFront Panel Indicators8 x Clip, -10dB, -20dB, Signal, Bridge (per pair), Power, Standby, Protect, Power DisableAttenuators8 x front panel, software, and remoteInput ConnectorsEuroblock & Stereo RCAOutput ConnectorsInrush current limitation, temperature monitoring, output over-current protection, mains fusesPower Supply Unit120VAC/240VAC Switching Power Supply UnitDimensions (W x H x D)483 x 89 x 394 mm (19" x 3.5" x 15.5")Weight9.53 kg (21 lbs)	Cooling	Temperature dependent speed-controlled axial fan		
Front Panel Indicators8 x Clip, -10dB, -20dB, Signal, Bridge (per pair), Power, Standby, Protect, Power DisableAttenuators8 x front panel, software, 	Control Network	Onboard, compatible with standard 10/100MB Ethernet hardware		
Attenuators     8 x front panel, software, and remote       Input Connectors     Euroblock & Stereo RCA       Output Connectors     Euroblock       Amplifier Protection     Inrush current limitation, temperature monitoring, output over-current protection, mains fuses       Power Supply Unit     120VAC/240VAC Switching Power Supply, 15A Edison cable       Dimensions (W x H x D)     483 x 89 x 394 mm (19" x 3.5" x 15.5")       Weight     9.53 kg (21 lbs)	Front Panel Indicators	8 x Clip, -10dB, -20dB, Signal, Bridge (per pair), Power, Standby, Protect, Power Disable		
Input Connectors         Euroblock & Stereo RCA           Output Connectors         Euroblock           Amplifier Protection         Inrush current limitation, temperature monitoring, output over-current protection, mains fuses           Power Supply Unit         120VAC/240VAC Switching Power Supply, 15A Edison cable           Dimensions (W x H x D)         483 x 89 x 394 mm (19" x 3.5" x 15.5")           Weight         9.53 kg (21 lbs)	Attenuators	8 x front panel, software, and remote		
Output Connectors         Euroblock           Amplifier Protection         Inrush current limitation, temperature monitoring, output over-current protection, mains fuses           Power Supply Unit         120VAC/240VAC Switching Power Supply, 15A Edison cable           Dimensions (W x H x D)         483 x 89 x 394 mm (19" x 3.5" x 15.5")           Weight         9.53 kg (21 lbs)	Input Connectors	Euroblock & Stereo RCA		
Amplifier ProtectionInrush current limitation, temperature monitoring, output over-current protection, mains fusesPower Supply Unit120VAC/240VAC Switching Power Supply, 15A Edison cableDimensions (W x H x D)483 x 89 x 394 mm (19" x 3.5" x 15.5")Weight9.53 kg (21 lbs)	Output Connectors	Euroblock		
Power Supply Unit120VAC/240VAC Switching Power Supply, 15A Edison cableDimensions (W x H x D)483 x 89 x 394 mm (19" x 3.5" x 15.5")Weight9.53 kg (21 lbs)	Amplifier Protection	Inrush current limitation, temperature monitoring, output over-current protection, mains fuses		
Dimensions (W x H x D)         483 x 89 x 394 mm (19" x 3.5" x 15.5")           Weight         9.53 kg (21 lbs)	Power Supply Unit	120VAC/240VAC Switching Power Supply, 15A Edison cable		
Weight 9.53 kg (21 lbs)	Dimensions (W x H x D)	483 x 89 x 394 mm (19" x 3.5" x 15.5")		
	Weight	9.53 kg (21 lbs)		





## **DMA SERIES** Digital Matrix Amplifiers

### **DSP Specifications**

Function         Parameter         Range           Compressor / Limiter         Compressor / Immeshold         -50 dB to 0 dB           Compressor / Limiter         Limiter Threshold         -50 dB to 0 dB           Gate         Attack / Release         1 ms to 8 seconds           Attack / Release         1 ms to 8 seconds           Threshold         -50 dB to 0 dB           Expander         Threshold         -50 dB to 0 dB           Delay Time (meters)         0.0 to 800. ms           Delay Time (meters)         0.0 to 805.4           Temperature (C)         0'' to 50''           Temperature (F)         32'' to 122''           By PF, Notch, Peak, HPF, LPF, High Sheff, Low Sheff         Pace           Attack / Release         1 ms to 8 seconds           Type         DPF, Notch, Peak, HPF, HPF, Hagh Sheff, Low Sheff           Gain         -18 dB to 14 dB           Frequencies         20 Hz to 20 Hz           Q         0.1 to 10           Q         16 to 10           HPF (6d B, 12 dB, 18dB, 12 dB, 18dB, 12 dB, 18dB, 12 dB,						
Compressor / Limiter         -50 dB to 0 dB           Ratio         1:1 to 20:1           Limiter Threshold         -50 dB to 0 dB           Output Gain         0 dB to 18 dB           Attack / Release         1 ms to 8 seconds           Threshold         -50 dB to 0 dB           Attack / Release         1 ms to 8 seconds           Threshold         -50 dB to 0 dB           Attack / Release         1 ms to 8 seconds           Threshold         -50 dB to 0 dB           Expander         Ratio         1:1 to 20:1           Attack / Release         1 ms to 8 seconds           Delay Time (meters)         0.0 to 880.0 ms           Delay Time (meters)         0.0 to 880.4           Temperature (C)         0'to 50'           Temperature (F)         32' to 122'           BF, Notch, Peak, HPF, LHPS, HH, MS, HU, WS helf         Gain           -18 dB to +18 dB         Frequencies         20 Hz to 20 Hz           Q         0.1 to 10         10           Q         1.6 to 10         10           Q         1.6 to 10         10           Q         0.1 to 10         10           Q         1.6 to 10         10           Q         1.6 to 10	Function	Parameter	Range			
Ratio         1.1 to 20:1           Limiter Threshold         -50 dB to 0 dB           Output Gain         0 dB to 10 dB           Attack / Release         1 ms to 8 seconds           Threshold         -50 dB to 0 dB           Gate         Range         -90 dB to 0 dB           Attack / Hold / Release         1 ms to 8 seconds           Threshold         -50 dB to 0 dB           Attack / Hold / Release         1 ms to 8 seconds           Delay Time (mS)         0.0 to 680.0 ms           Delay Time (meters)         0.0 to 680.0 ms           Delay Time (meters)         0.0 to 680.0 ms           Delay Time (meters)         0.0 to 680.0 ms           Delay Time (meter)         0.0 to 680.0 ms           Delay Time (meter)         0.0 to 680.0 ms           Delay Time (meter)         0.0 to 245.5           Delay Time (meter)         0.0 to 20.1 kato           Trequencies         2.0 k1z           Theequencies         2.0 k1z		Compressor Threshold	-50 dB to 0 dB			
