

## 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:

|                        |   |
|------------------------|---|
| Input:                 | Active balanced, 18kOhms  |
| Max. input level:      | +20dBu  |
| Output:                | Active balanced, 100Ohms  |
| Max. output level:     | +20dBu  |
| Frequency response:    | 20Hz-20kHz, $\pm 0.25$ dB   |
| THD:                   | <0.01% @1kHz, +20dBu  |
| Dynamic range:         | >110dB (20Hz-20kHz) unweighted                                    |
| Output noise:          | <-90dBu unweighted  |
| EQ filters:            |   |
| Number:                | 6 per Input, 4 per output   |
| Parametric             |   |
| Bandwidth:             | 1/64th octave to 4 octave   |
| Range:                 | +15/-30dB, 0.1dB increments                                       |
| Frequency resolution:  | 1/24th octave   |
| High-shelf             |   |
| Slope:                 | Selectable 6 or 12dB/octave<br>(1 high shelf, 2 high shelf)       |
| Frequency range:       | 19.7Hz to 2kHz  |
| Range:                 | +/-15dB, 0.1dB increments   |
| Low-shelf              |   |
| Slope:                 | Selectable 6 or 12dB/octave<br>(1 low shelf, 2 low shelf)         |
| Frequency range:       | 3.1886kHz to 20.1587kHz   |
| Range:                 | +/-15dB, 0.1dB increments   |
| Crossover filters      |   |
| High pass filter       |   |
| Type:                  | Linkwitz-Riley, Bessel, Butterworth                               |
| Slope:                 | 12, 18, 24 and 48dB/octave  |
| Frequency range:       | Off to 21.983.3kHz, 245 step increments                           |
| Low pass filter        |   |
| Type:                  | Linkwitz-Riley, Bessel, Butterworth                               |
| Slope:                 | 12, 18 and 24dB/octave  |
| Frequency range:       | Off to 21.983.3kHz, 245 step increments                           |
| Delay                  |   |
| Input maximum delay:   | 682.5ms   |
| Output maximum delay:  | 21.33ms   |
| Increment:             | 20 $\mu$ s  |
| 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<br>(1.2, 1.5, 2., 3, 4, 6, 10, 20, Infinite:1) |
| Attack:                | 0.5ms to 50ms per dB  |
| Release:               | 10ms to 1 sec. per dB   |
| Range:                 | 20Hz to 10.6kHz   |
| Processor:             |   |
| Input A/D:             | 24 bit  |
| Output D/A:            | 24 bit  |
| Processor:             | 24 bit, 56 bit accumulator  |
| Sample rate:           | 48kHz   |
| Propagation delay:     | 1.46ms  |
| Other:                 |   |
| Power requirements:    | 80-260VAC, 30W  |
| Shipping weight:       | 10 lbs  |
| Dimensions:            | 19.0" L x 1.75" H x 6.0" D  |
| I/O connectors:        | XLR   |
| Environmental:         | 40-120 deg. F, non-condensing                                     |



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