EVERYWHERE YOU GO, WHAT YOU SEE IS ENHANCED BY WHAT YOU *hear.* ASHLY

# ASHLY

Dante Network

Dante Interfaces [ 1 - 7 ]

Ashly ne8800 with Dante

Ashly ne8800 with Dante

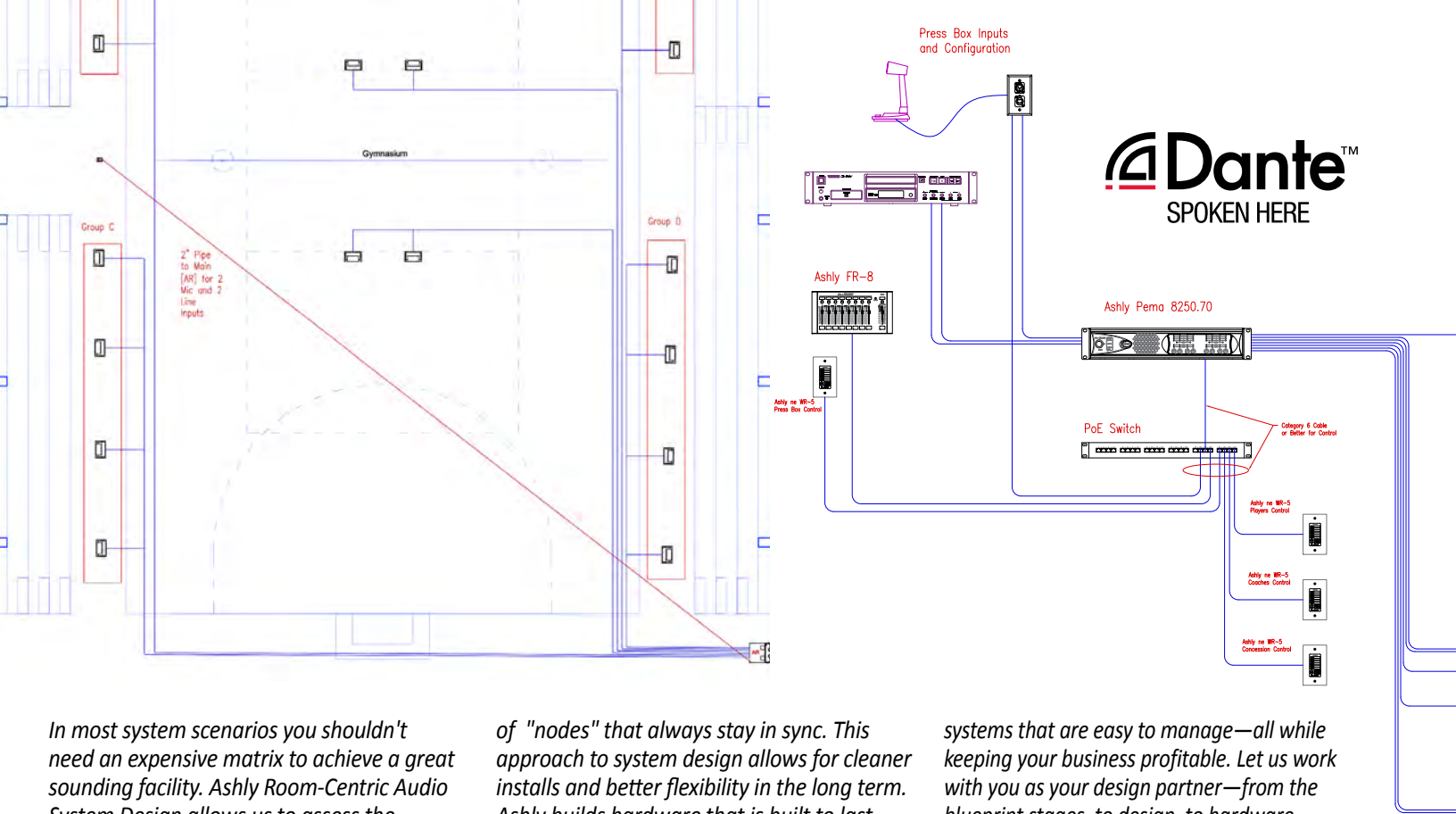Emergency Take Over

Ashly ne4400 with Dante

Cable Box 1
Cable Box 2
Cable Box 3
Cable Box 4

Analog Interfaces

Control PC

Control Network

Ashly nXe 4004 with Dante
Zone 1-4 Outputs

Ashly nXe 4004 with Dante
Zone 5-8 Outputs

Ashly nXe 4004 with Dante
Zone 9-12 Outputs

Ashly nXe 4004 with Dante
Zone 13-16 Outputs

Ashly nXe 4004 with Dante
Zone 17-19 Outputs

Ashly ne WR-5 Typical [7]

REC. SEC.     WC

OFFICE

OFFICE

BAPTISM Area

Small Sanctuary
and Over Flow

# ROOM-CENTRIC
## AUDIO SYSTEM DESIGN

**Press Box Inputs and Configuration**

**Dante™ SPOKEN HERE**

Gymnasium

Group C

Group D

2" Pipe to Main [AR] for 2 Mic and 2 Line Inputs

Ashly FR-8

Ashly ne WR-5 Press Box Control

Ashly Pema 8250.70

PoE Switch

Category 6 Cable or Better for Control

Ashly ne WR-5 Players Control

Ashly ne WR-5 Coaches Control

Ashly ne WR-5 Concession Control

In most system scenarios you shouldn't need an expensive matrix to achieve a great sounding facility. Ashly Room-Centric Audio System Design allows us to assess the challenges and requirements of each room independently, then customize a network of "nodes" that always stay in sync. This approach to system design allows for cleaner installs and better flexibility in the long term. Ashly builds hardware that is built to last and software that is easy to implement. Your clients will enjoy sound clarity and systems that are easy to manage—all while keeping your business profitable. Let us work with you as your design partner—from the blueprint stages, to design, to hardware— simply give us a call. Ashly has you covered.

# digiMIX24

- **24-Channel Digital Mixing Console**
- **Professional I/O Interface and Live Control Surface**
- **User-friendly Software and Intuitive Navigation**
- **Complete Digital Mixing Solution with iPad® Remote Control**

The NEW *digiMIX24 Digital Mixing Console* gives you complete control over your performance space. Light and portable, it's easy to transport or store away—whether you're mixing live bands, a high school musical, a worship service, or recording in a project studio, there are many applications where digiMIX24 feels right at home.

With its traditional analog feel, the *Live Control Surface* allows optimum control with real knobs and a live fader when selecting important functions, while offering conveniences of a responsive touchscreen, USB interfacing, and companion Apple iPad® App. Together, its the ideal mixing experience.

