

The Protea 24.24M Matrix Processor uses modular expansion cards to provide up to twenty-four channels of audio matrixing and processing. The base unit offers a four-input four-output configuration. Each input and output expansion card has an individual DSP processor allowing you to expand the base unit's total inputs or outputs four channels at a time. These cards are easily installed. 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.

Input channel processing blocks include Mic Preamp with Phantom Power, Gain, Delay, 15 EQ Filters, Gate, Autoleveler and Ducker. Output channel processing blocks consist of a Cross Point Mixer, HPF/LPF, Delay, 15 EQ Filters, Gain and Limiter. The cross point mixer in the output section allows you to route any input to any output at any level and mute any input at any output without affecting the true input configuration. The HPF/LPF block offers Bessel, Butterworth and Linkwitz-Riley filters with 12, 18, 24 and 48dB octave slopes.

Euroblock connectors for audio, preset recall, dc remote level control and data in/out connections are on the rear panel. Standard 9-pin RS-232 data connectors are located on the front and rear panel to allow all functions to be controlled either by a PC or a dedicated control system.

• Euroblock Connectors

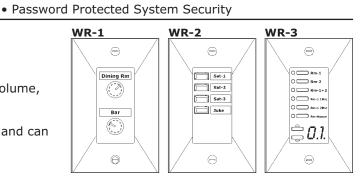
+48V Phantom Power

Applications:

Corporate Boardrooms, Restaurants, Courtrooms, Houses of Worship, Left/Center/Right Theatres, Conference Centers, Auditoriums or anywhere a zoned system requires signal processing

- Base Model Four Inputs Four Outputs
- Expandable To 24 Total Channels
- Inputs Configurable for Mic or Line Level
- 35 Internal Presets
- Protea System Software Control via RS-232
- Wall Receptacle Remote Control Accessories
- WR-1 Remote Volume Control (Two volume pots)WR-2 Remote Contact Closure (Four preset switches)WR-3 Active Remote Control (Active input volume, output volume, preset recall)

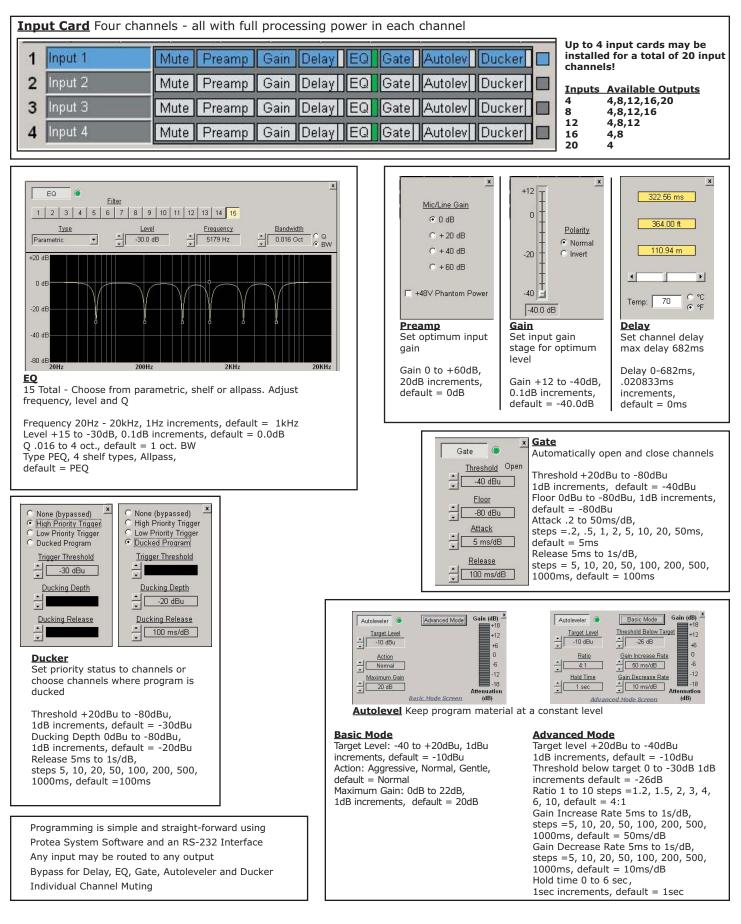
Wall remotes are designed to fit in standard electrical boxes and can be ordered with white or beige faceplates.



