Ideal for Auditoriums and Worship Venues

This Line Array system is designed with a digiMIX24 mixing console and nXp Series power amplifiers. This application uses one digiMIX24 (w/Dante-32) one nXp 1.52 (2 x 1500W), one nXp 1.54 (4 x 1500W), with a Dante® option (OPDC4).

Live Digital Mixing Console

The digiMIX24 is a 24-Channel Digital Mixing Console with two performance modes: 24x8 AUX channels, or 24x4 AUX channels and 24x4 SUB-group channels with 6x DCA fader groups. Dante® network audio installed.

DSP Processing and Power for Line Arrays

The nXp1.54 is a four-channel amplifier configured and drives the high-frequency and mid-frequency components. Crossover, limiting and delay DSP are available for speaker system management. This system has four (4) array elements. Four 16 Ohm drivers would be a 4 Ohm load and four 8 Ohm drivers would be a 2 Ohm load.

The nXp 1.54 selectable outputs can be loaded to 2 or 4 Ohms and deliver up to 375W on each HF and MF component.

• Extensive protection circuitry
• Remote Power On/Off w/ Disable
• Euroblock Inputs/Outputs
• AUX Outputs
• FIR Filtering

Digital Connectivity with Dante®

Audio transmitted over analog cables can be adversely affected by signal degradation due to electromagnetic interference, high-frequency attenuation, and voltage drop over long cable runs.

Using a stereo console with Dante, digital network output is connected to a router and distributed to the nXp power amplifiers. Digital audio provides several advantages over traditional analog audio distribution.

Power Plus Intelligence

All controlled with our proprietary Protea™ Software Suite, 32-bit SHARC DSP processing is standard equipment for comprehensive audio processing in nX amplifiers. Extensive DSP includes:

- 48kHz / 96kHz sampling rates
- FIR Filtering
- Matrix Mixer
- Comp/Limiter
- Autoleveler
- Gate
- Feedback Suppressor
- EQ 31-Band, Parametric, HP/LL,
- All Pass, Bandpass, FIR
- Crossover (2-way / 3-way / 4-way)
- Delay

Additional Digital Amplifiers

nXp1.52 Multi-Mode Amplifier w/ Dante

nXp1.54 Multi-Mode Amplifier w/ Dante

HF

MF

SUB

SUB

HF

MF

Wireless Router

Network Control

Ashly digiMIX iPad® App

digiMIX24 24-Input Digital Mixer w/ Dante

System diagrams are for reference only to illustrate typical installation practices. Any questions about the performance or configuration of our products should be directed to our technical support staff.

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