With two performance modes: 24x8 AUX channels, or 24x4 AUX channels and 24x4 SUB-group channels with 6x DCA fader groups, you have the flexibility to accommodate instruments, voices and signals from various sources. Also equipped with Class-A mic pre's designed exclusively by Ashly, so you know great sound is always a standard feature!

Use digiMIX24 as a command center to integrate live performance throughout an entire venue or facility. Add an optional *Dante*™ module to transmit and receive Dante network audio.

**Dante™**
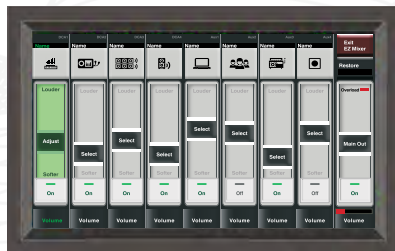SPOKEN HERE

## Key Specifications:

- *24 Total Inputs x 14 Mix Buses*
- *16 Discrete Ashly Class-A Mic/Line Combo Inputs*
- *24 x 8 Aux Channels or 24 x 4 Aux/4 Sub*
- *Stereo Solo any Channels or Mix Buses*
- *8 Separate Aux Outputs, 8 Separate Channel Inserts*
- *33 Channels of DSP Processing: Expander/Gate, Comp/Limiter, PEQ*
- *2 Stereo FX Processors: 12 Digital FX: Reverb, Delay, Chorus & more*
- *Live Control Surface with physical controls*
- *Responsive 7" LCD Color Touchscreen*
- *Intelligent Meters Display Input Level and Fader Volume Position*
- *Scene/Preset FX/GEQ: Save, Load, Copy*
- *Individual channel delays in 0.2ms increments, up to 300ms for easy sync of video and audio playback*
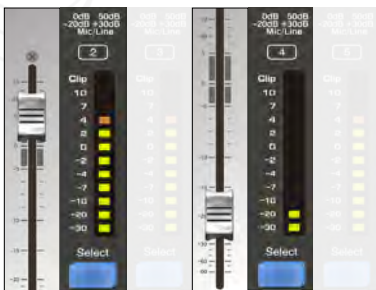
# MAIN FEATURES



### 7" LCD Touchscreen adds depth to control.

*Combined with the Live Control Surface, use the touchscreen to navigate sub menus and toggle to various settings quickly and intuitively.*



### Live Motorized Fader & Intelligent Meter Bridge shows all signal levels.

*Select any channel to assign the Live Motorized Fader to an individual channel. The Intelliegent Meter Bridge will not only display signal levels, but also all fader positions as shown above.*



### EZ-Mode for the non-technical user.

*Use digiMIX24 in a fixed installation and add EZ-Mode for users with no audio experience. Programmers can password-protect a very simple control interface that clients can easily understand and operate.*



### Add a Dante™ interface for network audio capability, or a USB interface for multi-track recording.

*With a Dante-32 interface, assign one or more channels of network audio to receive and integrate audio with any endpoint in the system. With a USB-32 interface connection, process 24-bit audio for recording or hooking up to a computer. (Field-installable option cards)*



## iPad® Remote Control!

*Ashly digiMIX* is a free app from the App Store for your iPad® or iPad® mini. Take your mix in the crowd to tweek live settings, to the stage to dial in your monitor system, or install EZ-Mode for your client to operate the system for future events. Whatever the application, get the most from your live mixing experience with digiMIX24!

Available on the App Store

# Protēa™
## Software Suite

# ((( net·work·able
## Ashly amplifiers and processors

Audio professionals find our software very intuitive and easy to navigate—and you will too. Protea™ Software Suite is designed for the nX Family of Amplifiers, Pema, the ne Series Amplifiers and Processors, the ne24.24M Matrix Processor, and Protea Processors.

The Protea Software Suite includes Protea™ Network-Enabled Software (PneS) for Ashly networked devices, and Protea™ System Software (PSS) for our legacy non-networked products.

No need to attend a one-week training class away from home to learn our software. Common sense layout of controls and features, on-line help, or a visit to the Technical Support page on our website provides answers to all of your questions.

Protea is compatible with Microsoft® Windows 10, 8, 7 (Vista/XP), 32 & 64 bit systems.

Service calls are expensive, particularly when they are required to make small changes in a sound system, like increasing the level in meeting room #2. Rather than dispatching a technician, Ashly *Net*Work*Able* sound systems allow you to use your computer and address a problem from any network location. Your clients will appreciate the instant response and notice that the long-term ownership costs of their pro audio system are lower and easy to maintain.

*Net*Work*Able* components (nXe, nXp, ne, & Pema™) allow the audio professional command and control of their installation from anywhere in the world via computer and a standard 10/100 Ethernet connection. IT professionals appreciate that Ashly gives them the ability to set-up a custom configuration quickly and easily.

## Ashly
# Remote

**Ashly Remote Key Features**:

• Design a custom remote interface for Apple iPad®
• Create, save, load and share custom designed remotes
• Import custom graphics as backgrounds
• Secure the remote by configuring edit or access security
• Control parameters in Networked Ashly products
• Use diagnostics to view communication viability
• Ashly Remote is free!

Each interface you design gives you custom control of your Ashly products to fit a specific installation—all from one place. Add components specific to your system by designing menu systems, faders with text labels, toggles, as well as visual elements like your client's logo and/or background images that fit a certain theme.

Ashly Remote is robust and flexible—it allows you to import individual pages from previous designs to create new ones so you'll never need to create the same page twice. Security features can also be activated and saved within your design for the final interface.

Choose from a variety of control functions along with read-back labels for displaying status during use: preset recall, gain/attenuation control, mute control, AB source select, logic output, meter filter level of PEQ, and amplifier standby.

When your design is complete, name and save your client's interface via iTunes. Simple and easy to understand, Ashly Remote gives your client the power to control their environment with a wireless remote interface with a common and familiar tool.

nX
series

# Remarkable Agility.

At Ashly, we take pride in building power amplifiers that adapt to their environment. Just as an agile athlete adapts to challenging conditions, so can a single nX amplifier in your sound application.

Start by meeting power requirements: Choose from 36, two-and four-channel amplifier models from 3000, 1500, 800, 400—and now **150 & 75 Watts per channel**. All with common feature sets.

Multi-mode operation is standard on all nX amplifiers. Set individual amplifier outputs to drive Low Impedance (2, 4, 8 Ohms), or 25V*, 70V, 100V Constant Voltage systems, via rear-panel located DIP-switches.

Add Ethernet (nXe) for monitoring and control, or add both Ethernet and Protea™ DSP (nXp). Expand onto a network with **Dante™, CobraNet®, or AES3** digital inputs.

