

Ashly ne24.24M 4x4 Logic 4x4 Protea DSP Audio Matrix Switch/Processor with GPO Logic Card

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| 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 |
| Rear Panel | |
| 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 |
| Weight, Dimensions & Power | |
| 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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| Compressor | |
| 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 |
| Autoleveler Controls | |
| 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 |
| Ducking: High/Low Priority, Trigger, Filibuster, Ducked Program | |
| 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 |
| Gate | |
| 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 |

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| Gain | |
| 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 |
| EQ: Parametric 15 Band | |
| Frequency | 20*20kHz |
| Level | -30dB to +15dB |

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

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| Delay: @ 96kHz Sampling Rate (Input Time, Distance & Temperature) | |
| Speaker Delay | 0-10.6ms |
| Delay | 0-341ms |
| Audio Metering Tool | |
| Range | -60dBu to +20dBu |
| Increments | 1dB |
| Peak Hold Indicator | Yes |
| Signal Generator Tool: Pink noise, White noise, Sine wave | |
| Signal Level | Off, -50dBu to +20dBu |
| Sine Wave Frequency | 20Hz—12kHz |
| Matrix Mixer | |
| Gain (0.5dB increments) | Off, -50 to +12dB |
| Mute | Per channel |
| Enable Ducking at Mixer | Yes |
| Ducking LED | Per channel if enabled |
| Processors | |
| 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 |