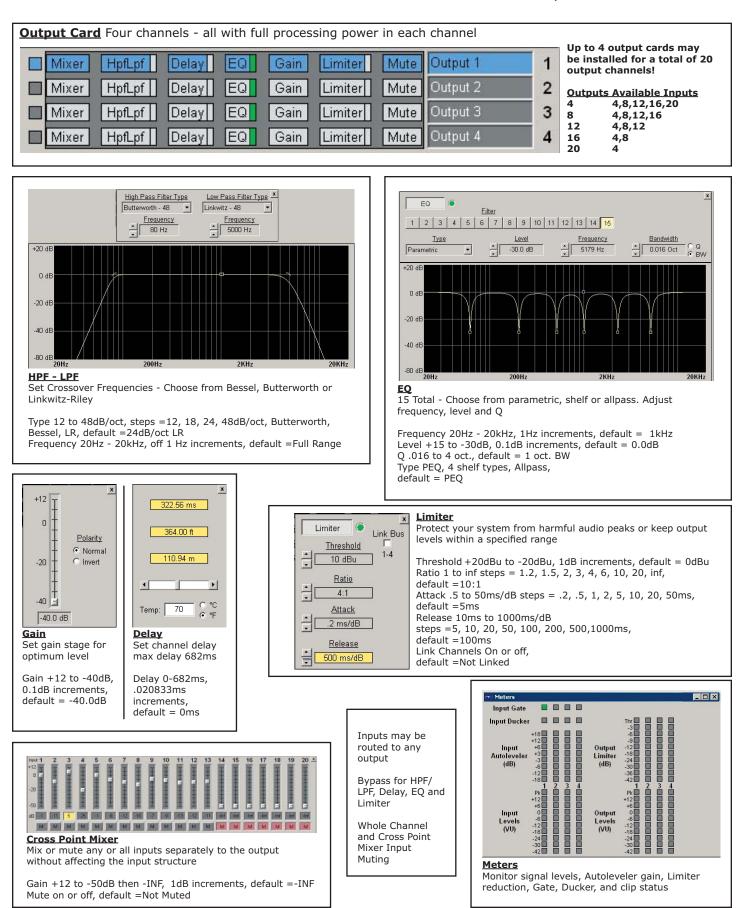
• Remote Voltage Control of First Four Input and Output Levels

• Contact Closure For Remote Recall Of Up To Eight Presets

Input Block Definitions



Output Block Definitions



WR-3 Programmable Multifunction Remote

VR-310 # 1	-				
Function		Channel/Pr	tasa	Funct	ion Range Upper
reset Recall	Ŧ	1: Preset 1	*	None	None
heset Scroll Mode	-	Not Applicable	1	2 Preset 2	+ 4. Preset 4
lutput Gain Control	•	1: Output 1	•	÷-20.0 d8	÷60.48
lutput Gain Control	•	2 Output 2		÷ 20.0 d6	÷ 6.0 d8
lutput Gain Control	•	3. Dutput 3		÷ 20.0 d8	÷ 6.0 d8
lutput Gain Control	٠	4: Output 4	٠		8b 0.3
	reset Recall reset Scroll Mode utput Gain Control utput Gain Control utput Gain Control	reset Recall	eset Recal	eset Recal v 1: Prest 1 v reset Scroll Mode v Not Applicable v upput Gain Control v 1: Dutput 1 v utput Gain Control v 2: Dutput 2 v utput Gain Control v 3: Dutput 3 v	vestet Racal v 1: Preset 1 v 1: None netter South Mode v 10: Applicable

Input Section

The 24.24M can be configured to be controlled by up to four separate WR-3 Wall remotes. The WR-3 select buttons can be mapped to one of six functions including Preset Recall, Preset Scroll, Input Gain Control, Output Gain Control, Input Mute Control and Output Mute Control. Configuration data is stored in the 24.24M and not in the WR-3.