Adapt Worldwide with a universal switch-mode power supply with PFC (Power Factor Correction). Reduce power consumption using Ashly EMS™ (Energy Management System) by triggering a sleep mode that draws <1W, which meets the most aggressive Energy Star® benchmark†. Follow pre-scheduled preset settings including levels and sources using RTC Event Scheduler (Real-Time Clock on nXe & nXp models).

Remote Control ready via the Ashly Remote iPad® app, and/or hardwired Ashly remotes including analog (as well as serial) and Ethernet on nXe and nXp models. Monitor fault conditions and adapt via Ethernet and the onboard Fault Log included in nXe and nXp models.

Protea™ DSP audio processing in nXp:

• Automatic Feedback-Suppressor
• Auto-Mixer
• Ambient Noise Compensation
• Dynamics processing with auto-ducker
• EQ & crossovers including FIR filters
• Time-alignment & tower delay
• Variable noise-masking with RTC
• Swept AC load-analysis with baseline logging



MADE IN THE USA

Dante™
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| Model | Ch. | @ 2Ω | @ 4Ω | @ 8Ω | @ 4Ω Bridged | 25V | 70V | 100V |
|---|---|---|---|---|---|---|---|---|
| nX-752 ▶ | 2 | 75W | 75W | 75W | 150W | 75W | 75W | 75W |
| nX-1502 ▶ | 2 | 150W | 150W | 150W | 300W | 150W | 150W | 150W |
| nX-754 ▶ | 4 | 75W | 75W | 75W | 150W | 75W | 75W | 75W |
| nX-1504 ▶ | 4 | 150W | 150W | 150W | 300W | 150W | 150W | 150W |

Safety/Compliance: cTUVus (pending), CE, FCC, RoHS

*Multi-Mode Operation*   *2 Ohm Stable*   *Ashly EMS™*   *Power Factor Correction*   *Protea™ Software*   *iPad® Remote Control*   *5-Year Warranty*

*25V applies to 150 & 75 Watt models only. † The <1W sleep mode can be defeated for applications that are subject to third-party performance standards that prohibit a sleep mode, including those used for Mass Notification and Emergency Communications Systems and those subject to ANSI/UL 2572.

# MULTI-MODE AMPLIFIERS



**MADE IN THE USA**

| Model | Ch. | @ 2Ω | @ 4Ω | @ 8Ω | @ 4Ω Bridged | 70V | 100V |
|-------|-----|------|------|------|--------------|-----|------|
| nX-1.52 ▶ | 2 | 1500W | 1500W | 1250W | 3000W | 1500W | 1250W |
| nX-3.02 ▶ | 2 | 3000W | 2000W | 1250W | 6000W | 2450W | 1250W |
| nX-1.54 ▶ | 4 | 1500W | 1500W | 1250W | 3000W | 1500W | 1250W |
| nX-3.04 ▶ | 4 | 3000W | 2000W | 1250W | 6000W | 2450W | 1250W |

Our line of high-output *nX Multi-Mode Amplifiers* feature lightweight, energy-efficient Class-D switching amplifier technology combined with a switch mode power supply.

Available in three product families *(nX, nXe, nXp)* these amps are designed to meet the most demanding live sound environments and fixed installation sound systems anywhere—stadiums, arenas, performance venues, worship spaces and convention centers.

The base model *nX Series* amplifier is pure power—offered in 2 and 4-channel configurations. The *nXe Series* adds Ethernet control, event scheduling, preset recall, AUX outputs, and can be customized to add digital options including AES3, CobraNet, and Dante. *Need more flexibilty? The nXp Series* has all the features of nXe, *plus* comprehensive signal processing using Protea™ DSP, as well as swept load impedance monitoring for system maintenance.

**All nX amplifiers feature**:

- 2 and 4-channel lightweight amplifiers with selectable low impedance or constant voltage output mode

- Rear panel DIP switches select low impedance (2, 4, and 8 Ohm), constant voltage (70V or 100V), high pass filter, limiter and input gain on each channel

- *Ashly Energy Management System+ (EMS)* automatic <1W sleep-mode (defeatable)

- Switch mode power supply automatically detects 120V or 240V AC operation

- Front panel power switch and level controls (can be disabled for security)

- Extensive protection circuitry, continuously variable cooling fans

- Multiple internal power supplies provide increased channel separation and reliability

- Remote DC level control on each input channel

- Neutrik® Combo XLR – 1/4" TRS jack plus Euroblock input connectors

- Neutrik® speakON® twist-locking loudspeaker connectors for security, safety, and reliability

- Neutrik® powerCON® detachable AC mains connector

- Safety/Compliance: cTUVus, CE, FCC, RoHS

Dante™
SPOKEN HERE

# nX series

**MADE IN THE USA**

| Model | Ch. | @ 2Ω | @ 4Ω | @ 8Ω | @ 4Ω Bridged | 70V | 100V |
|-------|-----|------|------|------|--------------|-----|------|
| nX-4002 ▶ | 2 | 400W | 400W | 400W | 800W | 400W | 400W |
| nX-8002 ▶ | 2 | 800W | 800W | 800W | 1600W | 800W | 800W |
| nX-4004 ▶ | 4 | 400W | 400W | 400W | 800W | 400W | 400W |
| nX-8004 ▶ | 4 | 800W | 800W | 800W | 1600W | 800W | 800W |

**nXe added features**:

• Ethernet Control and monitoring of amplifier functions, with front panel COM activity LED

• Serial data port for use with Ashly remote control devices, or optional RS-232 converter for third party controllers (INA-1)

• Use Protea™ Software to remotely disable all front panel controls, including the on/off switch, for a tamper-proof installation

• Real-Time Clock with Event Scheduler

• Instant Standby Mode 30% reduction in power consumption with on/off triggered by contact closure, software control, or event scheduler

• Programmable power-on delay

• Preset recall via contact closure, software control, remote control, or event scheduler

• Aux preamp outputs, and fault condition logic outputs

• Optional Cobranet™ or Dante™ network audio and AES3 digital audio input with pass-through

**nXp added features**:

• FIR Filter capable, dynamics, gain, equalization, 2x4 or 4x4 matrix mixer, crossover, delay, metering, and signal generator functions for test and noise masking applications

• Precision swept load impedance monitoring of each amplifier channel

Our extended nX family includes mid-sized amplifiers offering 400W and 800W models in 2 and 4-channel configurations as well.

When you choose Ashly nX, you choose a hand-built, US-made product backed by our team of engineers and an industry-leading 5-year warranty. At Ashly, we take pride in designing and building our amplifiers to exceed expectations and withstand the elements. Our goal is to give you years of audio clarity and uninterrupted service. So make a sound choice.

