



## The Airtools 6100 Broadcast Audio Delay.

A 24-bit digital delay unit for live broadcast that makes it easy and affordable to prevent unwanted profanity or comments from reaching your airwaves.

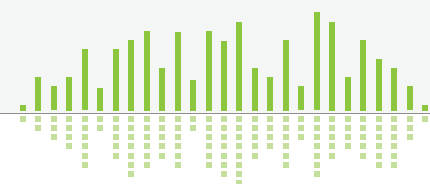
Engineered by Symetrix with advanced delay technology, the AirTools 6100 offers up to 40 seconds of user-definable delay at a full 20 kHz range of stereo bandwidth. Carrying a very competitive price tag, the AirTools 6100 brings world-class profanity delay within the reach of any broadcaster. When the show begins, press START. The AirTools 6100 begins digitally time-stretching your program, creating the reaction window you specify – up to 40 seconds of delay time. Then simply push a button on the unit or a remote control panel to edit unwanted or offensive content.

You select the splicing algorithm for music or spoken-word programming. Advanced features include digital audio I/O, TC89 timecode integration and RS-232 remote control.

Keep your air clean and seamless with the AirTools 6100 Broadcast Delay from Symetrix, the engineering-driven company of signal processing specialists.

## 6100 Features

- HD-compatible 24-bit digital delay unit for live broadcast that prevents unwanted profanity or comments from reaching the airwaves.
- Adds RS-232, AES3/EBU, digital audio I/O and TC89 time code integration to the 6000's feature set.
- Up to forty (40) seconds of full bandwidth stereo delay (user programmable in 0.1 second increments).
- User selectable delay algorithms. Tailored for music and speech.
- Remotely controlled from the AirTools RC-6000 or from your custom panel.





## Specifications

### Input/Output

- Analog Input Type:** Stereo, balanced bridging
- Maximum Analog Input Level:** +28 dBu
- Input Common Mode Rejection:** >40 dB @ 1 kHz
- Digital Input Type:** AES3
- Analog Output Type:** Stereo, electronically balanced
- Maximum Analog Output Level:** +28 dBu into 100k  $\Omega$
- Digital Output Type:** AES3

## Performance Data

- Frequency Response:** 20 Hz to 20 kHz\*,  $\pm 1$  dB @ +4 dBu output
- Harmonic Distortion:** less than 0.01% with +4 dBu input, +4 dBu output, 40 second delay and a 1 kHz test signal.
- Maximum Delay:** 40 seconds
- Dynamic Range:** A/D -108 dB (A-weighted)
- Dynamic Range:** D/A -115 dB (A-weighted)
- A/D and D/A Conversion:** 24-bit sigma delta
- Internal Sample Rate:** 48 kHz
- External Digital Sync Range:** 30 to 50 kHz, AES3 and Word Clock

### CONNECTORS

- Input Connectors:** XLR (Analog and Digital Audio); BNC (Word Clock, ESE time code); D-sub 25 (Remote Control and Automation); D-sub 9 (RS-232); Euro (RS-485)
- Output Connectors:** XLR (Analog and Digital Audio); BNC (ESE Time Code)

### PHYSICAL

- Size:** (HxWxD) 1 rack unit, 1.72 in. x 19 in. x 8.2 in. (4.37 cm x 48.30 cm x 17.15 cm)
- Shipping Weight:** 8 lbs. / 3.64 kg
- Electrical
- Power Requirements:** 100 to 240 VAC, 50 Hz to 60 Hz, 25 Watts

### ENVIRONMENT

- Maximum operating ambient temperature: 30° C.

\*NOTE: A high pass filter is engaged during build and exit modes when using the gap detector gap detect+catchup algorithms. During build and exit modes when using either of these algorithms, the frequency response will be down about -3 dB at 100 Hz.

Add An  
**Airtools RC-6000**  
Remote Control To Your  
Broadcast Delay



With the 6000 in the rack and an **RC-6100** on the desk, you can double the chances of catching unwanted comments from reaching the airwaves.