Sample Application 16 X 8 Matrix 8 Microphone, 3 Stereo Line Inputs, 2 Spare Inputs - 8 Outputs

Input Section Ashly Audio 24.24M Preset: Courtroom 1	
File Edit Communications Devices Mute Options Security Help Exit	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	File Edit Communications Devices M
1 Judge Mic Mute Preamp Gain Delay EQ Gate Autolev Ducker Jury Box 1	Litter/Luit Freset Manie
2 Defense Mic Mute Preamp Gain Delay EO Gate Autolev Ducker Bench 2 3 Prosecution Mic Mute Preamp Gain Delay EO Gate Autolev Ducker Stand-Front 3	Save Preset to Disk
3 Prosecution Mic Mute Preamp Gain Delay EQ Gate Autolev Ducker Stand - Front 3 4 Witness mic Mute Preamp Gain Delay EQ Gate Autolev Ducker Stand - Rear 4	
	downloading the
5 Bailiff Mic Mute Preamp Gain Delay EQ Gate Autoley Ducker Record Out-R 5 6 Jury Mic Mute Preamp Gain Delay EQ Gate Autoley Ducker Record Out-L 6	Recall Preset from Disk preset to the
7 Court Clerk Mic Mute Preamp Gain Delay EQ Gate Autoley Ducker	Recall Preset from Protea device saves
8 Stand Mic Mute Preamp Gain Delay EQ Gate Autoley Ducker Press Feed-2 8	valuable field
9 AV Source 1-R Mute Preamp Gain Delay EQ Gate Autoley Ducker	Download MIDI Dump to Protea
10 AV Source 1-L Mute Preamp Gain Delay EQ Gate Autoley Ducker	Trigger MIDI Dump from Protea, time.
11 AV Source 2-R Mute Preamp Gain Delay EQ Gate Autoley Ducker	
12 AV Source 2-L Mute Preamp Gain Delay EQ Gate Autoley Ducker	Print Channel
13 AV Source 3-R Mute Preamp Gain Delay EQ Gate Autoley Ducker	
14 A/V Source 3-L Mute Preamp Gain Delay EQ Gate Autoley Ducker	
15 Spare Mute Preamp Gain Delay, EQ Gate Autolev Ducker 16 Spare Mute Preamp Gain Delay, EQ Gate Autolev Ducker	
16 Spare [Indite] Preamp [Gain [Delay]] Ed [Gaite] Autoley [Ducker]	Edit Communication, Editing channels is
	Copy Input simplified when you
Output Section	
Ashly Audio 24.24M Preset: Courtroom 1	
File Edit Communications Devices Mute Options Security Help Exit	Copy Output and then fine-tune the
<u>1</u> 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	parameters
1 Judge Mic Mixer HpfLpf Delay EQ Gain Limiter Mute Jury Box 1	Paste Output
2 Defense Mic Mixer HpfLpf Delay EQ Gain Limiter Mute Bench 2	
3 Prosecution Mic 4 Witness mic Mixer HpfLpf Delay EQ Gain Limiter Mute Stand - Front 3 4 Witness mic Mixer HpfLpf Delay EQ Gain Limiter Mute Stand - Rear 4	
	Protect the device from tampering
5 Bailiff Mic Mixer HpfLpf Delay EQ Gain Limiter Mute Record Out-R 5 6 Jury Mic Mixer HpfLpf Delay EQ Gain Limiter Mute Record Out-L 6	
7 Court Clerk Mic Mixer HpfLpf Delay EQ Gain Limiter Mute Press Feed-1 7	with the multi-level security options
8 Stand Mice Mixer HpfLpf Delay EQ Gain Limiter Mite Press Feed-2 8	Security Help Exit
9 AV Source 1-R	
10 AV Source 1-L	Password Enter
11 AV Source 2-R	24.24M Preset Lock Change
12 AV Source 2-L	24.24M Parameter Lock
13 A/V Source 3-R	24.24M Full Lock
14 AV Source 3-L	24.24M Full LOCK
15 Spare	Lock Protea System Software
	Lock Hotod System Solendo

Control:

Protea System Software for PC control of the Protea 24.24M may be downloaded free from our web site. Use it to control the 24.24M, 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, XP and NT platforms.