*† NOTE: The <1W sleep mode can be defeated for applications that are subject to third-party performance standards that prohibit a sleep mode, including those used for Mass Notification and Emergency Communications Systems and those subject to ANSI/UL 2572.*

**Dante™** SPOKEN HERE

# MULTI-CHANNEL AMPLIFIERS

pêma

| Model | Channels | Watts @ 4Ω | Constant Voltage Models | Onboard DSP |
|-------|----------|------------|-------------------------|-------------|
| **Pema 4125** ▶ | 4 | 125W | 25V, 70V, 100V | Protea |
| **Pema 4250** ▶ | 4 | 250W | 25V, 70V, 100V | Protea |
| **Pema 8125** ▶ | 8 | 125W | 25V, 70V, 100V | Protea |
| **Pema 8250** ▶ | 8 | 250W | 25V, 70V, 100V | Protea |

Pema's feature set allows System Integrators to replace a rack of amplifiers and signal processing equipment with a single 2-rack space unit in many scenarios. The combination of a 4 or 8-channel amplifier and 8-in x 8-out sophisticated matrix mixing and signal processing brings a new level of technology and innovation to your installation.

System designers can select either 125W or 250W output units that are a perfect fit for your install based on ceiling height, loudspeaker sensitivity and ceiling speaker density.

Pema is a restaurant or retail store-in-a-box with ambient noise control, automatic feedback suppression, event scheduling, a dedicated TEL/PBX input, dual RCA inputs and paging microphone inputs. It's a liturgical church-in-a-box with gain sharing automatic microphone mixing, auto feedback suppression and a maximum of 8 wired or wireless microphone inputs. For courtroom projects, a single Pema offers amplification, an auto mixer, auto feedback suppression, AUX outputs for recording and a built-in pink noise generator for masking sidebar discussions.

Pema Features:

• FIR Filter capable
• Dante™ and CobraNet® fully supported
• 4 or 8-channel amplifier: 125W or 250W per channel
• 8-in x 8-out sophisticated matrix mixing
• 8 built-in mic preamps
• Dual RCA and balanced Euroblock inputs
• Dedicated telephone/PBX input
• Post DSP AUX line level outputs
• Stereo summed to mono
• Adjustable HP/LP filters
• Event scheduling and real-time clock
• Gain sharing automatic microphone mixer
• Automatic feedback suppression
• Ambient noise compensation
• Built-in pink/white noise and sine wave generator
• Intuitive wall remotes
• Safety/Compliance: $_c$TUV$_{us}$, CE, FCC, RoHS

Dante™
SPOKEN HERE

# ne series

ne4250 & ne8250 Features:

- FIR Filter capable (pe version only)
- 10/100 Ethernet comes standard
- Protea DSP, AES3, CobraNet® and Dante™ options
- DC voltage remote gain control
- Ethernet remote control and monitoring
- Switch mode power supply, Class-D output
- Stepped, calibrated input attenuators
- Remote power turn on/off
- Disable all front panel controls via software
- Temperature sensitive variable speed fan with side-to-front airflow
- Selectable HPF frequencies on 25V, 70V and 100V models
- 4-stage level meters
- Output current and temp indicators
- Low Impedance, 25V, 70V, 100V models
- Safety/Compliance: ₑTUV₍ᵤₛ₎, CE, FCC, RoHS

| Model | Channels | Watts @ 4Ω | Watts @8Ω | Watts @ 8Ω Bridged | Constant Voltage Models | w/ DSP |
|---|---|---|---|---|---|---|
| ne4250 ▶ | 4 | 250W | 150W | 500W | 250W @ 25V, 70V, 100V | pe |
| ne8250 ▶ | 8 | 250W | 150W | 500W | 250W @ 25V, 70V, 100V | pe |

The *ne (networked-enabled) Series Amplifiers* are uniquely designed around an energy efficient Class-D platform with a switching power supply.

Connecting and controlling an amplifier for networked systems has now been simplified with ne Amplifiers. This line offers ease of use, setup and control using standard 10/100 Ethernet protocol and Protea™ ne Software. No special outboard control units are needed.

Choose either 4 or 8-channel packages rated at 250W per channel, with separate low impedance or constant voltage models. ne Series Amplifiers are offered in two separate platforms—the standard network amplifier or a network amplifier with an on-board Protea™ DSP Processor. Each can be customized for any installation by adding your choice of AES3 inputs, Dante™ or a CobraNet® card.

Dante™
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MADE IN THE USA

# NETWORK-ENABLED SIGNAL PROCESSING



**ne series**

MADE IN THE USA

## ne4400 ▶ 4x4 Processor  ne4800 ▶ 4x8 Processor  ne8800 ▶ 8x8 Processor

Connecting and controlling an audio processor for networked systems is simplified with our *ne Processors.* Complimentary to our amplifiers, our signal processors offer easy setup and control using standard 10/100 Ethernet protocol and Protea ne Software. No special outboard control units are needed. Standard units are analog line input/output format of *ne4400* (4x4), *ne4800* (4x8), and *ne8800* (8x8) with four option bays supporting network audio, AES3, and mic input options. The DSP signal processing library is extensive and utilizes multiple SHARC 32-bit processors with sample rates of either 48KHz or 96KHz.

Processing blocks include either a 4x4, 4x8 or 8x8 matrix mixer, a full array of graphic, parametric and all pass equalization, crossover filters including 8th-order Butterworth, Bessel, Linkwitz-Riley and notched Linkwitz-Riley.

*The Protea™ Software Suite* also includes an extremely advanced automatic feedback suppressor, gain sharing automatic microphone mixing, ambient noise sensing and level adjustment, autolevelers, compressors, matrix duckers, limiters, frequency-keyed noise gates, signal delay up to 1,365ms on every channel and your choice of sinewave, pink or white noise generators.

All programming is accomplished using standard 10/100 Ethernet or RS-232 protocol and Protea ne Software on a PC platform. Hot-plug software control allows you to plug any function into any channel block, even when running live audio so there's no recompiling necessary. Multi-level software security with password access assures you a tamper-proof audio system.