Compressor / Limiter         Limiter Threshold         -50 dB to 0 dB           Output Gain         0 dB to 18 dB           Output Gain         -50 dB to 0 dB           Gate         Threshold         -50 dB to 0 dB           Attack / Hold / Release         1 ms to 8 seconds           Threshold         -50 dB to 0 dB           Expander         Threshold         -50 dB to 0 dB           Expander         Threshold         -50 dB to 0 dB           Delay Time (mS)         0.0 to 680.0 ms           Delay Time (meters)         0.0 to 245.5           Delay Time (meters)         0.0 to 245.5           Delay Time (meters)         0.0 to 800.0 ms           Temperature (F)         32" to 122"           BPF, Notch, Peak, HPF, LPF, High Shelf, Low Shelf         Gain           Gain         -18 dB to +18 dB           Frequency         20 Hz to 20 kHz           Q         0.1 to 10           Staband Graphic EQ         Range           Range         -12 dB to +12 dB           Q         1.6 to 10           HPF (6 dB, 12 dB, 18dB, 14dB, 14dB		Ratio	1:1 to 20:1			
Output Gain         0.d B to 18 dB           Attack / Release         1 ms to 8 seconds           Threshold         -50 dB to 0 dB           Gate         Range         -90 dB to 0 dB           Expander         Threshold         -50 dB to 0 dB           Batio         1:1 to 20:1         Attack / Release           Threshold         -50 dB to 0 dB         0:0 to 680.0 ms           Delay Time (mS)         0.0 to 680.0 ms         0:0 to 245.5           Delay Time (meters)         0.0 to 680.0 ms         0:0 to 245.5           Delay Time (meters)         0.0 to 680.0 ms         0:0 to 245.5           Delay Time (meters)         0.0 to 680.4         1:0 more relative (C)         0:0 to 50°           Temperature (C)         0:0 to 50°         1:0 more relative (C)         0:0 to 25.4           4-band Equalizer         Gain         -18 dB to +18 dB           Frequencies         20 Hz to 20 kHz         Q           31-band Graphic EQ         Range         -12dB to +12dB           Q         1.6 to 10         10           Type         LPF (6 dB, 12 dB, 18dB, 24dB), High Sheft, Low Sheff, Peak, APF, BPF, Notch, Peak, APF, BPF, Notc	Compressor / Limiter	Limiter Threshold	-50 dB to 0 dB			
Attack / Release         1 ms to 8 seconds           Gate         Threshold         -50 dB to 0 dB           Attack / Hold / Release         1 ms to 8 seconds           Threshold         -50 dB to 0 dB           Attack / Hold / Release         1 ms to 8 seconds           Delay Time (mS)         0.0 to 680.0 ms           Delay Time (meters)         0.0 to 680.0 ms           Delay Time (feet)         0.0 to 680.4 ms           Temperature (F)         32" to 122"           BPF, Notch, Peak, HPF, LPF, High Sheft, Low Sheft         -60 of "to 50"           Temperature (F)         32" to 122"           Atback Release         -110 to 10           Frequencies         20 Hz to 20 kHz           Q         0.10 to 10 to 10           Frequencies         20 Hz to 20 kHz           Q         -120B to 12dB           Q         1.6 to 10           HPF (6 dB, 12 dB, 13dB, 2ddB), High Sheft, Low Sheft, Peak, APF, BPF, Notch           Gain         -18 dB to +18 dB           Type         Low Sheft, Peak, APF, BPF, Notch           Q         0.1 to 10           Q         0.5 to 30 secidB           Gain         -18 dB to 12 dB           Ype         LodB L2 dB, 13dB, 13dB, 2dB), 14dB, 2dB), 14dB, 2dB, 14dB, 14dB, 13dB		Output Gain	0 dB to 18 dB			
Gate         Threshold         -50 dB to 0 dB           Attack / Hold / Release         1 ms to 8 seconds           Threshold         -50 dB to 0 dB           Expander         Threshold         -50 dB to 0 dB           Batio         1:1 to 20:1           Attack / Release         1 ms to 8 seconds           Delay Time (mS)         0.0 to 680.0 ms           Delay Time (mEers)         0.0 to 245.5           Delay Time (feet)         0.0 to 805.4           Temperature (C)         0" to 50"           Temperature (C)         0" to 50"           Temperature (F)         32" to 122"           Attack / Release         1.8 dB to 418 dB           Frequencies         20 Hz to 20 kHz           Q         0.1 to 10           Trequencies         20 Hz to 20 kHz           Q         0.1 to 10           Frequencies         20 Hz to 20 kHz           31-band Graphic EQ         Range         -12dB to +12dB           Type         1.6 dB, 2.4 dB, 1.6 dB, 1.6 dB           Type         1.6 dB, 2.4 dB, 1.6 dB, 1.6 dB           Frequency         20 Hz to 20 kHz           Q         0.1 to 10           Threshold         -50 dB to 0 dB           Frequency         <		Attack / Release	1 ms to 8 seconds			
Gate         Range         -90 dB to 0 dB           Attack / Hold / Release         1 ms to 8 seconds           Threshold         -50 dB to 0 dB           Batio         1:1 to 20:1           Attack / Release         1 ms to 8 seconds           Delay Time (mS)         0.0 to 680.0 ms           Delay Time (meters)         0.0 to 245.5           Delay Time (meters)         0.0 to 850.4           Temperature (C)         0" to 50"           Temperature (C)         0" to 50"           Temperature (F)         32" to 122"           Athack / Release         1.8 dB to +18 dB           Frequency         20 Hz to 20 kHz           Q         0.1 to 10           Frequencies         20 Hz to 20 kHz           Q         1.6 to 10           Frequencies         20 Hz to 20 kHz           AddB). LPF (6 dB, 12 dB, 18dB)         18dB, 24dB), High Sheff, Low Sheff, Eak, APF, BFF, Notch, Peak, HPF, BFF, Notch, Peak, APF, BFF, Sheff, Low Sheff, Feak, APF, BFF, Sheff, Sheff, Low Shefff, Low		Threshold	-50 dB to 0 dB			
