Specifications

Note: 0dBu = 0.775 VRMS

Input
Active Balanced, 18k Ohms

Input Level
+20dBu (Max)

Input Gain Range
-40dB–+12dB

Output
Active Balanced, 112 Ohms

Output Level
+20dBu (Max)

Output Gain Range
-40dB–+12dB

Weights, Dimensions & Power

Unit Weight
SP3.6: 7lbs (9.54kg) SP4.8: 7.3lbs (3.3kg)

Shipping Weight
SP3.6 / SP4.8: 10lbs (5kg)

Environmental
40°F–120°F (4°C–49°C) noncondensing

Dimensions
19” L x 1.75” H x 8.5” D (483mm x 89mm x 216mm)

AC Requirements
Universal Power Supply, 100–240VAC, 50/60Hz, 20W

Equalizer

EQ Filter Types
1st or 2nd Order High or Low Shelf, Parametric

Shelving Filter Boost/Cut Range
±15dB

Shelving Filter Frequency Range
Low Shelf: 19.7Hz–2kHz, High Shelf: 3.8kHz–21.9kHz

Parametric Filter Boost/Cut Range
+15dB–30dB

Parametric Filter Frequency Range
19.7Hz–21.9kHz, 1/24 Octave Steps

Parametric Filter Bandwidth
Four Octaves to 1/64 Octave

Delay
Input/Output Delay
0–682ms

Crossover
HPF/LPF Frequency Range
19.7Hz–21.9kHz, Off

Available Filter Types
12dB/Oct Butterworth
12dB/Oct Bessel
12dB/Oct Linkwitz-Riley
18dB/Oct Bessel
18dB/Oct Linkwitz-Riley
24dB/Oct Butterworth
24dB/Oct Bessel
24dB/Oct Linkwitz-Riley
48dB/Oct Butterworth
48dB/Oct Bessel
48dB/Oct Linkwitz-Riley

Limiter
Threshold Range
-20dBu–+20dBu

Ratio Range
1.2:1 to ∞

Attack Time Range
0.5ms–50ms

Release Time Range
10ms–1Sec

Frequency Response
20Hz–20kHz, ±0.25dB

THD
<0.01% @ 1kHz, +20dBu

Dynamic Range
>110dB, 20Hz–20kHz unweighted

Audio Sampling Rate
48kHz

Propagation Delay
1.46ms

Signal LEDs (dBu or VU)
Inputs
-20/Mute, -10, 0, +10, Clip

Outputs
-20/Mute, -10, 0, Limit Threshold, Clip

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DS-1214
Protea System Processors

Architect & Engineering Specs

Protea System Processor (3.6)
The system processor shall consist of three inputs and six outputs. It shall utilize 48-bit double-precision fixed-point DSP filtering with 24 bit, 48kHz, 128x oversampling delta-sigma A/D and D/A converters. Digital processing includes Gain, Parametric EQ, Shelving Filters, Time Delay, Crossover Functions, Compression, Limiting, and Matrix Routing. All inputs and outputs are RFI-protected precision balanced on XLR connectors. The processor shall have a front panel interface that allows quick access to all control parameters by offering dedicated function buttons, eliminating the need for hidden sub-menus. The front panel shall have a large white-backlit LCD text display for easy viewing. Front panel LED meter bars shall also be provided on all inputs and outputs. A USB port shall be provided on the front and rear panels for even faster set-ups and stronger visualization of input/output routing, EQ, and filter curves using freely available control software. The back panel shall also provide an RS-232 data port for control and monitoring. The digital processor shall be capable of storing up to 30 preset file "snapshots". It shall include four security modes; Off, Preset Lock, Parameter Lock, and Full Lockout. When connected to a PC via the USB port, security settings made on the unit are read and used within the software security section. The DSP processor shall mount in a standard 19" rack using 1 space (1.75" high).

The system processor shall be an Ashly model Protea 3.6SP

Protea System Processor (4.8)
The system processor shall consist of four inputs and eight outputs. It shall utilize 48-bit double-precision fixed-point DSP filtering with 24 bit, 48kHz, 128x oversampling delta-sigma A/D and D/A converters. Digital processing includes Gain, Parametric EQ, Shelving Filters, Time Delay, Crossover Functions, Compression, Limiting, and Matrix Routing. All inputs and outputs are RFI-protected precision balanced on XLR connectors. The processor shall have a front panel interface that allows quick access to all control parameters by offering dedicated function buttons, eliminating the need for hidden sub-menus. The front panel shall have a large white-backlit LCD text display for easy viewing. Front panel LED meter bars shall also be provided on all inputs and outputs. A USB port shall be provided on the front and rear panels for even faster set-ups and stronger visualization of input/output routing, EQ, and filter curves using freely available control software. The back panel shall also provide an RS-232 data port for control and monitoring. The digital processor shall be capable of storing up to 30 preset file "snapshots". It shall include four security modes; Off, Preset Lock, Parameter Lock, and Full Lockout. When connected to a PC via the USB port, security settings made on the unit are read and used within the software security section. The DSP processor shall mount in a standard 19" rack using 1 space (1.75" high).

The system processor shall be an Ashly model Protea 4.8SP