**Dante™**
SPOKEN HERE

### ne8800, 4800, & 4400 Features:

- FIR Filter Capable
- Optional inputs: CobraNet®, AES3, Dante, Microphone
- 10/100 Ethernet and RS-232 interface standard
- Extensive DSP available
- 24-bit A/D–D/A audio resolution
- 32-bit SHARC DSPs
- Sample rates of 48KHz and 96KHz
- Hot-plug software control
- Butterworth, Bessel, Linkwitz-Riley, and Notched-Linkwitz-Riley filters
- Advanced automatic feedback suppression
- Word Clock input and output
- Euroblock connectors for audio, preset recall, DC remote level control and data in/out
- Dedicated remote controls for level, logic I/O and programmable functions
- Third-party control friendly
- Input and output metering
- Multi-level security
- Safety/Compliance: $_c$TUV$_{us}$, CE, FCC, RoHS

**MADE IN THE USA**

## ne24.24M ▶ Matrix Processor with Protea™

ne24.24M Features:

• 10/100 Ethernet and RS-232 interface standard
• Extensive DSP available
• Easy and intuitive user interface
• Mic/line inputs
• 24-bit A/D–D/A audio resolution
• Up to 24-channels of audio processing
• 4x4 base unit configuration
• Expand inputs or outputs 4-channels per module
• Modules easily field installable
• Euroblock connectors for audio, preset recall,
  DC remote level control and data in/out
• 31 preset locations
• Dedicated remote controls for level, preset recall
  and programmable functions
• Third-party control-friendly
• Input and output metering viewable in dBu
• Multi-level security
• Safety/Compliance: $_c$TUV$_{us}$, FCC, CE, RoHS

Our widely-popular *Protea™ ne24.24M Matrix Processor* will more than satisfy your requirements for any zoned system. When your install requires input/output matrixing with signal processing it doesn't get much easier than programming your channels using *Protea™ ne Software* on your PC.

The ne24.24M uses modular expansion cards to provide up to 24-channels of audio matrixing and processing. The base unit offers a 4-input/4-output configuration. Each input and output expansion card has an individual DSP processor allowing you to expand the total input or output 4 channels of DSP processing at a time.

These cards are easily installed in the field without the need to reprogram the device.

Matrixing allows you to route any input to any output and control individual levels once they have been assigned. Fixed path architecture and extensive processing power per channel will reduce the amount of time it takes to set up your system.

An optional GPO Logic Card allows the ne24.24M to trigger projection screens, curtains or lights. The logic card is installed in place of a 4-input or 4-output card and occupies one of the four expansion slots.

# MULTI-MODE AMPLIFIERS

## TRA SERIES

MADE IN THE USA

| Model | Channels | Watts @ 4Ω | Watts @ 8Ω | Watts @ 8Ω Bridged | Constant Voltage Options |
|-------|----------|-----------|-----------|--------------------|--------------------------|
| TRA-2075 ▶ | 2 | 75W | 40W | 150W | 75W @ 25V, 70V, 100V |
| TRA-2150 ▶ | 2 | 150W | 80W | 300W | 150W @ 25V, 70V, 100V |
| TRA-4075 ▶ | 4 | 75W | 40W | 150W | 75W @ 25V, 70V, 100V |
| TRA-4150 ▶ | 4 | 150W | 80W | 300W | 150W @25V, 70V, 100V |

The *TRA Series* expands on the SRA's concept of "the right amp for the job." These 2 rack space amplifiers utilize our advanced, efficient amplifiers perfect for low impedance, 25V, 70V or 100V installations with modest power requirements.

Choose from 4 models available in 2 and 4-channel configurations, with power ratings of 75W and 150W per channel at 4 Ohms, 70V and 100V. All TRA audio controls are on the rear panel. A 6-step LED meter for each channel lets you monitor all levels. TRA amplifiers can drive 4 or 8 Ohm loads and 25V or 70V and 100V constant voltage lines simultaneously. Output transformers are internally mounted.

The 150W models are capable of driving 25V constant voltage lines using the direct coupled 4 Ohm output. TRA Series amplifiers incorporate a switch-mode power supply and Class-D amplifier circuitry, providing an extremely power-efficient solution.

All TRA Series amplifiers are convection-cooled, so there's little maintenance after the installation, and no annoying fan noise. Of course you get the reliability, superior sonic quality and rugged construction you've come to expect from Ashly.

### TRA Features:

- Convection cooling
- Extremely low noise
- Internally mounted constant voltage transformers
- Extensive protection circuitry
- 6-Step signal level and clip LEDs
- Level attenuators for each channel
- Euroblock inputs/outputs
- Selectable input sensitivity
- Remote power turn ON/OFF
- Adjustable turn-on delay up to eight seconds
- Safety/Compliance: cTUVus, CE, FCC, RoHS

# SRA SERIES

**MADE IN THE USA**
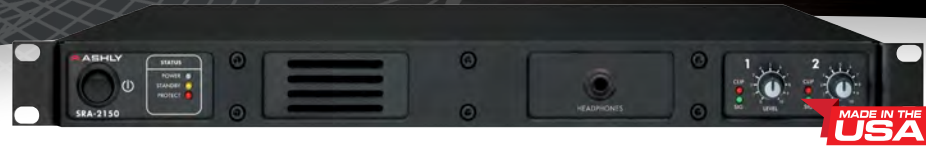
## SRA Features:

- Convection cooling
- Extremely low noise
- Extensive protection circuitry
- Level attenuators for each channel
- Signal present and clip alert status LEDs
- 2-channel versions have a stereo headphone jack
- Selectable input sensitivity
- Selectable HPF frequencies
- Euroblock inputs/outputs
- Normal or bridged mode switch on each channel
- Remote power turn ON/OFF
- Adjustable turn-on delay up to eight seconds
- Safety/Compliance: cTUVus, CE, FCC, RoHS

| Model | Channels | Watts @ 4Ω | Watts @ 8Ω | Watts @ 8Ω Bridged |
|-------|----------|------------|------------|--------------------|
| SRA-2075 ▶ | 2 | 75W | 40W | 150W |
| SRA-2150 ▶ | 2 | 150W | 80W | 300W |
| SRA-4075 ▶ | 4 | 75W | 40W | 150W |
| SRA-4150 ▶ | 4 | 150W | 80W | 300W |

Specifying the right power amp is often easier than finding it. Our *SRA Series* makes it a snap to get exactly what you need.

SRAs are advanced, efficient amplifiers perfect for installations with modest power requirements. Housed in a compact single rack space chassis and weighing only 10 lbs, designed to drive 4 or 8 Ohm loads. Choose from 4 models are available in 2 and 4-channel configurations with power ratings of 75W and 150W per channel.

The 150W models are also capable of driving 25V constant voltage lines directly. Switch mode power supplies and Class-D amplifier circuitry provide an extremely power efficient solution. They are convection cooled, so little maintenance is needed after the installation, and no annoying fan noise. Of course you get the reliability, superior sonic quality and rugged construction you've come to expect from Ashly.

