ARCHITECTS SPECIFICATIONS

Protea System II 4.24G

The programmable graphic equalizer shall consist of four independent channels of 24 bit digital graphic equalization. Each channel shall consist of 28 bands centered on standard ISO frequencies at intervals of 1/3 octave and covering a frequency range of 31Hz to 16kHz. Frequency bands shall be activated by individual up and down tactile switches. The range of equalization per band shall be ±15dB in 0.5dB increments. The equalizer shall have a gain of unity with all bands set at zero, and shall have a maximum in/out level of +20dBu. Frequency response shall be ±.25dB 20Hz to20kHz. 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 balanced. Output impedance shall be 200 ohms. Inputs and outputs shall be balanced type on XLR and 1/4" phone jacks. Individual filters shall be of a constant Q reciprocal filter design. Boost and cut characteristics shall be fully symmetrical. The equalizer shall also include on each channel a 24dB per octave high pass filter adjustable from 20Hz to 10.6KHz, a 24dB per octave low pass filter adjustable from 33Hz to 20KHz, a full function, pre/post switchable compressor/limiter with adjustable threshold, ratio, attack and release controls, and a time delay capable of a maximum of 1.364 seconds adjustable in 20us increments. A 240 X 64 fluorescent back-lit LCD display will show all parameter, function and utility information. LED indicators shall show signal present and mute conditions. Channel gain shall be adjustable over a range of +6dB to - infinity in 0.5db increments. Control of the unit shall be from the front panel, via the optional 4.24RD remote control, via RS-232 serial port using Ashly Protea System Software, or via MIDI. The equalizer shall weigh 14 lbs net and mount in a standard 19" rack using 2 spaces (3.5" high). The power requirement shall be 90-125VAC (180-250VAC, switchable), 50-60Hz, 30W. The unit shall be an Ashly Audio Protea System II 4.24G.

The optional remote controller shall operate all functions of the Protea unit using push-buttons and shall be phantom powered from the Protea unit so that no batteries or AC line cords are needed while controlling the Protea unit. Connections between the controller and Protea unit shall be accomplished using standard XLR mic cables. A 240 X 64 fluorescent backlit LCD display shall show all parameter, function and utility information. LED indicators shall show channel and mute conditions. The remote controller shall have a low profile for desk-top operation. The remote controller shall be the model Protea System II 4.24RD.

- 24 Bit A/D - D/A Audio Resolution
- 24 Bit/100 MHz (x2) Digital Signal Processing
- Four 28-Band 1/3 Octave Channels of EQ
- Programmable Compressor/Limiter
- Programmable Delay up to 1.364 Seconds
- Programmable High and Low Pass Filters
- Balanced XLR and 1/4" Inputs and Outputs
- Intuitive User Interface
- Large, 240 X 64 Fluorescent Backlit Display
- Linkable Channels
- Constant Q/Reciprocal Filter Design
- +/- 15dB Boost and Cut, 0.5dB increments
- 128 Preset Locations, 50 Scenes
- RS-232 Computer Interface
- Full MIDI Implementation
- Input and Output Metering
- Password Protection of System Operation
- 5-Year Worry-Free Warranty
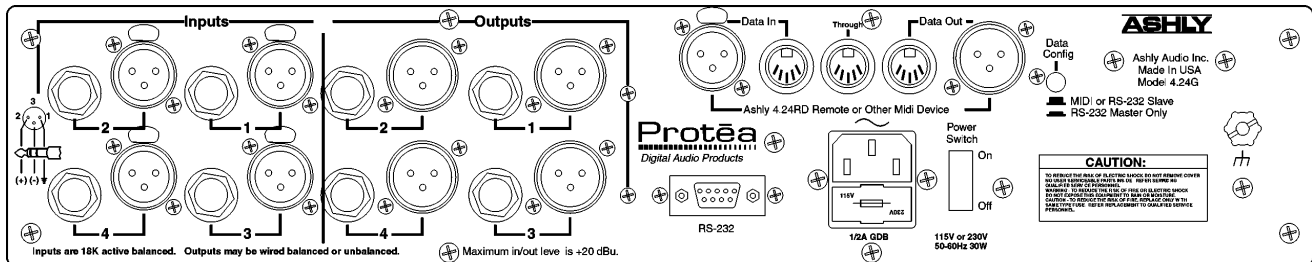
General Specifications 4.24G

INPUT		COMPRESSOR/LIMITER	
Type:	Active Balanced	Threshold:	-20dBu to +20 dBu
Impedance:	18 K ohms		1dB increments
Max. Level:	+20dBu	Ratio:	1.2:1 to Infinity
			(1.2:1, 1.5:1, 2:1, 3:1, 4:1, 6:1, 10:1, 20:1, inf:1)
OUTPUT			
Type:	Pseudo-Balanced	Attack:	0.5ms to 50ms per dB
Impedance:	200 ohms		(.5, 1, 2, 5, 10, 20, 50ms)
Max. Level:	+20dBu	Release:	10ms to 1 sec per dB
			(10, 20, 50, 100, 200, 500ms, 1 Sec)
Frequency Response:	±.25dB 20Hz-20kHz		
THD (20Hz-20kHz):	<.01% @ 1KHz, +20dBu	**HPF**	24dB/Octave
Dynamic Range:	>110dB (20Hz-20KHz) unweighted	Range:	20Hz to 10.6Khz
Output Noise:	<-90dBu unweighted		
		LPF	24dB/Octave
FILTERS		Range:	33Hz to 20.1KHz
Type:	Constant Q, Reciprocating		
Number:	4 X 28	**DELAY**	
Filter Spacing:	1/3 Octave	Maximum Delay:	1.364 seconds
Range:	±15dB, 0.5dB Increments	Increment:	20us
Q:	Fixed, 3.2		
		PROCESSOR	
Power Requirements:	90-125VAC, 50-60Hz, 30W	Input A to D	24 Bit
	180-250VAC 50-60Hz, 30W	Output D to A	24 Bit
Shipping Weight:	14 lbs	Processor	24 Bit, 56 Bit Accumulator
Dimensions:	19"L x 3.5"H x 8"D	Sample Rate	48KHz
I/O Connectors:	XLR, 1/4"	Propagation Delay	1.46ms
Environmental	40-120 deg. F Noncondensing		

Notes: 0 dBu = .775 V RMS

General Specifications: 4.24RD

Shipping Weight: 5 lbs., Dimensions: 16.9"L x 1.65"H x 5.36"D, I/O Connectors: XLR, Power: Phantom

Rear Panel 4.24G

Rear Panel 4.24RD

Applications:

PA Systems - FOH & Monitors, Concerts, Outdoor Festivals, Churches, Sports Stadiums, Auditoriums, Studios, Dance/Night Clubs, Lecture Halls

Misc: Protea System Software for PC control of the Protea 4.24G may be downloaded free from our website. Use it to control the 4.24C, 4.24D, 4.24G, 4.24GS, 4.24PS, 2.24GS and 2.24PS. Download it now to preview the capabilities of the Protea System II Digital Products. Protea System Software operates on Windows™ 95, 98, 2000, NT, ME and XP platforms.

Ashly manufactures a complete and comprehensive line of Graphic and Parametric Equalizers, Electronic Crossovers, Power Amplifiers, Compressor-Limiters, Mixers, and Amplifier Input Options. Please call, write or visit our web site for information on any of these Ashly Products.

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