Attack / Hold / Release         1 ms to 8 seconds           Expander         Threshold         -50 dB to 0 dB           Ratio         1:1 to 20:1         Ratio         1:1 to 20:1           Attack / Release         1 ms to 8 seconds         Delay Time (ms)         0.0 to 680.0 ms           Delay Time (meters)         0.0 to 245.5         Delay Time (meters)         0.0 to 805.4           Temperature (C)         0" to 50"         Temperature (F)         32" to 122"           4-band Equalizer         Gain         -18 dB to +18 dB           Frequency         20 Hz to 20 kHz         20 Hz to 20 kHz           Q         0.1 to 10         Frequencies         20 Hz to 20 kHz           31-band Graphic EQ         Range         -12dB to +12dB         16 db 10           Fiequency         20 Hz to 20 kHz         Q         1.6 to 10           HPF (6 dB, 12 dB, 18dB, 24dB), Heft (100 ms/dB to 0 dB           Frequency         20 Hz to 20 kHz         Q           Gain <td>Gate</td> <td>Range</td> <td colspan="2">-90 dB to 0 dB</td>	Gate	Range	-90 dB to 0 dB			
Expander         Threshold         -50 dB to 0 dB           Ratio         1:1 to 20:1           Attack / Release         1 ms to 8 seconds           Delay Time (mS)         0.0 to 680.0 ms           Delay Time (meters)         0.0 to 245.5           Delay Time (feet)         0.0 to 805.4           Temperature (C)         0 to 245.5           Delay Time (feet)         0.0 to 805.4           Temperature (F)         32° to 122°           BFF, Notch, Peak, HPF, LPF, High Sheft, Low Sheft         BFF, Notch, Peak, HPF, LPF, High Sheft, Low Sheft           Gain         -18 dB to +18 dB           Frequency         20 Hz to 20 kHz           Q         0.1 to 10           Prequencies         20 Hz to 20 kHz           31-band Graphic EQ         Range         -12dB to +12dB           Fitters         Gain         -18 dB to +18 dB           Frequency         20 Hz to 20 kHz         20 Hz to 20 kHz           Gain         -18 dB to +18 dB         16dB, 24dB), High Sheft, Low Sheft Peak, APF, BFF, Notch           Gain         -18 dB to +18 dB         12 dB, 18dB, 12 dB, 18dB, 12 dB, 18dB, 12 dB, 18dB, 24dB), LPF (6 dB, 12 dB, 18dB, 12 dB, 18dB, 24dB), High Sheft, Low Sheft Peak, APF, BFF, Notch           Gain         -18 dB to +18 dB         10 so cdB to 0 dB		Attack / Hold / Release	1 ms to 8 seconds			
Expander         Ratio         1:1 to 20:1           Attack / Release         1 ms to 8 seconds           Delay Time (mS)         0.0 to 880.0 ms           Delay Time (meters)         0.0 to 245.5           Delay Time (freet)         0.0 to 805.4           Temperature (C)         0° to 50°           Temperature (F)         32° to 122°           BPF, Notch, Peak, HPF, LPF, High Shelf, Low Shelf         Delay Time (meters)           4-band Equalizer         Gain         -1.8 dB to +18 dB           Frequencies         20 Hz to 20 kHz         Q           31-band Graphic EQ         Range         -12dB to +12dB           Q         0.1 to 10         16 to 10           Frequencies         20 Hz to 20 kHz         16 dB, 12 dB, 18dB, 24dB), LPF (6 dB, 12 dB, 18dB, 24dB), 1000ms/dB		Threshold	-50 dB to 0 dB			
Attack / Release         1 ms to 8 seconds           Delay Time (mS)         0.0 to 680.0 ms           Delay Time (meters)         0.0 to 245.5           Delay Time (meters)         0.0 to 2605.4           Temperature (C)         0 to 50°           Temperature (F)         3.2° to 122°           BPF, Notch, Peak, HPF, LPF, High Sheff, Low Sheff         0.0 to 20 kHz           4-band Equalizer         Gain         -18 dB to +18 dB           Frequency         20 Hz to 20 kHz           Q         0.1 to 10           Frequencies         20 Hz to 20 kHz           31-band Graphic EQ         Range         -12dB to +12dB           Frequencies         20 Hz to 20 kHz         0           1 fb to 10         Frequencies         20 Hz to 20 kHz           Q         1.6 to 10         10           HPF (6 dB, 12 dB, 18dB, 24dB), High Sheff, Low Sheff, Peak, APF, BPF, Notch         16 dB to +18 dB           Frequency         20 Hz to 20 kHz         0           Q         0.1 to 10         10           Threshold         -50 dB to 0 dB         10 sec/dB to 300 sec/dB           Release Time         10 sec/dB to 300 sec/dB         10 sec/dB to -50 dB           Q         4.5 to 10         VCA         Gain <td< td=""><td>Expander</td><td>Ratio</td><td>1:1 to 20:1</td></td<>	Expander	Ratio	1:1 to 20:1			
Delay Time (mS)         0.0 to 680.0 ms           Delay Time (meters)         0.0 to 245.5           Delay Time (feet)         0.0 to 805.4           Temperature (C)         0" to 50"           Temperature (F)         32" to 122"           BPF, Notch, Peak, HPF, LPF, High Shelf, Low Shelf         Gain           4-band Equalizer         Gain         -18 dB to +18 dB           Frequency         20 Hz to 20 kHz           Q         0.1 to 10           Frequencies         20 Hz to 20 kHz           31-band Graphic EQ         Range         -12dB to +12dB           Q         1.6 to 10         HFF (6 dB, 12 dB, 18dB, 18dB, 24dB), LPF (6 dB, 12 dB, 18dB, 18dB, 24dB), High Shelf, Low Shelf Peak, APF, BFF, Notch           Gain         -18 dB to +18 dB         Frequency         20 Hz to 20 kHz           Q         0.1 to 10         Threshold         -50 dB to 0 dB         18dB, 24dB), High Shelf, Low Shelf Peak, APF, BFF, Notch           Gain         -18 dB to +18 dB         Frequency         20 Hz to 20 kHz         0           Q         0.5 to 10         Q         -18 dB to 148 dB         18dB, 240 d		Attack / Release	1 ms to 8 seconds			
Delay Time (meters)         0.0 to 245.5           Delay Time (feet)         0.0 to 805.4           Temperature (C)         0" to 50"           Temperature (F)         32" to 122"           A-band Equalizer         Type         BPF, Notch, Peak, HPF, LPF, High Shef, Low Sheff           Gain         -18 dB to +18 dB         Frequency           20 Hz to 20 kHz         Q         0.1 to 10           Frequencies         20 Hz to 20 kHz         Q           31-band Graphic EQ         Range         -12dB to +12dB           Q         1.6 to 10         HPF (6 dB, 12 dB, 18dB, 24dB), High Sheft, Low Sheff, Peak, APF, BPF, Notch           Gain         -18 dB to +18 dB         Frequency         20 Hz to 20 kHz           Q         1.6 to 10         HPF (6 dB, 12 dB, 18dB, 24dB), High Sheft, Low Sheff, Peak, APF, BPF, Notch           Gain         -18 dB to +18 dB         Frequency         20 Hz to 20 kHz           Q         0.1 to 10         Threshold         -50 dB to 300 sec/dB           Feedback Silencer         Gain         -20 dB to 300 sec/dB           Gain         -20 dB to 20 kHz         Q           Q         0.4 to 10         10           VCA         Gain         to 6 dB           In Target         0 dB to -50 d		Delav Time (mS)	0.0 to 680.0 ms			