# HIGH-PERFOMANCE AMPLIFIERS

# KLR
## SERIES

| Model | Ch. | Watts @ 2Ω | Watts @ 4Ω | Watts @ 8Ω | Watts @ 4Ω Bridged | Constant Voltage Options | Weight |
|-------|-----|-----------|-----------|-----------|-------------------|-------------------------|--------|
| **KLR-2000** ▶ | 2 | 1000W | 600W | 350W | 2000W | — | 23.5lbs |
| **KLR-3200** ▶ | 2 | 1600W | 1100W | 650W | 3200W | 800W @ 70V | 24lbs |
| **KLR-4000** ▶ | 2 | 2000W | 1400W | 850W | 4000W | — | 26.5lbs |
| **KLR-5000** ▶ | 2 | 2500W | 1700W | 1000W | 5000W | — | 28lbs |

Our *KLR Series* are high-efficiency, high-power 2-channel amplifiers that are the ideal choice for high-output speaker systems, line arrays, dual 18" subwoofers and much more. If you think you need to use an expensive, European amplifier to get a clean, stable, quiet amplifier—think again.

Exceptionally lightweight for their class, all KLRs are designed in standard 2RU enclosures.

KLRs are quiet with signal-to-noise ratio ratings from >108 dB to >110 dB across all models. They're also versatile, each with a 3-position gain switch for both channels, a 3-position mode switch (bridged, stereo or parallel mono) and a 3-position 12dB/oct HPF switch (30Hz, 50Hz or off).

Packed with features, KLRs make a great choice when you need a value engineered sound system.

KLR Features:

• Stable down to 2 Ohms
• Balanced inputs via 3-pin Euroblock
• Combo XLR/TRS connectors
• Neutrik® speakON® type output connectors
• Switch-mode power supply with extensive protection circuitry
• On/Off limiter switch
• Forced-air cooled (front-in, rear-out)
• Removable dust filters, easy to clean
• Front-mounted attenuators
• Removable amp handles for permanent installation
• Optional locking front panel volume knobs
• Safety/Compliance: cCSAus, CE, FCC, RoHS

| Model | Channels | @ 4Ω | Constant Voltage Options |
|---|---|---|---|
| **TM-360** ▶ | 3 | 60W | 25V, 70V* |
| **TM-335** ▶ | 3 | 35W | 25V, 70V |

Like the TM-360, the *TM-335 Mixer/Amplifier* is a 3-input 35W version. It features your choice of mic, line, dual RCA sum-to-mono or telephone inputs. Rear panel DIP switches set input priorities and trigger the ducking circuit. Rack mount the TM-335 using the accessory RMK-335.

TM-335 Features:

• Inputs 1-2-3 are mic/line, 2-3 sum stereo inputs
• Mute priority
• Rear panel switches select stereo summing
• Optional rack kit available
• Transformer-isolated output offers low impedance (4 Ohm) or constant voltage (25V or 70V)
• Safety/Compliance: <sub>c</sub>CSA<sub>us</sub>, CE, FCC, RoHS

The *TM-360 Mixer/Amplifier* is a 3-input, 60W unit that offers input and output flexibility coupled with energy efficiency. The TM-360 uses a Class-D amplifier topology for added energy efficiency. A front panel 3.5mm TRS mini-jack makes it easy to plug-in a back-up music source, such as an MP3 player. Rear panel DIP switches allow you to select the mix going to each zone. There are 2 separate zone outputs: a 1W output for driving a remote speaker, and a preamp output that can be used to drive a separate amplifier.

The TM-360 automatically switches into a stand-by mode if no audio input is received for 25 minutes, thus reducing the current draw. The transformer-isolated output offers a choice of low impedance (4 Ohm) or constant voltage (25V or 70V).*

TM-360 Features:

• One balanced mic/line/tel input with phantom power, 2 balanced line level inputs w/stereo RCA sum-to-mono inputs
• Mute priority of inputs
• Mini-jack input on front panel disables channel 2-input
• Switches for zone 2 assign, mute priority, low-cut filter, phantom power
• 600 Ohm pre-out for external amplifiers
• Zone 2-output, 1W / 8 Ohms
• Power saving standby mode: audio inactivity or contact closure
• Rack mount kit (model RMK-360) available as an optional accessory
• Safety/Compliance: <sub>c</sub>CSA<sub>us</sub>, CE FCC, RoHS

*The 230V International version features Low Impedance, 70V or 100V output options.*

## FR-8 ▶ 8-Assigned Mixer/Gain Blocks, Remote Control
## FR-16 ▶ 16-Assigned Mixer/Gain Blocks, Remote Control

The *FR-8* and *FR-16* are Ethernet devices that provide fader-based remote-level control for Ashly ne products having DSP capabilities. The FR-8 controls up to 8-user assigned inputs, outputs, or mixer outputs, and the FR-16 controls up to 16.

Ashly products that can be controlled are: nXp amplifiers, ne24.24M, ne 2-channel Power Amplifiers w/ DSP, ne Multi-Channel Power Amplifiers w/ DSP, ne4800/8800 DSP Processors, and all Pema™ Power Amplifiers.

FR Features:

• Use along with neWR-5 wall remote
• IEEE 802.3af power-over-Ethernet (PoE, Class 2)
• Automatic IP addressing
• Assignable fader scaling
• Mute/unmute buttons with signal or A/B input source select option
• Assignable signal level LED breakpoints
• Communication failure indicator
• User-defined labels per channel
• Panel lock-out contact closure
• Wall mount with or without standard North American wall boxes or portable tabletop use

## RD-8C/RW-8C ▶ Remote Level Controller

The RD-8C is a desktop controller using an XLR serial data connector, while the RW-8C is electronically the same but mounts as a wall plate into a standard 4-gang electrical box and uses a Euroblock connector. There are 8-channel faders and one master fader on the RD-8C, each with a level control and an on/off button with a green LED to indicate status.

The RD-8C and RW-8C are remote level controllers which can be used on Ashly products with a serial data connector, including Ethernet-based Ashly ne signal processors, nXp amplifiers, ne amplifiers with DSP capabilities, and Pema amplifiers.

MADE IN THE
USA

## WRe ▶ European Wall Remote Controls

### INA-1 ▶ Inline RS-232 Adapter

The Ashly Inline RS-232 Adapter allows Ashly products that do not have an RS-232 port, but do have a serial data connector, to connect to RS-232 control systems. The preferred method to control Protea ne products is with either TCP or UDP via Ethernet, however this may not always be possible in some installations where a non-Ethernet control system is used.

## WR Series ▶ Wall Remote Controls for all Network Amplifiers/DSP Processors

Control your system from any location with our remote controls. These devices fit in standard North American wall boxes and use low gauge wire for hook-up (shown above from left to right).

*WR-1* is a dual potentiometer remote volume control for DC level control. The *WR-1.5* remote has a single potentiometer plus a 4-position rotary preset recall switch. *WR-2* allows selection of one of four presets via interlocking pushbutton switches. *WR-5* is a programmable remote control for Ashly amps and processors that have a serial data connector. *neWR-5* is a programmable Ethernet based remote control unit for Ashly networked products. Connecting and powering the neWR-5 is done using standard Cat-5 cable and an IEEE 802.3af Power over Ethernet (PoE) source.

