



The DMX8 is a digital recording device that connects to a host PC via USB 2.0. The DMX8 has 8 balanced inputs that can be either microphone or line level, and are mixed down to 2 or 4 channels and digitized. The mixing is completely flexible, allowing any selection of inputs to be routed to any record channel. The digitized audio is sent to the host PC via a USB connection for recording on the host PC's hard drive. A software driver is provided that makes the DMX8 appear as a standard Microsoft Wav device.

The DMX8 is designed for voice applications and incorporates a dynamic range compressor/noise gate on each input. The dynamic range

compressor/noise gate makes the recording process more forgiving of varying loudness levels of different people's voices. There are 4 monitor outputs intended for interfacing to telephone or video teleconferencing systems. This allows for person(s) at remote locations to participate in the proceeding being recorded and hear the voices of the other participants. Any selection of inputs may be routed to any of the 4 monitor outputs. This allows remote participants to listen to a mix which has their voice removed to avoid echoes or feedback. There is a fifth "monitor all" output which is a fixed mix of all 8 inputs. Also, if the PC connected to the DMX-4 is connected to a LAN, adjustments can be made from a remote computer anywhere on the LAN.

### Features

- Combines 8-input to 4-channel mixer with 4-channel audio encoder card functions in a single device.
- USB 2.0 interface ensures easy installation and configuration.
- Includes 8 XLR microphone and/or line inputs.
- MIC inputs accept balanced or unbalanced (mic/line level), and phantom powered.
- Inputs can map to any of 4 s/w records and/or any 5 physical monitor outs.
- Host software interface gives you complete control of internal configurations.
- Includes software-enabled phantom power to support different types of microphones.
- Supports audio input and output to telephone and video teleconference systems.
- Power and independent peak input LED indicators for each channel.
- Compatible with all FTR applications.
- Simple to install and configure because it connects via the USB 2.0 interface. The eight inputs are software configurable to accept either dynamic, condenser or line-level inputs.
- All input channels are mixable to four discrete channels for recording, and four mono (mix-minus) output channels are available for delivery to teleconferencing and videoconferencing applications. A master composite output of all input channels is available for delivery of audio through a public address system.
- Windows 2000, XP, and VISTA O/S support
- Similar to Antex LX-44 sound card mixer. Contains storable mixer "scenes"

# DMX-8

## Specifications

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### Analog Inputs

Quantity	8
Connector	XLR-F
Levels	-60 to +10dBu (0.775mv to 2.5VRMS) (note 1)
Input Impedance	1K ohms
Phantom Power	Each channel individually enabled by software, +12V
THD+N	0.025% condition: -30dBu input (25mVRMS), trim controls set so that compressor is not active
CMRR	80dB
Frequency Response	20 to 20kHz $\pm$ 3dB
DR Compression	Uses THAT4301 analog audio processor (note 2)
Noise Gating Uses	THAT4301 analog audio processor (note 3)
Trim Control	Software controllable, -90dB to +15dB range, 0.5dB steps

Notes: (1) The input preamplifier has 3 software configurable gain settings: +62dB, +46dB, and 0dB. The preamplifier is followed by a software adjustable trim control. (2) Compression takes effect about 10dB above nominal record level. Compression slope 10:1. (i.e. a 10dB increase in input level will cause a 1dB increase in output level.) (3) Noise gating is in effect about 10dB below nominal recording level. Slope 1:10. (i.e. a 1 dB decrease in input level will cause a 10dB decrease in output level.)

### Mixer

Record Device Source Selection	Any N of 8 inputs for each of 4 records
Monitor Source Selection	Any N of 8 inputs for each of 4 monitor out

### A/D Conversion

Conversion	16 bits
Sample rates	8,11.025,12,16,22.05,24,32,44.1,48 KHz
Physical Record Devices	4 (mono)

### Audio Monitor Outputs

Monitor All	Balanced or unbalanced +20dBu nominal full scale output level, ¼" TRS (note 5)
Monitor 1 - 4	Unbalanced RCA, 2VRMS nominal full scale output level (note 6)
Output Trim Control, each	>90dB range, 0.5dB steps

Notes: (5) The +20dBu level is for balanced configuration. If one output is grounded, the output will function as unbalanced, but +20dBu will not be possible without high distortion. (6) Because of the trim controls, levels greater than the nominal levels are possible. If connecting to telephone equipment, care must be taken not to over drive the public telephone network.

### Indicator LEDs

Power, green  
One bi-color LED per input channel. Green indicates audio activity. Red indicates compression threshold is reached.

### Computer Interface

OS support	Windows 2000 workstation, XP Home, XP Pro, Vista
USB	USB 2.0 required
Audio Wav Devices	2 or 4 mono record devices (1 or 2 stereo)
Mixer	Antex Mixer Windows application with storable mixer "scenes"

### General

Power	120/240VAC,switchable; 50-60Hz
AC Input	Removable IEC plug
Certifications	cUL 60065-1, CE/FCC Part 15 Class A
Size	15.25" W x 10.75" D x 2.4" H
Weight	9 lbs.
Connector Orientation	All audio, USB, and AC power connectors on one 15" side
Indicator LED Orientation	On opposite side from connectors
Operating Environment	0-40C, 0-95% RH non-condensing

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*Specifications subject to change without notice*