Delay         Delay Time (feet)         0.0 to 805.4           Temperature (C)         0° to 50°           Temperature (F)         32° to 122°           A-band Equalizer         Type         BPF, Notch, Peak, HPF, LPF, High Sheff, Low Sheff           Gain         -18 dB to +18 dB           Frequency         20 Hz to 20 KHz           Q         0.1 to 10           Stand Graphic EQ         Range         -12dB to +12dB           Q         1.6 to 10           Frequencies         20 Hz to 20 KHz           Q         1.6 to 10           Filters         Type           Gain         -18 dB to +18 dB           Type         24dB), LPF (6 dB, 12 dB, 18dB, 24dB), LOW to 10           Filters         Gain         -18 dB to +18 dB           Frequency         20 Hz to 20 KHz         Q           Q         0.1 to 10         100           Frequency         20 Hz to 20 KHz         Q           Q         0.1 to 10         100 sec/dB to 300 sec/dB           Release Time         10 sec/dB to 300 sec/dB         10 sec/dB to 0 dB           Release Time         10 sec/dB to 0 dB         Ratio         1:5		Delay Time (meters)	0.0 to 245.5			
Data y mini (cc)         0.0 is 0.0000           Temperature (C)         0° to 50°           Temperature (F)         32° to 122°           4-band Equalizer         Type         BPF, Notch, Peak, HPF, LPF, High Sheff, Low Sheff           Gain         -18 dB to +18 dB           Frequency         20 Hz to 20 kHz           Q         0.1 to 10           31-band Graphic EQ         Range         -12dB to +12dB           Q         1.6 to 10           Frequencies         20 Hz to 20 kHz           Q         1.6 to 10           Filters         Type           Type         18dB, 2ddB, High Sheff, Low Sheff Head, HPF, 6dB, 12 dB, 18dB, 2ddB, LPF (6 dB, 12 dB, 18dB, 2ddB), High Sheff, Low Sheff, Peak, APF, BPF, Notch           Gain         -18 dB to +18 dB           Frequency         20 Hz to 20 kHz           Q         0.1 to 10           Threshold         -50 dB to 0 dB           Release Time         10 sec/dB to 300 sec/dB           Gain         -20 dB to 0 dB           Release Time         10 sec/dB to 300 sec/dB           Automatic Level Control         Ratica           Increase Gain         1000ms/dB to 0 dB           Below Target <td>Delay</td> <td>Delay Time (feet)</td> <td>0.0 to 805.4</td>	Delay	Delay Time (feet)	0.0 to 805.4			
Temperature (F)         32° to 122°           Type         BPF, Notch, Peak, HPF, LPF, High Sheff, Low Shelf           Gain         -18 dB to +18 dB           Frequency         20 Hz to 20 kHz           Q         0.11 to 10           Stand Graphic EQ         Range           Frequencies         20 Hz to 20 kHz           Q         0.11 to 10           Frequencies         20 Hz to 20 kHz           Q         1.61 to 10           Frequencies         20 Hz to 20 kHz           Q         1.61 to 10           Ype         18dB, 24dB, High Sheff, Low Sheff, Low Sheff, Peak, APF, BPF, Notch           Gain         -18 dB to +18 dB           Frequency         20 Hz to 20 kHz           Q         0.1 to 10           Threshold         -50 dB to 0 dB           Release Time         10 sec/dB to 300 sec/dB           Below Target         0 dB to -50 dB           Automatic Level Controt         I	Donay		0° to 50°			
Type         BFF, Notch, Peak, HPF, LPF, High Shelf, Low Shelf           4-band Equalizer         Gain         -18 dB to +18 dB           Frequency         20 Hz to 20 KHz         Q           Q         0.1 to 10         Frequencies         20 Hz to 20 KHz           31-band Graphic EQ         Range         -12dB to +12dB         Q           Q         1.6 to 10         HPF (6 dB, 12 dB, 18dB, 24dB), LPF (12 dB, 18dB, 24dB), LPG (12 dB, 18dB, 24dB),		Temperature (C)	32° to 122°			
Type         DFF, Houth, Feak, NPF, LPF, High Sheff, Low Sheff           Gain         -18 dB to +18 dB           Frequency         20 Hz to 20 kHz           Q         0.1 to 10           31-band Graphic EQ         Range         -12dB to +12dB           Q         16 to 10           Frequencies         20 Hz to 20 kHz           Q         16 to 10           Filters         Prequencies           Filters         Type           Gain         -12dB to +12dB           Type         18dB, 24dB), LPF (6 dB, 12 dB, 18dB, 24dB), High Sheff, Low Sheff, Peak, APF, BPF, Notch           Gain         -18 dB to +18 dB           Frequency         20 Hz to 20 kHz           Q         0.1 to 10           Threshold         -50 dB to 0 dB           Release Time         10 sec/dB to 300 sec/dB           Gain         -20 dB to 0 dB           Frequency         20 Hz to 20 kHz           Q         4.5 to 10           VCA         Gain           Gain         -20 dB to 0 dB           Below Target         -30 dB to 0 dB           Below Target         -30 dB to 0 dB           Decrease Gain         1000ms/dB to 40ms/dB           Decrease Gain <t< td=""><td></td><td></td><td>BPE Notch Deak UDE</td></t<>			BPE Notch Deak UDE			
4-band Equalizer         Gain         -11 dB dB to +18 dB           Frequency         20 Hz to 20 KHz         Q         0.1 to 10           31-band Graphic EQ         Range         -12dB to +12dB         Q         1.6 to 10           HPF quencies         20 Hz to 20 KHz           Q         1.6 to 10         HPF (6 dB, 12 dB, 18dB, 24dB), LPF (6 dB, 12 dB, 18dB, 24dB)           Filters           Filters           Gain           Gain           Type           Gain		Туре	LPF, High Shelf. Low Shelf			
Frequency         20 Hz to 20 HHz           Q         0.1 to 10           31-band Graphic EQ         Frequencies         20 Hz to 20 KHz           31-band Graphic EQ         Range         -12dB to +12dB           Q         1.6 to 10         HPF (6 B, 12 dB, 18dB, 24dB), LPF (6 dB, 12 dB, 18dB, 24dB), High Sheif, Low Sheif, Peak, APF, BPF, Notch           Feedback Silencer           Gain           Feedback Silencer           A colspan="2">Col B to 0 dB           Feedback Silencer           Q           A colspan="2">Colspan= 2"           A colspan= 2"	4-band Equalizer	Gain	-18 dB to +18 dB			