WR Features:

• Visual indication verifies changes
• Preset recall and preset scroll
• Input & matrix mix gain control (WR-5, neWR-5)
• Output gain control (WR-5, neWR-5)
• Channel mute (WR-5, neWR-5)
• Zone source select (WR-5, neWR-5)
• Logic high/low (WR-5, neWR-5)
• Lock-out feature (neWR-5)
• Serial data = 4-wire cable (WR-5, RD-8C, RW-8C)
• Ethernet = Cat-5 cable (neWR-5)

**GQX**

## GQX-3102 ▶ 2-Channel, 31-Band Graphic Equalizer

Ashly EQs are well known as the go-to brand for analog processors for any concert application or commercial pro install. The *GQX-3102* features 2-channels of 31-band 1/3-octave EQ, tunable hi-pass filter circuit, switch-selectable cut or boost of either 6dB or 15dB and 10-segment, 2-color LED meter displays, and clip LEDs. The full-throw 45mm faders have a metal-shaft with the center detented position utilized as an "on/off" switch for that filter to minimize any possible degradation in signal noise levels.

Our graphic EQs utilize Wein-Bridge filters using precision components and our specially designed summing amplifiers provide extremely accurate response, low noise, negligible distortion, and excellent immunity to magnetic fields.

GQX Features:

• Ashly Differentiator: *Tunable Hi-Pass Filter (HPF)*
• 45mm, detented metal shaft faders
• 12dB/octave, tunable hi-pass filter
• True Constant "Q" design
• Tight tolerance components for precise ≤3% filter accuracy
• Precision Wein-bridge filters
• Switchable boost/cut range of ±6 or ±15dB
• 10-position, 2-color LED level meter
• Peak LED indicators
• Balanced inputs, Servo-balanced outputs
• XLR, TRS and Euroblock connections
• Universal 100–240VAC internal power supply
• Rider-friendly
• Safety/Compliance: cTUVus, CE, FCC, RoHS

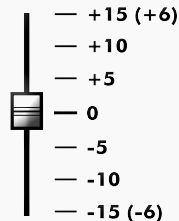*Ashly Differentiator:*
*"Tunable Hi-Pass Filter (HPF)"*
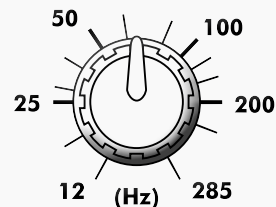


What separates Ashly EQs from the others? Ashly know-how and quality components that give you a more "musical" sound in your mix.

Our "Tunable Hi-Pass Filter" gives you environmental control of low frequency response and caters to the source output and size of the venue.

If you're set up for voice-only audio, set your HPF to 180Hz to better control low frequency which support the speaker. Say you're a DJ using turntables—roll off your HPF to 50Hz to reduce the undesirable rumble for clean, responsive lows to give just the right amount of "thump".

# MQX

**MQX-2310** ▶ 2-Channel, 31-Band Graphic Equalizer

— +15 (+6)
— +10
— +5
— 0
— -5
— -10
— -15 (-6)

Our MQX short-throw faders are unique because we give you increased +/- 15dB boost/cut from a 25mm fader. Complete control with plenty of range. No other EQ in this category gives more than MQX.

The MQX (and GQX) also have tight tolerance components that provide uniform and predictable filter response.

The center detents across our faders give you a true "flat" filter by disengaging the bandpass filter completely from the signal path. The result is a clean and quiet mix!

We're big on consistency and quality on all of our EQs—past and present. Our EQs are made with the best components and are built to last.

The *MQX- 2310* uses the same precision filter design and summing circuitry as the GQX Series, with each filter exhibiting true Constant "Q" response. The center detented position of each fader acts as an on/off switch for its filter, ensuring absolutely flat response and high signal-to-noise ratio. A full 25mm throw makes use of every last bit of panel space so that small panel size doesn't compromise resolution.

The additional range and incredible accuracy of this fader allows for ±15 dB of amplitude adjustment on each individual filter. The MQX-2310 features 2-channels of 1/3 octave EQ.

MQX Features:

• Ashly Differentiator: *+15/-15dB in 25mm Fader*
• 25mm, detented metal shaft faders
• Switchable 40Hz, 18dB/octave hi-pass filter
• Tight tolerance components for precise ≤3% filter accuracy
• Precision Wein-bridge filters
• Constant "Q" design
• Switchable boost/cut Range of ±6 or ±15 dB
• 10 position, 2-color LED level meter
• Balanced inputs
• Servo-balanced outputs
• XLR, TRS and Euroblock connections
• Universal 100–240VAC internal power supply
• Rider-friendly
• Safety/Compliance: $_c$TUV$_{us}$, CE, FCC, RoHS

**CLX**

## CLX-52 ▶ Stereo Peak Comp/Limiter

The *CLX-52 Peak Comp/Limiter* is a 2-channel, universal peak-sensitive automatic gain control (AGC) device with exceptional audio performance, precise controls and rugged durability. The CLX-52 uses an "infinite soft-knee" characteristic and timing based on compression ratio. This, combined with a dual release time constant, allows program density to increase as the input signal increases. The result is a peak controller with very low noise, smooth sound, and excellent stereo tracking without the usual "constricted" limiter sound.

CLX Features:

• Ashly Exclusive *Double Release Time Constant*
• Peak compression circuitry
• Compression ratio variable from 2:1 through infinity:1
• Precision 11-step LED gain reduction, input, and output meters
• Over 60dB of gain reduction
• Extremely low noise and distortion
• Calibrated threshold control
• Detector loop patch point
• Input/output meter switch
• Stereo tie switch
• Active balanced inputs
• Servo-balanced outputs
• XLR, TRS 1/4", and Euroblock connectors
• Universal 100-240VAC internal power supply
• Safety/Compliance: $_c$TUV$_{us}$, CE, FCC, RoHS

*Ashly Exclusive Feature:*
*"Double Release Time Constant"*



Attack                Release
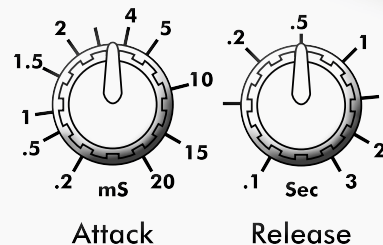
*A unique feature of CLX-52 is the incorporation of a Double Release Time Constant. When a conventional compressor/limiter is adjusted for slow release times, transients such as mic "pops" may cause a severe reduction in gain followed by a slow fade up, making the action of the limiter very obvious.*

*With the Double Release Time Constant, release from gain reduction after a brief transient is always fast, with a slower release after a sustained overdrive.*

