

## Ashly ne24.24M 8x8 8x8 Protea DSP Audio Matrix Switch/Processor

|                                       |   |
|---------------------------------------|---|
| Input                                 | Active Balanced, 18k Ohms   |
| Input Gain Range                      | -50dB - +12dB, Selectable Polarity  |
| Output                                | Active Servo Balanced, 112 Ohms   |
| Input/Output Level                    | +20dBu (Max)  |
| Output Gain Range                     | -50dB - +12dB, Selectable Polarity  |
| Frequency Response                    | 20 Hz—20kHz, ±0.25 dB   |
| THD                                   | <0.01% @ 1kHz, +20 dBu  |
| Dynamic Range                         | >110dB (20Hz-20kHz) Unweighted  |
| Output Noise                          | <-90 dBu Unweighted   |
| Environmental                         | 40-120 deg. F, (4-49 deg. C) noncondensing  |
| <b>Rear Panel</b>                     |   |
| Controls                              | Remote level control, Data In/Out ports, Preset Recall, Logic Inputs, On/Off switch |
| Connections                           | 10/100 Ethernet port, RS-232, Euroblock In/Out                                      |
| Power Cord                            | 3-Prong, Detachable   |
| <b>Weight, Dimensions &amp; Power</b> |   |
| Dimensions                            | 19"L x 35"H x 8.5"D (483mm x 89mm x 216mm)  |
| Unit Weight                           | 8.9lbs (4.04kg)   |
| Shipping Weight                       | 12lbs(6kg)  |
| Power Requirements                    | 90 - 240VAC, 50/60Hz, 40W   |

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| <b>Compressor</b>  |  |
| Threshold  | -20dBu to +20dBu                         |
| Ratio  | 1.2:1-∞                                  |
| Attack   | 0.2 to 50ms                              |
| Release  | 5ms/dB to 1000ms/dB                      |
| Detector   | Peak/Average                             |
| Attenuation Bus  | 1 available                              |
| Metering   | In, Out, Attenuation, Graphical          |
| <b>Autoleveler Controls</b>  |  |
| Target Level   | -40dBu to +20dBu                         |
| Action   | Gentle, normal, aggressive, user defined |
| Maximum Gain   | 0dB to +27dB                             |
| Metering   | Attenuation                              |
| Ratio  | 1.2:1 to 10:1                            |
| Threshold Below Target   | -30dB to 0dB                             |
| Gain Increase/Decrease Rate  | 5ms/dB to 1000ms/dB                      |
| Hold Time  | 0-6 sec                                  |
| <b>Ducking: High/Low Priority, Trigger, Filibuster, Ducked Program</b> |  |
| Trigger Threshold  | -80dBu to +20 dBu                        |
| Ducking Release  | 5ms/dB to 1000ms/dB                      |
| Ducking Depth  | 0dB to -30dB, -∞                         |
| Enable Ducking at Matrix Mixer   | Yes                                      |
| Metering   | Input                                    |
| <b>Gate</b>  |  |
| Threshold  | -80dBu to +20dBu                         |
| Range  | off, 100dB to 0dB                        |
| Attack   | 0.2ms/dB to 50 ms/dB                     |
| Release  | 5ms/dB to 1000ms/dB                      |
| Metering   | Gate LED, Graphical                      |

|                               |                                      |
|-------------------------------|--------------------------------------|
| <b>Gain</b>                   |                                      |
| Gain                          | -50dB to +12dB, off, polarity invert |
| Remote Level Control          | 8 available, 0dB to ∞                |
| Remote RD8C Gain              | Enable per channel, 0dB to ∞         |
| WR-5 (neWR-5) Remote Gain     | 0 to -50dB, Mute                     |
| <b>EQ: Parametric 15 Band</b> |                                      |
| Frequency                     | 20*20kHz                             |
| Level                         | -30dB to +15dB                       |

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| Q Value  | 0.016 to 3.995 Octave |
| <b>EQ: Hi/Low Shelf 6/12 dB/oct</b>  |                       |
| Frequency  | 20Hz—20kHz            |
| Level  | -15dB to +15dB        |
| <b>EQ: All Pass</b>  |                       |
| Frequency  | 20Hz—20kHz            |
| <b>EQ: Variable QHP/LP</b>   |                       |
| Frequency  | 20Hz—20kHz            |
| Q Value  | 3.047 to 0.267        |
| <b>EQ: Notch/Bandpass</b>  |                       |
| Frequency  | 20Hz—20kHz            |
| Q Value  | 92.436 to 0.267       |
| <b>Crossover: 2 Way, 3 Way, 4 Way Crossover &amp; High Pass/Low Pass Filters</b> |                       |
| Bessel & Butterworth Filters   | 12/18/24/48dB/oct     |
| Unkwitz-Riley Filter   | 12/24/48 dB/oct       |
| Frequency  | Off, 20Hz-20KHz       |
| <b>Delay: § 48kHz Sampling Rate (Input Time, Distance &amp; Temperature)</b>     |                       |
| Speaker Delay  | 0-21ms                |
| Delay  | 0-682ms               |

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| <b>Delay: @ 96kHz Sampling Rate (Input Time, Distance &amp; Temperature)</b> |   |
| Speaker Delay  | 0-10.6ms  |
| Delay  | 0-341ms   |
| <b>Audio Metering Tool</b>   |   |
| Range  | -60dBu to +20dBu                                  |
| Increments   | 1dB   |
| Peak Hold Indicator  | Yes   |
| <b>Signal Generator Tool: Pink noise, White noise, Sine wave</b>             |   |
| Signal Level   | Off, -50dBu to +20dBu                             |
| Sine Wave Frequency  | 20Hz—12kHz  |
| <b>Matrix Mixer</b>  |   |
| Gain (0.5dB increments)  | Off, -50 to +12dB                                 |
| Mute   | Per channel                                       |
| Enable Ducking at Mixer  | Yes   |
| Ducking LED  | Per channel if enabled                            |
| <b>Processors</b>  |   |
| Input A/D, Output D/A  | 24-bit  |
| DSP Processors   | 24-bit signal, 48-bit filters, 56-bit accumulator |
| Sample Rate  | 48kHz   |
| Propagation Delay @ 48kHz:   | 1.46ms  |