Q         0.1 to 10           31-band Graphic EQ         Range         -12dB to +12dB           Q         1.6 to 10         HPF (6 dB, 12 dB, 18dB, 24dB), LPF (6 dB, 12 dB, 18dB, 24dB)           Filters           Filters           Feedback Silencer           Gain           Frequency           Q           O dB to 0 dB           Release Time           10 sec/dB to 300 sec/dB           Gain           Prequency           Q           Q           A frequency           Q           O dB to 0 dB           Release Time           Q           Q           Q           A frequency           Q           A frequencies	4-banu Equanzer	Frequency	20 Hz to 20 kHz			
Image         Difference           31-band Graphic EQ         Range         -12dB to +12dB           Q         1.6 to 10         HPF (6 dB, 12 dB, 18dB, 24dB), LPF (6 dB, 12 dB, 18dB, 24dB), LPF (6 dB, 12 dB, 18dB, 24dB), High Shelf, 18dB, 24dB), High Shelf, 18dB, 24dB), High Shelf, 18dB, 24dB, High Shelf, 18dB, 24dB, High Shelf, 20dB, 18dB, 24dB, High Shelf, 18dB, 24dB, 14dB, 24dB, 18dB, 24dB, 16d D, 02d Hz to 20 kHz           Gain         -18 dB to +18 dB           Frequency         20 Hz to 20 kHz           Q         0.1 to 10           Threshold         -50 dB to 0 dB           Release Time         10 sec/dB to 300 sec/dB           Gain         -20 dB to 0 dB           Frequency         20 Hz to 20 kHz           Q         4.5 to 10           VCA         Gain           Automatic Level Control         In Target         0 dB to -50 dB           Below Target         -30 dB to 0 dB           Below Target         -30 dB to 0 dB           Ducker         Source         Analog 1 to 8, Network 1 to 8, AES/EBU           Ducker         Threshold         -50 dB to 0 dB           Depth         -80 dB to 0 dB         Attack / Release		0	0 1 to 10			
31-band Graphic EQ         Range         -12dB to +12dB           Q         1.6 to 10           Q         1.6 to 10           HPF (6 dB, 12 dB, 12 dB, 13dB, 24dB), LPF (6 dB, 12 dB, 18dB, 24dB)           Filters         Gain         -18 dB to +18 dB           Frequency         20 Hz to 20 kHz         Q           Q         0.1 to 10         0.1 to 10           Threshold         -50 dB to 0 dB         Release Time           Release Time         10 sec/dB to 300 sec/dB           Release Time         10 sec/dB to 300 sec/dB           Release Time         10 sec/dB to 0 dB           Requency         20 Hz to 20 kHz           Q         4.5 to 10           VCA         Gain           Automatic Level Control         Ratio           In Target         0 dB to -50 dB           Below Target         -30 dB to 0 dB           Decrease Gain         1000ms/dB to 40ms/dB           Ducker         Source         Analog 1 to 8, Network 1 to 8, AES/EBU		Frequencies	20 Hz to 20 kHz			
Filters         Itality         Itality         Itality         Itality           Filters         Q         1.6 to 10           HPF (6 dB, 12 dB, 13 dB, 24 dB), LPF (6 dB, 12 dB, 18 dB, 24 dB), LPF (6 dB, 12 dB, 24 dB, LPF (6 dB, 12 dB, 24 dB, LPF (6 dB, 12 dB, 24 dB, Lep S, dB, 24 dB, LPF (6 dB, 12 dB, 20 d B to 10 dB           Feedback Silencer         Gain         -18 dB to +18 dB           Frequency         20 Hz to 20 kHz         Q           Q         0.1 to 10         0 dB to 0 dB           Frequency         20 Hz to 20 kHz         Q           Q         4.5 to 10         -50 dB to 0 dB           VCA         Gain	31-band Granhic EO	Range	-12dB to +12dB			
Filters         Type         HPF (6 dB 12 dB, 18 dB, 24dB), LPF (6 dB, 12 dB, 18 dB, 24 dB, 10 dB, 50	ST-ballu Graphic EQ		-120B to +120B			
Filters         Type         Type         Type           File         Gain         -18 dB, 24 dB, 14dB, 24dB, 18dB, 24dB, High Sheft, Low Sheft, Peak, APF, BPF, Notch           Gain         -18 dB to +18 dB           Frequency         20 Hz to 20 kHz           Q         0.1 to 10           Threshold         -50 dB to 0 dB           Release Time         10 sec/dB to 300 sec/dB           Release Time         10 sec/dB to 0 dB           Frequency         20 Hz to 20 kHz           Q         4.5 to 10           VCA         Gain         -∞ to 6 dB           In Target         0 dB to -50 dB           Below Target         -30 dB to 0 dB           Below Target         -30 dB to 0 dB           Ratio         1:5~20:1           Increase Gain         1000ms/dB to 40ms/dB           Decrease Gain         1000ms/dB to 40ms/dB           Decrease Gain         1000ms/dB to 40ms/dB           Decrease Gain         1000ms/dB to 0 dB           Decrease Gain         1000ms/dB to 0 dB           Deth         -80 dB to 0 dB           Depth         -80 dB to 0 dB           Depth         -80 dB to 0 dB           Depth         -80 dB to 0 dB           Attack		Q	HPE (6 dB 12 dB 18dB			
FiltersType18dB, 24dB, High Sheft, Low Sheff, Peak, APF, BPF, NotchGain-18 dB to +18 dBGain-18 dB to +18 dBFrequency20 Hz to 20 kHzQ0.1 to 10Threshold-50 dB to 0 dBRelease Time10 sec/dB to 300 sec/dBGain-20 dB to 0 dBFeedback SilencerGainQ4.5 to 10VCAGainQ4.5 to 10VCAGainBelow Target0 dB to -50 dBBelow Target-30 dB to 0 dBRatio1:5~20:1Increase Gain40ms/dB to 1000ms/dBDuckerSourceAnalog 1 to 8, Network 1 to 8, AES/EBUThreshold-50 dB to 0 dBDepth-80 dB to 0 dBDepth-80 dB to 0 dBDepth-80 dB to 0 dBDepth-80 dB to 0 dBDepth20 Lz to 20sHPF / LPF TypeButterworth 12dB, 18dB, 24dBHPF / LPF Frequency20 Hz to 20 kHzSignal GeneratorSignal Level RangeSignal Level Range-60dB to -10dB			24dB), LPF (6 dB, 12 dB, 18dB, 24dB), High Shelf, Low Shelf Pack APE PDF			
Filters Filters Gain Gain Gain Gain Gain Gain Gain Gain		Туре				
Frieds       Gain       -18 dB to +18 dB         Frequency       20 Hz to 20 kHz         Q       0.1 to 10         Threshold       -50 dB to 0 dB         Release Time       10 sec/dB to 300 sec/dB         Gain       -20 dB to 0 dB         Release Time       10 sec/dB to 300 sec/dB         Gain       -20 dB to 0 dB         Frequency       20 Hz to 20 kHz         Q       4.5 to 10         VCA       Gain         Automatic Level Control       In Target         Ratio       1:5~20:1         Increase Gain       40ms/dB to 1000ms/dB         Decrease Gain       1000ms/dB to 40ms/dB         Decrease Gain       1000ms/dB to 40ms/dB         Hold Time       0 s to 10s         Analog 1 to 8, Network 1 to 8, AES/EBU         Threshold       -50 dB to 0 dB         Depth       -80 dB to 0 dB         Attack / Release       0.2s to 20s         HPF / LPF Type       Butterworth 12dB, 18dB, 24dB         HPF / LPF Frequencies       20Hz to 20 kHz         Sine Wave Frequencies       20Hz to 20 kHz         Sweep Wave Start / End Frequencies       20Hz to 20 kHz         Sweep Wave Hold Time       50ms to 2000ms	Filtors		Notch			