# XR



**XR-1001** ▸ Stereo 2-Way, Mono 3-Way Crossover

## Ashly Exclusive Feature: "Response Control"

*This control adjusts the damping of the filter affecting the response shape of the filters at the crossover point. This helps offset the inaccuracies inherent in typical loudspeakers, thereby helping you to achieve a flat system response.*
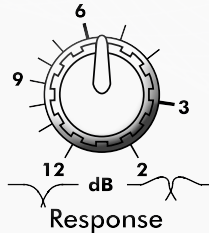


*Dial calibrations refer to the amount of attenuation effected by the filter at the crossover frequency, i.e., a setting of 3dB means that the filter's hi-pass and low-pass outputs are each "rolled off 3dB at the crossover point". This describes Butterworth filter response, or a gentle 3dB peak at the crossover point when the two filter output signals overlap.*

*To obtain a flat signal, or "Linkwitz-Riley" response through the crossover region, set the Response control to "6". This attenuates each output of the filter by 6dB at the crossover point (two identical signals added together yield a +6dB increase). To obtain a notch at the crossover point, turn down the response control past "6" to best suit your needs.*

The *XR-1001 Crossover* is based upon a powerful state-variable filter circuit guaranteeing that two adjacent frequency band outputs always remain in phase. Our crossover offers a number of useful features, including continuous tuning, a response control, and a unique output stage that maintains low noise at any level setting. The XR-1001 also include a 200:1 tuning range, individual output mute switches, and both TRS and XLR connectors.

Like other Ashly products, the XR-1001 features low noise and distortion, active balanced inputs, a peak level indicator, a precision regulated power supply, protection against abnormal input or output conditions, and rugged mechanical construction. Conservative design and an unusually thorough procedure for quality control have earned Ashly a reputation for dependability in the recording, sound reinforcement, and broadcast fields.

XR Features:

• Ashly Exclusive *Variable Filter Response Control*
• 24dB/octave slope
• Mode switch for stereo 2-way or mono 3-way operation
• Low frequency summed mono output
• ÷10 range switch on both channels
• XLR and 1/4" inputs and outputs
• 20Hz third-order hi-pass filter
• Peak overload warning lights
• Individual level control and mute switch on all outputs
• Active-balanced inputs
• Servo-balanced outputs
• XLR and TRS 1/4" connectors
• Universal 100–240VAC internal power supply
• Safety/Compliance: $_c$TUV$_{us}$, CE, FCC, RoHS

# MX

**MADE IN THE USA**

**MX-206** ▶ 6-Ch, Stereo Mic Mixer
**LX-308B** ▶ 8-Ch, Line Level Mixer
**MX-406** ▶ 6-Ch, Stereo Mic/Line Mixer
**MX-508** ▶ 8-Ch, Stereo Mic/Line Mixer

Ashly's 40 year history in the pro audio industry began with custom designed and built mixing consoles, which soon evolved into rack-mount signal processing equipment. In a world of throw-away products, make an investment in these high-performance mixers that will last you for years to come.

### MX-206 Features:

- High-gain mic preamps (60dB)
- Transformer isolated +24dBm 600 Ohm balanced XLR-mono output
- Stereo line in/out
- Pan control on each channel
- Stereo headphone jack with level control
- 20dB input pad switch
- +48V phantom power
- Universal power supply

### LX-308B Features:

- True stereo 8-channel line level mixer, doubles as a 16-channel mono mixing unit
- Use alone or as an expander or sub mixer for larger consoles
- All balanced inputs
- Front panel level, pan controls and individual channel muting switches w/LED status indicators
- Channels 1 and 2 are switchable for either mic or line level input

### MX-406 Features:

- High-gain mic preamps (60dB)
- 2-band EQ on each input
- 6-channel inserts
- 20dB input pad switch
- +48V phantom power
- Universal power supply
- AUX send and return
- Stereo line in/out
- Input level and pan controls on each input

### MX-508 Features:

- 3-band channel EQ with sweepable mid frequency center
- 2 AUX sends per channel
- Insert jacks on each channel
- Independent mono output with level control
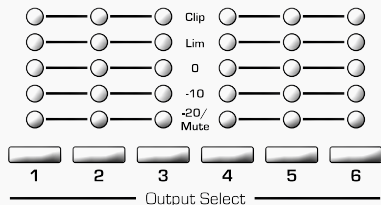- Transformer isolated +24dBm 600 Ohm balanced XLR-stereo program outputs

All mixers meet Safety/Compliance: $_c$TUV$_{us}$, CE, FCC, RoHS

# Protēa™



**Ashly Differentiator:**
*"Front Panel Parameter Control"*



*Functionality that is intuitive comes standard on our Protea™ DSPs. Not only are the 3.6 and 4.8 are excellent sounding digital speaker processors, they also have some "old school" features that many sound pros have made mention of.*

*The front panel interface allows quick access to all control parameters by offering dedicated function buttons, eliminating the need for hidden sub-menus.*

**Protea™ 3.6** ▶ 3-Input, 6-Output System Processor  **Protea™ 4.8** ▶ 4-Input, 8-Output System Processor

The *3.6SP* is a 3-in by 6-out digital system processor; the *4.8SP* is the 4-in by 8-out model. With active front panel controls and extremely intuitive user interface the SP's are at home in a dynamic live sound environment. The USB inputs (front and rear panel) provide set-up via Ashly's Protea™ Software Suite, making the SP's a great choice for permanent installations.

A backlit 2 x 20-character LCD displays channel and function settings. Dedicated front panel controls provide access to all audio functions and system tools. There is a rear panel RS-232 port in addition to the USB ports.

Advantages of using the software include greater preset capacity, and a very intuitive visual representation of the audio routing and control process. A 6-foot (1.8m) USB-A to USB-B cable is provided.

Protea™ 3.6 & 4.8 Features:

• Front Panel Parameter Control
• Single rack space with XLR audio connections
• Crossover, EQ, delay and limiter functions
• Outputs assignable to any input
• Front panel or PC programming and control with 4 levels of security
• USB and RS-232 interface
• Third-party control friendly
• Balanced inputs and outputs
• Parametric filters and comp/limiter controls feedback
• Linkwitz-Riley, Bessel and Butterworth filters
• 12, 18, 24 and 48dB/octave slopes
• Parametric EQ: 1/64th to 4 octave range
• 682ms input and output delay (1,364ms total)
• Limiter on each output
• Individual input and output metering
• Safety/Compliance: CE, FCC, RoHS

**ASHLY.COM** in f y

Ashly Audio, Inc.
847 Holt Road
Webster, NY 14580 USA
+1-800-828-6308 US toll free
+1-585-872-0010 tel
+1-585-872-0739 fax
sales@ashly.com

# ASHLY
## POWER & DSP

**POWER AMPLIFICATION | SIGNAL PROCESSING | AUDIO NETWORKING & CONTROL**