

### Architects Specifications

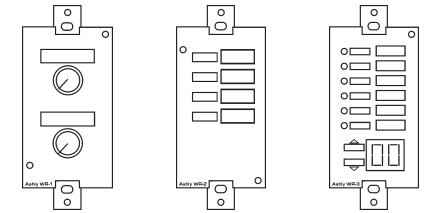
#### Protea System II 24.24M

The base unit digital matrix processor shall consist of four inputs and four outputs with a dedicated DSP processor and A/D, D/A circuitry. All programming shall be accomplished using Protea System Software to be supplied with each device and a PC using a Windows™ 95, 98, 2000/XP, ME or NT platform. The installer shall have the ability expand the processor's input or output configuration by installing input or output module cards for a total of twenty-four audio channels with fifteen specific configurations. Each input or output card shall have its own DSP processor for all digital signal processing blocks and shall have their own A/D or D/A circuitry. The installer shall be allowed to expand the base unit's total inputs or outputs four channels at a time. The input and output cards shall be field installable without the need to replace or reprogram the device's firmware and shall automatically recognize the base unit's new configuration and display the new configuration upon power up. The 24.24M Matrix Processor's firmware shall be supported by flash making the device capable of field upgrades using Ashly Audio's Protea System Software.

Each input channel shall include fixed architecture processing blocks of Mic Preamp with +48V Phantom Power, Gain, Delay, fifteen EQ Filters, Gate, Autoleveler and Ducker. Inputs shall have the option to be configured to accommodate either mic or line levels. Each output channel processing block shall include fixed architecture processing blocks of a Cross Point Mixer, HPF/LPF, Delay, fifteen EQ Filters, Gain and Limiter. The cross point mixer

in the output section shall allow for routing any input to any output at any level and mute any input at any output without affecting the true input configuration. Each input and output shall have individual mute capability.

The matrix processor shall have a maximum in/out level of +20dBu. Frequency response shall be  $\pm 0.25$ dB 20Hz to 20kHz. Dynamic Range shall be greater than 110dB (20-20KHz, unweighted) and SMPTE intermodulation distortion or THD shall be less than 0.01% at 1KHz, +20dBu. Input impedance shall be 18K ohms active servo-balanced. Output impedance shall be active balanced, 112 ohms. Inputs and outputs shall be balanced type on euroblock connectors. LED indicators shall show signal level, clip, limit threshold and mute conditions. Full programming and control of the unit shall be via the front or rear panel accessible RS-232 serial ports using Ashly Protea System Software. There shall be 35 factory presets that may be programmed by the user and stored in the device's internal memory. The matrix device shall have separate rear panel euroblock connections providing remote control for DC voltage level, recall of presets via momentary or on/off switching and a data-in/data-out port. These remote ports shall be accessible for control from either dedicated remote controls or third party devices. There shall also be a three level security lockout feature. The digital matrix processor shall weigh 13 lbs net and mount in a standard 19" rack using 2 spaces (3.50" high). The power requirement shall be 90-240VAC, 50-60Hz, 40W. The unit shall be the Ashly Audio Protea System II 24.24M Matrix Processor.



Remote Controls - WR-1, WR-2, WR-3

#### Features:

- 24-bit A/D-D/A audio resolution
- 24-bit/100 MHz (x2) digital signal processing
- 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
- Mic/Line inputs
- Intuitive user interface
- 35 preset locations
- RS-232 computer interface
- Three dedicated remote controls for Level, Preset Recall and Programmable Functions
- AMX Compatible NetLinX Control
- Input and output metering viewable in dB or VU
- Password protection of system operation
- Five year worry-free warranty

