



The Network Audio Logger

The Net-Log is a new way to record and play audio. The Net-Log overcomes the inherent unreliability of PCs for long-term recording by providing a dedicated hardware recording platform that uses a simple network connection for audio playback.

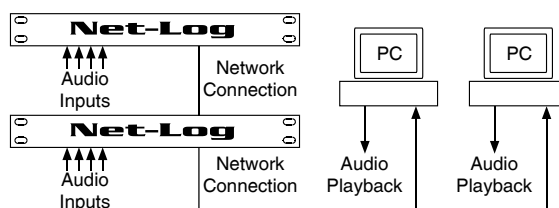
Playback software on a network connected PC streams the audio to the desktop where it can be archived as a file, or played out either live or delayed.



Summary

Net-Log is able to record 4 mono, or 2 stereo audio streams for play-back over TCP/IP. Audio is encoded in mpeg layer 2 format and written to a large internal IDE hard disk drive. Playback is carried out by streaming the audio across a network onto one or many PCs.

All the Net-Log configurations and operational features are controlled from the PC using Net-Log-Win software. Each Net-Log has its own IP address, so a number of machines can be installed on the same network.



Features

- Dedicated reliable multi-channel recording hardware.
- Easy to use Windows remote operation for playback, archiving, streaming and configuration.
- Independently configurable channel pairs to record at different sample rates, different bit rates and in mono or stereo.
- Recording duration configuration of the channels to suite your needs, e.g. 2 channels of low quality logging for 42 days together with two channels of high quality logging for 2.5 days, on one machine.
- Record inputs which can be controlled remotely, e.g. snoop recording from a mic-live output of a mixer.
- Failsafe alarm indicators and remotes.
- Password protection and security access rights to system.

Recording

Recording is controlled remotely by using the Net-Log-Win PC software together with an emergency over-ride Record Control on the front panel of the machine. Net-Log can record continuously, or can be set up to start and stop recording at different times using programmes.

Each channel, or pair of channels, can be programmed to record independently and can be configured with different sample and bit rates. Each channel can also be given a service name for reference when searching for audio. Programmes can be saved to disk for recall at a later stage.

Record input levels can be altered using pre-set potentiometers and a LED display shows the input level for each channel. A graphical display indicates when the logger is recording and, additionally, shows how far into the recording cycle it has progressed.

Playback

Net-Log-Win software for Win 98/NT is used to listen to the audio live, to listen to audio recorded at a previous time and date, or for copying audio to a file, for example, to email to a client or colleague.

Simple controls allow you to select a channel and a time & date of recording. Within seconds the selected audio is streamed directly to your desktop.

Archiving

If you want to use the Net-Log to automatically create long-term backups of the audio data that you are recording, you can use the archiving function to stream audio to a disk file for archival purposes.

Net-Log can either be set to start and stop archiving at certain times, or set to archive after so many hours of recording has been achieved.

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Net-Log-Win play screen



Net-Log-Win record screen

Mpeg Data Rate (kbit/sec)	Days	Hours	Minutes	Note	
8	375	0	42	Record Capacity For 1 Mono Channel On a 30GB Hard Disk	
16	187	12	21		
24	125	0	12		
32	93	18	9		
40	75	0	6		
48	62	12	6		
56	53	13	48		
64	46	21	3		
80	37	12	3		
96	31	6	3		
112	26	18	54		
128	23	10	30		
144	20	20	0		
160	18	18	0		
192	15	15	0		
224	13	9	27		These Bit-Rates Are For Stereo Channels Only
256	11	17	15		
320	9	9	0		
384	7	19	30		
				Note : Each pair of channels can be given a different bit-rate.	

Physical Specification
 External Dimensions: 1U 19" rack x 220mm deep
 Weight: Nett weight : 2.5kg Gross weight : 3.5kg

Audio Specification
 Input Impedance: >10k balanced
 Input Gain Range: -6dBu to +20dBu ref full scale digits
 Maximum Input Level: +20dB
 Distortion: <0.1% @ 1kHz +16dBu
 Signal to Noise Ratio: 90 dB RMS A wtd. 22kHz bandwidth
 Wow and Flutter: Unmeasurable
 Phase Error at 10kHz: Unmeasurable

Please note that the audio specification of the play output depends on the soundcard that you have installed in your PC. Net-Log is a recording device and has no audio output of its own.

Rear Panel Connections, Controls and Indicators
 Analogue Inputs (4): XLR 3 pin socket
 Input Level Controls (4): Rotary pre-set potentiometers
 Network: RJ45 and BNC 10Mbps ethernet
 Network Status LEDs: Rx, Tx, link and collision
 RS232 (2): 9 way D-type plug
 Alarm Outputs and Remote Inputs: 15 way D-type plug
 Power: IEC Power plug, 95-265 VAC, 47-63Hz

Front Panel Controls and Indicators
 Controls: Record control to instantly start recording
 Alarm Indicators (2): Disk drive alarm, archive alarm
 Level Indicators (4): Analogue input level for each channel

Additional Information
 Sample Rates: 16kHz, 22.05kHz, 24kHz, 32kHz, 44.1kHz and 48kHz
 Audio Format: Mpeg layer 2
 Recording Types: Mono, dual mono, stereo
 Hard Disk Capacity: A minimum hard-disk size of 30GB is fitted. Due to the rapidly changing nature of disk capacities, the hard-disk size installed may be larger than this.
 PC Soundcard Needed: Any windows compatible soundcard that can play PCM (.wav) audio files.

Equipment Type
 Net-Log-01 Net-Log 4 channel audio logger
 Net-Log-Win01 Net-Log Win 98/NT Windows software - single license
 Net-Log-Win05 Net-Log Win 98/NT Windows software - five user license

SONIFEX

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