

Product Information

PROTEA 3.24CL DIGITAL CROSSOVER/SYSTEM PROCESSOR



Three inputs and six outputs coupled with an incredibly easy front panel user interface, the Ashly Protea System II 3.24CL Digital Crossover/System Processor has all the audio processing tools you need for precise crossover, system sound control and superior sonic quality.

Each input allows you to control gain, delay and six filters (each of them your choice of parametric, low or high shelf). Each output permits you to set your crossover frequencies and may be assigned to any one or a combination of inputs. Additionally, you can program four filters (each of them your choice of parametric, low or high shelf), control delay for time delay adjustments, adjust output gain, reverse polarity and control a compressor/limiter for speaker protection. All this in one rack space with XLR input and output connections.

- Three Inputs Six Outputs
- Extremely Intuitive User Interface
- Programmable by Front Panel
- Superior Sonic Quality
- One Rack Space
- Outputs Assignable to Any Input
- · Crossover, EQ, Delay and Limiter Functions
- Linkwitz-Riley, Bessel and Butterworth Filters
- 12, 18, 24 and 48dB/Octave Slopes
- Parametric EQ: 1/64th to 4 Octave Range
- Input and Output Delay
- Limiter on Each Output
- Individual Input and Output Metering
- Balanced Inputs and Outputs
- XLR Audio Connections
- Factory Loaded/Editable Presets
- Four Levels of Security

Common Applications

Conventional PA Systems Stereo 3-way low-mid-high system Up to three 2-way monitor mixes Up to six single monitor mixes

Portable and Small Club Venues Stereo 2-way for full range, compact, portable loudspeakers and aux fed sub

Houses of Worship L-C-R configurations Multi-zoned systems

SPECIFICATIONS:

Active balanced, 18kOhms Input: Max. input level: +20dBu

Active balanced, 1000hms Output: +20dBu

Max. output level:

20Hz-20kHz, $\pm 0.25dB$ Frequency response: <0.01% @1kHz, +20dBu THD.

Dynamic range: >110dB (20Hz-20kHz) unweighted

Output noise: <-90dBu unweighted

EQ filters: Number:

Parametric Range:

Bandwidth: 1/64th octave to 4 octave

1/24th octave

Frequency resolution:

High-shelf

Selectable 6 or 12dB/octave (1 high shelf, 2 high shelf)

+15/-30dB, 0.1dB increments

6 per Input, 4 per output

Frequency range: 19.7Hz to 2kHz

+/-15dB, 0.1dB increments Range:

Low-shelf Slope:

Range:

Slope:

Slope:

Selectable 6 or 12dB/octave (1 low shelf, 2 low shelf) 3.1886kHz to 20.1587kHz +/-15dB, 0.1dB increments

Crossover filters

High pass filter Type:

Frequency range:

Linkwitz-Riley, Bessel, Butterworth 12, 18, 24 and 48dB/octave

Frequency range: Off to 21.983.3kHz, 245 step increments

Low pass filter

Linkwitz-Riley, Bessel, Butterworth Type:

Slope: 12, 18 and 24dB/octave

Frequency range: Off to 21.983.3kHz, 245 step increments

Input maximum delay: 682.5ms Output maximum delay: 21.33ms Increment: 20µs

Input and output gain: Range: +12/-40dB, 0.1dB increments

Polarity: 0 or 180 degrees (selectable in

the output gain stage)

Compressor/limiter:

Threshold: -20dBu to +20dBu, 1dB

increments

Ratio: 1.2:1 to Infinity

(1.2, 1.5, 2., 3, 4, 6, 10, 20, Infinite:1) 0.5ms to 50ms per dB Attack:

Release: 10ms to 1 sec. per dB Range: 20Hz to 10.6kHz

Processor:

Input A/D: 24 bit Output D/A: 24 hit

24 bit, 56 bit accumulator Processor:

Sample rate: 48kHz Propagation delay: 1.46ms

80-260VAC, 30W Power requirements:

Shipping weight: 10 lbs

Dimensions: 19.0" L x 1.75" H x 6.0" D

I/O connectors:

Environmental: 40-120 deg. F, non-condensing