Specifications

Input: Active Balanced, 18 kohms Max Input Level: +20 dBu Input Gain Range: -50dB to +12dB, selectable polarity Output: Active Servo Balanced, 112 ohms Max Output Level: +20 dBu Output Gain Range: -50dB to +12dB, selectable polarity Frequency Response: 20 Hz-20kHz, ±0.25 dB THD: <0.01% @1 kHz, +20 dBu Dynamic Range: >110 dB (20 Hz-20 kHz) unweighted Output Noise: <-90 dBu unweighted

Mic Preamp Gain: 0dB, +40dB, +60dB Phantom Power: +48VDC (9.6ma/input) EIN: -128dBu, 20-20KHz, 50 ohm source

Eq Filters Number: 15 per Input, 15 per Output Selectable As: Parametric Bandwidth: 1/64th Octave to 4 Octave Range: +15/-30dB, 0.1 dB increments Frequency Resolution: 1Hz Low-Shelf Slope: Selectable 6 or 12dB/Octave Frequency Range: 20Hz to 2KHz Range: +/-15dB, 0.1dB increments High-Shelf Slope: Selectable 6 or 12dB/Octave Frequency Range: 3.886KHz to 20KHz Range: +/-15 dB, 0.1 dB increments All-Pass Type: Second-Order (-180 degrees) Frequency Range: 20Hz to 20KHz

Crossover Filters High Pass Filter Type: Linkwitz-Riley, Bessel, Butterworth Slope: 12, 18, 24 and 48dB/Octave Frequency Range: Off to 20KHz, 1Hz increments Low Pass Filter Type: Linkwitz-Riley, Bessel, Butterworth Slope: 12, 18, 24 and 48dB/Octave Frequency Range: Off to 20KHz, 1Hz increments

Delay Input Maximum Delay: 682.5ms Increment: 20µs Output Maximum Delay: 682.5ms Increment: 20µs Gate

Threshold: -80 to +20dBu, 1dBu increments Floor: Off, -80 to 0dBu, 1dBu increments Attack: .2, .5, 1, 2, 5, 10, 20, 50ms/dB Release: 5, 10, 20 50, 100, 200, 500, 1000ms/dB

Autoleveler

Basic Screen Target Level: -40 to +20dBu, 1dBu increments Action: Aggressive/ Ratio 10:1, Hold Time 0 sec, Gain Incr. Rate 20 ms/dB, Gain Dec. Rate 5 ms/dB Normal/ Ratio 4:1, Hold Time 1 sec, Gain Incr. Rate 50 ms/dB, Gain Dec. Rate 10 ms/dB Gentle/ Ratio 2:1, Hold Time 2 sec, Gain Incr. Rate 100 ms/dB, Gain Dec. Rate 20 ms/dB Maximum Gain: 0dB to 22dB, 1dB increments Advanced Screen Target Level: -40 to +20dBu, 1dBu increments Ratio: 1.2:1, 1.5:1, 2:1, 3:1, 4:1, 6:1, 10:1 Hold Time: 0, 1, 2,3, 4, 5, 6Sec Threshold Below Target: -30 to 0dB, 1dB increments Gain Increase Rate: 5, 10, 20 50, 100, 200, 500, 1000ms/dB Gain Decrease Rate: 5, 10, 20 50, 100, 200, 500, 1000ms/dB

Ducker Trigger Threshold: -80 to +20dBu, 1dBu increments Ducker Depth: Off, -30 to 0dBu, 1dBu increments Ducker Release: 5, 10, 20 50, 100, 200, 500, 1000ms/dB

Cross Point Mixer Gain: Inf., -50 to +12dB, 1dB increments with Mute

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) Attack: 0.5 ms to 50 ms per dB Release: 10 ms to 1 sec. per dB

Processor Input A/D: 24 bit Output D/A: 24 bit Processors: 24 bit signal, 48 bit filters, 56 bit accumulator Sample Rate: 48 kHz Propagation Delay: 1.46 ms

Other Power Requirements: 90 - 240VAC, 40W Shipping Weight: 13lbs (Maximum) Dimensions: 19.0"L x 3.5"H x 8.5"D Connections: Euroblock Environmental: 40-120 deg. F, (4-49 deg, C) noncondensing

More information about the Protea 24.24M Matrix Processor can be found on our web site - www.ashly.com

Specifications and features are subject to improvement or change without notice

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