

ANR572



AUTOMATIC AUDIO NOISE REDUCTION PROCESSOR

The ANR572 Stereo Audio Noise Reduction processor is an advanced audio noise reduction system based on the proprietary HUSH circuitry that provides a 4 to 1 reduction in noise (up to 25 dB) on any noisy audio programming. Radio and TV stations can significantly reduce objectionable noise originating from audio or video tapes, old recordings, telephone call-in lines, ENG Feeds, wireless links and other noisy transmission systems or program sources.

Since this is a single ended noise reduction system, it does not require processing at the program origin. This processor can be used at any point in the audio path that needs noise reduction. The ANR572 can also be used with Dolby B encoded sources with excellent results. It will also pass the SURROUND-SOUND signals for TV stereo.

The HUSH process combines a Dynamic Filter and a Downward Expander to provide a high level of noise reduction effectiveness without the sonic artifacts normally associated with other noise reduction systems. The Adaptive Threshold circuitry detects nominal signal level changes and dynamically adjusts both the Dynamic Filter and Downward Expander thresholds as needed, providing optimal noise reduction regardless of the program source or content.

Both Left and Right audio inputs are balanced and high impedance (bridging) or 600 Ohm (field selectable). A front panel input control allows for a wide range of input levels. A nine segment color LED audio input display is used to set the input control to optimum. The input display is field-selectable for dot or bar-graph mode.

Noise Reduction level is indicated by a nine segment color LED display. The display indicates the level of noise reduction being exerted on the audio at all times. It reads from 0dB to 22dB of noise improvement.

The audio outputs are balanced and low impedance to minimize the frequency response roll-off characteristics of twisted pair audio cable. The output level is field selectable to 0dBm, +4dBm, and +8dBm APL (Average Program Level)

A front panel switch is available to test the noise reduction system by ear on live program material. This switch makes it easy to do listening tests for proof of performance.

INPUT

SPECIFICATION

Channels	2 (Left, Right) Stereo
Impedance	HI-Z or 600 Ohm Balanced
Common Mode Rejection Level	50 dB Minimum
Level Set Up	-10 to +8dBm (APL)
Frequency Response	40 Hz to 15 KHz
Stereo Gain Matching	Better than 0.1 dB (typ.)

OUTPUT

Channels	2 (Left, Right) Stereo
Impedance	Lo-Z Balanced
Field Selectable	0dBm, +4dBm, +8dBm (APL)
Frequency Response	40 Hz to 15 KHz
Distortion	0.1% THD Maximum
Signal to Noise Ratio	90 dB Minimum
Audio Connector (In/Out)	12 Pos. Snap-In Screw Terminal

AUXILIARY OUTPUT

Channels	2 (Left, Right) Stereo
Level (Field Selectable)	-6dBm, -2dBm, +2dBm APL
Impedance	Lo-Z Unbalanced
Connectors	RCA Female

METERING

Input Level	9 Segment LED dB/VU Meter
Noise Reduction	9 Segment LED dB Meter
Peak Level Flasher	Front Panel LED

PROCESSING

S/N Ratio Improvement	25 dB Maximum
Noise Reduction Mode Control	Front Panel ON / OFF Switch

MECHANICAL

Card Size	5.4"W x 9.5"D x 1"H
Power	+/- 12 VDC (PMS500)
Mainframe (sold separately)	PMS500 (Three Cards Per Rack)

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