Frequency         20 Hz to 20 kHz           Q         0.1 to 10           Threshold         -50 dB to 0 dB           Release Time         10 sec/dB to 300 sec/dB           Gain         -20 dB to 0 dB           Frequency         20 Hz to 20 kHz           Q         4.5 to 10           VCA         Gain         -∞ to 6 dB           In Target         0 dB to -50 dB           Below Target         -30 dB to 0 dB           Ratio         1:5-20:1           Increase Gain         40ms/dB to 1000ms/dB           Decrease Gain         1000ms/dB to 40ms/dB           Below Target         -30 dB to 0 dB           Below Target         -30 dB to 0 dB           Below Target         -30 dB to 0 dB           Below Target         -30 dB to 1000ms/dB           Decrease Gain         1000ms/dB to 1000ms/dB           Decrease Gain         1000ms/dB to 40ms/dB           Bource         Analog 1 to 8, Network 1 to 8, AES/EBU           Threshold         -50 dB to 0 dB           Depth         -80 dB to 0 dB           Depth         -80 dB to 0 dB           HPF / LPF Type         Butterworth 12dB, 18dB, 24dB           HPF / LPF Frequenccy         20 Hz to 20 kHz	i iitera	Gain	-18 dB to +18 dB			
Q         0.1 to 10           Threshold         -50 dB to 0 dB           Release Time         10 sec/dB to 300 sec/dB           Gain         -20 dB to 0 dB           Frequency         20 Hz to 20 kHz           Q         4.5 to 10           VCA         Gain         -∞ to 6 dB           In Target         0 dB to -50 dB           Below Target         -30 dB to 0 dB           Below Target         -30 dB to 0 dB           Ratio         1:5-20:1           Increase Gain         40ms/dB to 1000ms/dB           Decrease Gain         1000ms/dB to 1000ms/dB           Decrease Gain         1000ms/dB to 40ms/dB           Bolor Time         0s to 10s           Analog 1 to 8, Network 1 to 8, AES/EBU         AES/EBU           Ducker         Threshold         -50 dB to 0 dB           Betow Target         -80 dB to 0 dB           Depth         -80 dB to 0 dB           Depth         -80 dB to 0 dB           Depth         -80 dB to 0 dB           HPF / LPF Type         Butterworth           12dB, 18dB, 24dB         HPF / LPF Frequency         20 Hz to 20 kHz           Sine Wave Frequencies         20Hz to 20 kHz         Sweep Wave Start / End Frequencies         20Hz		Frequency	20 Hz to 20 kHz			
Feedback Silencer         Threshold         -50 dB to 0 dB           Gain         -20 dB to 0 dB         -20 dB to 0 dB           Q         4.5 to 10         Q           Q         4.5 to 10         Q           VCA         Gain         -∞ to 6 dB           In Target         0 dB to -50 dB         B           Below Target         -30 dB to 0 dB         B           Ratio         1:5~20:1         Increase Gain         40ms/dB to 1000ms/dB           Decrease Gain         1000ms/dB to 40ms/dB         Decrease Gain         1000ms/dB to 40ms/dB           Decrease Gain         1000ms/dB to 40ms/dB         Decrease Gain         Analog 1 to 8, Network 1 to 8, AES/EBU           Threshold         -50 dB to 0 dB         Depth         -80 dB to 0 dB           Attack / Release         0.2s to 20s         AES/EBU           Threshold         -50 dB to 0 dB         Depth         -80 dB to 0 dB           Attack / Release         0.2s to 20s         AES/EBU           Butterworth         12dB, 18dB, 24dB         HPF / LPF Type         Butterworth           Butterworth         12dB, 18dB, 24dB         HPF / LPF Frequencies         20Hz to 20 KHz           Sine Wave Frequencies         20Hz to 20 KHz         Sweep Wave Btat / End Frequencies<		Q	0.1 to 10			
Feedback Silencer         Release Time         10 sec/dB to 300 sec/dB           Gain         -20 dB to 0 dB         -20 dB to 0 dB           Q         4.5 to 10         Q           VCA         Gain         -∞ to 6 dB           In Target         0 dB to -50 dB         Below Target           Automatic Level Control         Ratio         1:5~20:1           Increase Gain         40ms/dB to 1000ms/dB         Decrease Gain           Hold Time         0s to 10s           Analog 1 to 8, Network 1 to 8, AES/EBU         Threshold           Depth         -80 dB to 0 dB           Depth         -80 dB to 0 dB           Peth         -80 dB to 0 dB           Depth         -80 dB to 0 dB           Attack / Release         0.2s to 20s           HPF / LPF Type         Butterworth           12dB, 18dB, 24dB         HPF / LPF Type           HPF / LPF Frequency         20 Hz to 20 KHz           Sweep Wave Start /         20 Hz / 20 KHz           Sweep Wave Hold Time         50ms to 2000ms           Signal Level Range         -60dB to -10dB		Threshold	-50 dB to 0 dB			
Feedback Silencer         Gain         -20 dB to 0 dB           Q         4.5 to 10           Q         4.5 to 10           VCA         Gain         -∞ to 6 dB           In Target         0 dB to -50 dB           Below Target         -30 dB to 0 dB           Ratio         1:5~20:1           Increase Gain         40ms/dB to 0 dB           Decrease Gain         1000ms/dB to 40ms/dB           Hold Time         0s to 10s           Analog 1 to 8, Network 1 to 8, AES/EBU         AES/EBU           Ducker         Threshold         -50 dB to 0 dB           Peth         -80 dB to 0 dB         AES/EBU           Threshold         -50 dB to 0 dB         AES/EBU           Depth         -80 dB to 0 dB         AES/EBU           HPF / LPF Type         Butterworth 12dB, 18dB, 24dB         AES/EBU           HPF / LPF Type         Butterworth 12dB, 18dB, 24dB         AES/EBU           HPF / LPF Frequency         20 Hz to 20 kHz         Sine Wave Frequencies         20Hz to 20 KHz           Signal Generator         Sine Wave Frequencies         20Hz to 20 KHz         Sweep Wave Hold Time         50ms to 2000ms           Signal Level Range         -60dB to -10dB         -10dB         -10dB		Release Time	10 sec/dB to 300 sec/dB			
