

THE SYMETRIX 610 BROADCAST AUDIO DELAY GIVES THE HOST OR PRODUCER of a talk show the power to prevent the broadcast of unwanted profanities or comments from telephone callers. As the program begins, the 610 gradually and unobtrusively delays or stretches out the program until 7.5 seconds of 14 kHz bandwidth stereo audio is stored in memory. When a person on the telephone line says something the host or producer does not think appropriate for the broadcast, he or she presses the dump profanity button and the memory is cleared, thereby preventing the unwanted audio from reaching the airwaves. Meanwhile, the host releases the offending caller from the telephone line and proceeds with the program. Once the DUMP PROFANITY button is pressed, the 610 automatically begins to stretch the program audio again until the full 7.5 second delay is attained.

Historically, broadcast delay lines have been implemented in a variety of fashions, from jerry-rigged analog tape delays using tricky relay switching, to extremely expensive digital units costing many thousands of dollars. The Symetrix 610 takes advantage of the latest digital audio technology to bring to market a product that is both simple to install and amazingly easy for even the most nontechnical person to operate. All of this, at a price that's within the budget of any broadcast facility.

The advantages of installing a 610 in your facility are at least twofold: 1) profanities and unwanted comments and their accompanying liabilities are held at bay and 2) your station's talent, programming and engineering staff can proceed to do their jobs with confidence and peace of mind.

In a typical scenario, the 610 is installed following the main program output of the mixing console. When the show begins, the host or producer presses the START DELAY button. The 610 inserts imperceptible delays into the program until a 7.5 second delay time has been reached. As explained above, should an unwanted comment occur, the DUMP PROFANITY button is pressed and 7.5 seconds of audio vanishes taking the comment with it. The 610 automatically splices back together everything except the 7.5 seconds which contained the unwanted comment. Alternatively, the 610 can be set up so that only half of the 7.5 second memory is deleted the first time the button is pushed, thereby maintaining a 3.75 second

reserve. This allows the host to bring another caller on air right away without having to wait for the memory to build up from scratch - a great feature for fast moving shows! Just prior to the end of the program the EXIT DELAY button is pushed. The 610 begins releasing memory gradually until there is no delay and operation is in real time. It's that simple.

As a bonus feature we've added a COUGH button to allow the host to make impromptu interruptions of the program for up to 7.5 seconds while keeping the audience unaware of the break. In this situation the button is pushed and the 610 plays from memory while the button is held in. As soon as the button is released, the 610 automatically begins to refill the memory. The host can cough, have a quick drink of water, or make a comment to the producer or engineer without any perceptible program interruption.

As with all Symetrix products the 610 Broadcast Audio Delay is designed and constructed to the highest broadcast industry standards. Our documentation and customer support are second to none. If your station's programming includes talk and you want to operate with confidence, then contact your favorite equipment distributor for a demonstration of the 610 Broadcast Audio Delay. •

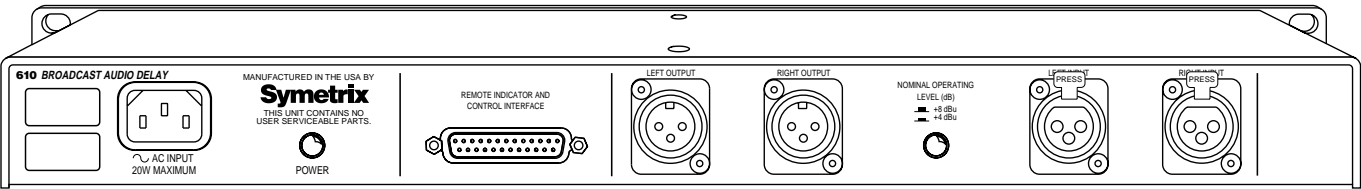
APPLICATIONS

- News/Talk Radio
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- Sports Radio
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- Music Formats
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- AM or FM
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- Any situation where live or taped telephone conversations are broadcast
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FEATURES

- Advanced DSP "time expand/time squeeze"
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- Simple, foolproof controls - easy to operate
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- Remote control of all functions and important LED indicators
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- Hardwire relay bypass (fail-safe)
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- Stereo, 14 kHz bandwidth
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610



SPECIFICATIONS

Input/Output		Specifications subject to change without notice.	
Inputs	Stereo, Balanced Bridging	Frequency Response	±1dB, 20 Hz-14 kHz (in full delay)
Outputs	Stereo, Electronically Balanced		-3.5dB @ 10 kHz (building and exiting delay)
Input Connectors	XLR	Dynamic Range	>80 dB
Output Connectors	XLR		
Polarity	Pin 2 high	Physical	
Maximum Input Level	+22 @ 8dBu input setting	Size (hwd)	1.72 x 19 x 6.75 inches, 4.37 x 48.3 x 17.145 centimeters
Maximum Output Level	+22 dBu into 600 Ohms	Shipping Weight	8 lbs, 3.64kg
Input Common Mode Rejection	60 dB @ 1kHz	Electrical	
		Power Requirements	117V nominal, 105-130V AC, 50-60Hz, 15 watts

610 ARCHITECTS AND ENGINEERS SPECIFICATIONS

The Broadcast Audio Delay shall be a stereo model whose output is delayed by as much as 7.5 seconds thereby allowing the operator to delete or 'dump' unwanted audio. The Broadcast Audio Delay shall occupy one rack space (1U).

The inputs shall be active balanced bridging designs terminated with 3-pin XLR (AES/IEC standard wiring) female jacks.

The outputs shall be active balanced designs terminated with 3-pin XLR (AES/IEC standard wiring) male jacks.

Overall frequency response shall be 20 Hz to 14 kHz, ±1dB, measured at +4dBu

output. There shall be no more than 0.1% harmonic distortion measured under the following conditions: +4dBu input, +4dBm output, 7.5 second delay, 1000 Hz test frequency. Dynamic range shall be >80 dB, full scale, between the noise floor and maximum output level.

When the unit is inoperative (either by loss of power, or via the BYPASS switch), the inputs and outputs shall be wired together.

The Broadcast Audio Delay shall be capable of operating by means of its own built-in power supply connected to 117V nominal AC (105 to 130V) 50/60 Hz and 230V nominal AC (207 to 253V AC).

The Broadcast Audio Delay shall be a Symetrix, Incorporated model 610 Broadcast Audio Delay.

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