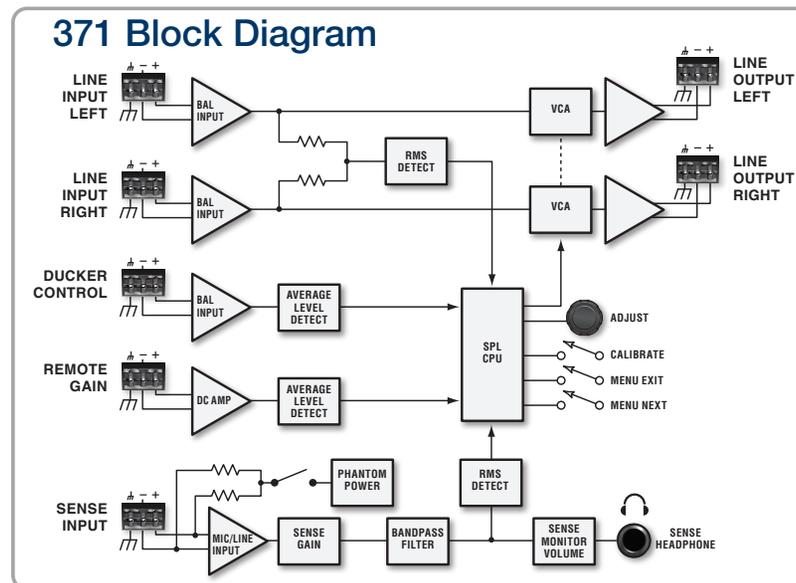




[Pictured actual size]

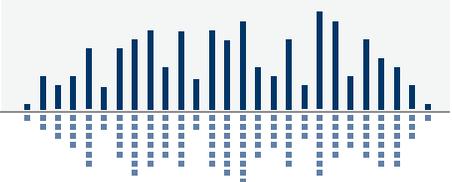
The 371 SPL Computer from Symetrix.

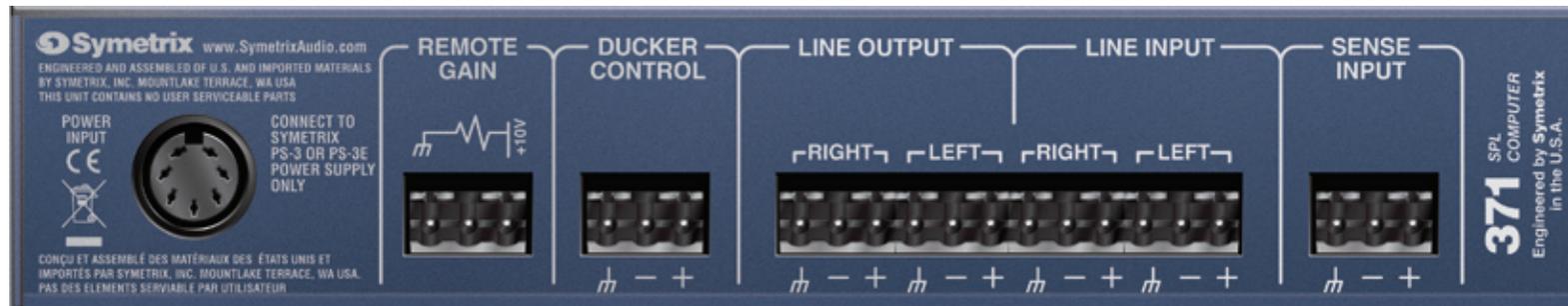
This simple, yet sophisticated **SPL Computer** is designed to ensure that foreground music and/or paging announcements are always clearly audible and distinct, but never too loud. Proprietary AmbiSense™ technology monitors ambient noise levels continuously, not just during gaps in the audio program, and responds quickly to sudden changes. Setup is simple: enter the parameters of the “normal” acoustic environment, then tell the 371 how much to change the gain, and how quickly to raise or lower it, whenever measured noise levels deviate from the parameters you have set. The front panel LCD guides you with step-through menus. Install a simple, precise and cost-effective solution: the 371 SPL Computer, backed by over 15 years of SPL processing innovation from Symetrix, the engineering-driven company of signal processing specialists.