Count         Count         Count           Frequency         20 Hz to 20 kHz           Q         4.5 to 10           Q         4.5 to 10           VCA         Gain	Feedback Silencer	Gain	-20 dB to 0 dB			
Q       4.5 to 10         Q       4.5 to 10         VCA       Gain         Automatic Level Control       In Target       0 dB to -50 dB         Below Target       -30 dB to 0 dB         Ratio       1:5~20:1         Increase Gain       40ms/dB to 1000ms/dB         Decrease Gain       1000ms/dB to 40ms/dB         Hold Time       0s to 10s         Analog 1 to 8, Network 1 to 8, AES/EBU         Threshold       -50 dB to 0 dB         Depth       -80 dB to 0 dB         Attack / Release       0.2s to 20s         HPF / LPF Type       Butterworth         12dB, 18dB, 24dB       HPF / LPF Frequency         Sine Wave Frequencies       20Hz to 20 KHz         Sweep Wave Start / End Frequencies       20Hz / 20KHz         Sweep Wave Hold Time       50ms to 2000ms         Signal Level Range       -60dB to -10dB		Erequency	20 Hz to 20 kHz			
VCA         Gain			4.5 to 10			
Mathematic Level Control         In Target         0 dB to -50 dB           Below Target        30 dB to 0 dB        30 dB to 0 dB           Ratio         1:5~20:1         Increase Gain         40ms/dB to 1000ms/dB           Decrease Gain         40ms/dB to 40ms/dB to 40ms/dB         Decrease Gain         1000ms/dB to 40ms/dB           Ducker         Bource         Analog 1 to 8, Network 1 to 8, AES/EBU         AES/EBU           Threshold         -50 dB to 0 dB         Depth         -80 dB to 0 dB           Crossover         HPF / LPF Type         Butterworth 12dB, 18dB, 24dB           HPF / LPF Frequency         20 Hz to 20 kHz         Sweep Wave Start / 20Hz / 20KHz           Sweep Wave Hold Time         50ms to 2000ms         Signal Level Range         -60dB to -10dB	VCA	Gain				
Automatic Level Control         Below Target        30 dB to -50 dB           Below Target        30 dB to 0 dB        30 dB to 0 dB           Ratio         1:5~20:1         Increase Gain         40ms/dB to 1000ms/dB           Decrease Gain         40ms/dB to 1000ms/dB         Decrease Gain         1000ms/dB to 40ms/dB           Ducker         Source         Analog 1 to 8, Network 1 to 8, AES/EBU           Threshold         -50 dB to 0 dB         Depth           Attack / Release         0.2s to 20s           HPF / LPF Type         Butterworth 12dB, 18dB, 24dB           HPF / LPF Frequency         20 Hz to 20 KHz           Sine Wave Frequencies         20Hz to 20KHz           Sweep Wave Start / End Frequencies         20Hz / 20KHz           Sweep Wave Hold Time         50ms to 2000ms           Signal Level Range         -60dB to -10dB			-∞ to 6 dB			
Below larget        30 dB to 0 dB           Ratio         1:5~20:1           Increase Gain         40ms/dB to 1000ms/dB           Decrease Gain         1000ms/dB to 40ms/dB           Hold Time         0s to 10s           Automatic Level Control         Hold Time           Decrease Gain         1000ms/dB to 40ms/dB           Bucker         Source           Analog 1 to 8, Network 1 to 8, AES/EBU           Threshold         -50 dB to 0 dB           Depth         -80 dB to 0 dB           Attack / Release         0.2s to 20s           HPF / LPF Type         Butterworth           12dB, 18dB, 24dB         HPF / LPF Frequency           Sine Wave Frequencies         20Hz to 20 KHz           Sweep Wave Start / End Frequencies         20Hz / 20KHz           Sweep Wave Hold Time         50ms to 2000ms           Signal Level Range         -60dB to -10dB	Automatic Level Control					
Katio         1:5~20:1           Increase Gain         40ms/dB to 1000ms/dB           Decrease Gain         1000ms/dB to 40ms/dB           Hold Time         0s to 10s           Hold Time         0s to 10s           Automatic Level Control         Source           Hold Time         0s to 10s           Analog 1 to 8, Network 1 to 8, AES/EBU           Threshold         -50 dB to 0 dB           Depth         -80 dB to 0 dB           Attack / Release         0.2s to 20s           HPF / LPF Type         Butterworth           12dB, 18dB, 24dB         HPF / LPF Frequency           Yeng Wave Frequencies         20Hz to 20 KHz           Sweep Wave Start / End Frequencies         20Hz / 20KHz           Sweep Wave Hold Time         50ms to 2000ms           Signal Level Range         -60dB to -10dB						
Increase Gain         40ms/dB to 1000ms/dB           Decrease Gain         1000ms/dB to 40ms/dB           Hold Time         0s to 10s           Hold Time         0s to 10s           Analog 1 to 8, Network 1 to 8, AES/EBU           Threshold         -50 dB to 0 dB           Depth         -80 dB to 0 dB           Attack / Release         0.2s to 20s           HPF / LPF Type         Butterworth 12dB, 18dB, 24dB           HPF / LPF Frequency         20 Hz to 20 KHz           Sine Wave Frequencies         20Hz to 20KHz           Sweep Wave Start / End Frequencies         20Hz / 20KHz           Sweep Wave Hold Time         50ms to 2000ms           Signal Level Range         -60dB to -10dB		Ratio	1:5~20:1			
Decrease Gain         1000ms/dB to 40ms/dB           Hold Time         0s to 10s           Analog 1 to 8, Network 1 to 8, AES/EBU         Analog 1 to 8, Network 1 to 8, AES/EBU           Ducker         Threshold         -50 dB to 0 dB           Depth         -80 dB to 0 dB           Attack / Release         0.2s to 20s           HPF / LPF Type         Butterworth 12dB, 18dB, 24dB           HPF / LPF Frequency         20 Hz to 20 kHz           Sine Wave Frequencies         20Hz to 20KHz           Sweep Wave Start / End Frequencies         20Hz / 20KHz           Sweep Wave Hold Time         50ms to 2000ms           Signal Level Range         -60dB to -10dB		Increase Gain	40ms/dB to 1000ms/dB			
Hold Time         0s to 10s           Analog 1 to 8, Network 1 to 8, AES/EBU           Threshold         -50 dB to 0 dB           Depth         -80 dB to 0 dB           Attack / Release         0.2s to 20s           HPF / LPF Type         Butterworth 12dB, 18dB, 24dB           HPF / LPF Frequency         20 Hz to 20 KHz           Signal Generator         Sweep Wave Start / End Frequencies         20Hz / 20KHz           Sweep Wave Hold Time         50ms to 2000ms           Signal Level Range         -60dB to -10dB		Decrease Gain	1000ms/dB to 40ms/dB			
Source         Analog 1 to 8, Network 1 to 8, AES/EBU           Ducker         Threshold         -50 dB to 0 dB           Depth         -80 dB to 0 dB           Attack / Release         0.2s to 20s           Attack / Release         0.2s to 20s           HPF / LPF Type         Butterworth 12dB, 18dB, 24dB           HPF / LPF Frequency         20 Hz to 20 KHz           Sine Wave Frequencies         20Hz to 20KHz           Sweep Wave Start / End Frequencies         20Hz / 20KHz           Sweep Wave Hold Time         50ms to 2000ms           Signal Level Range         -60dB to -10dB		Hold Time	Os to 10s			
Ducker         Threshold         -50 dB to 0 dB           Depth         -80 dB to 0 dB           Attack / Release         0.2s to 20s           Crossover         HPF / LPF Type         Butterworth 12dB, 18dB, 24dB           HPF / LPF Frequency         20 Hz to 20 kHz           Sine Wave Frequencies         20Hz to 20KHz           Sweep Wave Start / End Frequencies         20Hz / 20KHz           Sweep Wave Hold Time         50ms to 2000ms           Signal Level Range         -60dB to -10dB		Source	Analog 1 to 8, Network 1 to 8 AES/EBU			
Depth         -80 dB to 0 dB           Attack / Release         0.2s to 20s           Crossover         HPF / LPF Type         Butterworth 12dB, 18dB, 24dB           HPF / LPF Frequency         20 Hz to 20 kHz           Sine Wave Frequencies         20Hz to 20KHz           Sweep Wave Start / End Frequencies         20Hz / 20KHz           Sweep Wave Hold Time         50ms to 2000ms           Signal Level Range         -60dB to -10dB	Ducker	Threshold	-50 dB to 0 dB			
Attack / Release       0.2s to 20s         Crossover       HPF / LPF Type       Butterworth 12dB, 18dB, 24dB         HPF / LPF Frequency       20 Hz to 20 kHz         Sine Wave Frequencies       20Hz to 20KHz         Sweep Wave Start / End Frequencies       20Hz / 20KHz         Sweep Wave Hold Time       50ms to 2000ms         Signal Level Range       -60dB to -10dB		Depth	-80 dB to 0 dB			
Crossover         HPF / LPF Type         Butterworth 12dB, 18dB, 24dB           HPF / LPF Frequency         20 Hz to 20 KHz           Sine Wave Frequencies         20Hz to 20KHz           Sweep Wave Start / End Frequencies         20Hz / 20KHz           Sweep Wave Hold Time         50ms to 2000ms           Signal Level Range         -60dB to -10dB		Attack / Release	0.2s to 20s			
HPF / LPF Frequency         20 Hz to 20 kHz           Sine Wave Frequencies         20Hz to 20KHz           Sweep Wave Start / End Frequencies         20Hz / 20KHz           Sweep Wave Hold Time         50ms to 2000ms           Signal Level Range         -60dB to -10dB	Crossover	HPF / LPF Type	Butterworth 12dB, 18dB. 24dB			
Signal Generator         Sine Wave Frequencies         20Hz to 20KHz           Sweep Wave Start / End Frequencies         20Hz / 20KHz           Sweep Wave Hold Time         50ms to 2000ms           Signal Level Range         -60dB to -10dB		HPF / LPF Frequency	20 Hz to 20 kHz			
Signal Generator         Sweep Wave Bold Time         20Hz / 20KHz           Sweep Wave Hold Time         50ms to 2000ms           Signal Level Range         -60dB to -10dB		Sine Wave Frequencies	20Hz to 20KHz			
Signal Generator         End Frequencies         20Hz / 20KHz           Sweep Wave Hold Time         50ms to 2000ms           Signal Level Range         -60dB to -10dB		Sweep Wave Start /				
Sweep Wave Hold Time         50ms to 2000ms           Signal Level Range         -60dB to -10dB	Signal Generator	End Frequencies	20Hz / 20KHz			
Signal Level Range -60dB to -10dB		Sweep Wave Hold Time	50ms to 2000ms			
		Signal Level Range	-60dB to -10dB			



### **Remote Software**

Each and every one of the signal processors ingrained in the DMA series digital matrix amplifiers can be controlled using the included Windows software. This software is compatible with Windows XP, Windows Vista, Windows 7, Windows 8.1 and Windows 10

Installation and setup is simple, where the software simply seeks out your NT amplifier connected to your local area network. Using a pre-determined IP address, you're able to then activate the unit and control it via the software.

A number of function tabs can be found to the top of the software. Each of these can be used to access different routing and setup functions of the DMA amplifier's software. The DSP tab will be concerned mainly with setting all the processing for the input and output mixes. Available functions can all be found to the left of this page. These include comprehensive compressors/limiters, gates, expanders, delays, equalizers, filters, feedback silencers, variable controlled amplifiers, automatic level controls, duckers, crossovers and a signal generator. Each has a wide array of user-adjustable parameters that can significantly improve the operation of these functions.

Initial setup may be overwhelming considering the sheer number of parameters you have to work with. Thankfully we offer a number of predefined programs that can be utilized to help make it easier. In addition to this, any settings you yourself make - and find to be substantially useful - can be saved in your own user-defined scenes.

#### **Amplifier Specifications**

	DMA8413	DMA8425	DMA8813	DMA8825			
Low Z, Stereo Mode, all channels driven (RMS Power Ouput Per Channel)							
8Ω, 20Hz-20kHz 1%THD	80W	150W	80W	150W			
4Ω, 20Hz-20kHz 1%THD	130W	250W	130W	250W			
Low Z, Bridge Mode, all channels driven (RMS Power Output)							
8Ω, 20Hz-20kHz 1%THD	260W	500W	260W	500W			
70V, 100V distributed output (RMS Power Output Per Channel)							
20Hz-20kHz 1%THD	130W	250W	130W	250W			
Models Available	$4\Omega$ and $8\Omega$ / 70.7V Constant Voltage / 100V Constant Voltage Please consult your sales assistant for information on ordering the model that is best for you						
Line Current Draw (all channels driven)							
Line Current, Standby	190mA	190mA	190mA	190mA			
Line Current, Idle	540mA	540mA	540mA	540mA			
Line Current, Typical	2.85A	2.85A	2.85A	2.85A			
Line Current, Maximum	6.00A	6.00A	6.00A	6.00A			