Features

- Half rack space, ambient noise compensator. Applications: Airports, Night Clubs, Retail Locations.
- Continuously monitors ambient noise using a standard microphone.
- Automatically adjusts volume to compensate for ambient noise conditions.
- Headphone monitoring with output level control.
- History displays the lowest and highest SPL readings.





[Pictured actual size]

Architects and Engineers Specifications

The Ambient Noise Compensator (ANC) shall control the output level of the sound system in response to the observed acoustical noise level within the controlled space during system operation. The ANC shall utilize an external microphone to continuously sense the ambient noise level. The ANC shall accommodate musical or paging program signals. Provision shall be made for the user to monitor the audio signal used by the ambient sense system by using headphones. The ANC shall provide user adjustable parameters to alter the way that it responds to changes in the ambient noise level. These parameters are: minimum and maximum gain through the device, gain: sense ratio, and averaging time. In addition, the ANC shall provide active mode, bypass mode, and a history mode that collects and displays ambient noise history from the controlled space. The sense input shall accept either mic or line level signal with adjustable input gain and 15 volt phantom power. The ANC shall provide a controlled stereo line level balanced input and output. The maximum input level shall be +20 dBu and the maximum output level shall be +26 dBu (+22 dBm into 600 Ohms) balanced. The balanced input impedance shall be 20,000 Ohms and the output source impedance shall be 200 Ohms balanced, 100 Ohms unbalanced. The gain control range shall be -30 dB to +20 dB. The frequency response shall be 20 Hz to 20 kHz +/-0.1 dB with THD+N less than 0.025% at +4 dBu over the same range of frequencies. The output noise of the device shall be less than -95 dBu (20 kHz noise bandwidth, unity gain). All connections shall Euroblock

style connectors. In addition to the audio input/output connections, there shall be a connection provided for a ducker input whose circuit will have an adjustable threshold and will inhibit response to changes in ambient level when signals applied to the ducker input are above the threshold level. A front panel power indicator shall be provided. A liquid crystal display shall be provided to communicate operating parameters and setup information with the user. A lockout function shall be available to prevent parameter setting changes by unauthorized users. The ANC shall occupy half of the width of one rack space and shall be housed in a metal enclosure. The unit shall be capable of operating by means of a Symetrix PS-3 or PS-3E external power supply connected to 115 VAC nominal (95 to 130 VAC), 50/60 Hz or 230 VAC nominal (207 to 253 VAC), 50 Hz where applicable. The Ambient Noise Controller shall be the Symetrix model **371 SPL Computer**.

Specifications

INPUT/OUTPUT

Maximum Input: Level +20 dBu balanced; +20 dBu unbalanced
Program Input Impedance: >20k Ω balanced; >10k Ω unbalanced
Input Common Mode Rejection: >40 dB
Maximum Output Level: +26 dBu balanced (20k Ω load); +22 dBm balanced (600 Ω load)
Output Impedance: 200 Ω balanced; 100 Ω unbalanced

PERFORMANCE DATA

Program Frequency Response: 20 Hz to 20 kHz, +0, -1 dB

Program Path THD+N: <0.025% (+4 dBu in, +4 dBu out)
Output Gain Limits: +20, -30 dB
Sense Channel Frequency Response: -3 dB at 300 Hz and 6000 Hz
Sense Channel Gain Selectable: 0 dB to +70 dB
Additional Headphone Monitor Gain: 28 dB maximum
Program Channel Output Noise: -95 dBu @ unity gain, typical
Master Output Level Adjustment Range: +/-10 dB internal; +10 dB to -50 dB remote

CONNECTIONS

Line Inputs, Sense Input, Ducker Control, Remote Gain: Euroblock
Line Outputs: Euroblock
Power In: 7-pin DIN
Headphone: 1/4" TRS, will drive mono or stereo headphones

PHYSICAL

Size: (H x W x D) 1/2 rack unit,
 1.75 in. x 8.5 in. x 6.5 in. / 4.445 cm x 21.59 cm x 15.875 cm
Shipping Weight: 4.5 lbs. / 2.03 kg

ELECTRICAL

Power Requirements:
 115 VAC nominal, 95 to 130 VAC, 50 to 60 Hz
 230 VAC nominal, 207 to 253 VAC, 50 Hz

ENVIRONMENT

Maximum operating ambient temperature: 30° C.

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