



dns

dialogue noise suppression

**CEDAR**



# CEDAR

  

## dns

Noise is all around us: traffic, aircraft, the noise inside vehicles, air conditioning, wind, rain and other water noises, the noise from domestic appliances and even excessive reverberation. It annoys people, and it can render many recordings unusable. So noise suppression techniques are used to clean up noisy dialogue for film production, suppress ambient noise for live TV and radio broadcasting, revitalise sound effects libraries, and enhance speech for forensic audio investigations.

Until CEDAR's DNS technology was developed, you were forced to use processes such as low-pass and other filters, noise gates, dynamics processes, or processes developed from analogue encode/decode noise reduction systems. These are often inadequate, so how can you now remove the rumble, general background, whistles, and camera noise from contaminated audio?

The answer is CEDAR DNS.

### Academy Award® winning technology

The CEDAR DNS1000 was the most successful product of its type ever manufactured, and was used by TV, film and post studios worldwide. It made unusable interviews intelligible, saved huge costs in ADR, and rescued dialogue for movies such as The Lord Of The Rings, Spiderman, and countless others.

In February 2005, the ©Academy of Motion Picture Arts and Sciences® honoured CEDAR's Engineering Directors, Dr Christopher Hicks and Mr Dave Betts, with Technical Achievement Awards for the design and implementation of the CEDAR DNS1000.

### CEDAR's DNS processors

CEDAR's Dialogue Noise Suppression technology has become the standard for removing background noise from dialogue.

With near-zero latency the DNS processors are perfect for use on the dubbing stage because you do not need to slip the audio against time-code. They are also ideal for live sound applications where the combination of low latency and 24-bit fidelity means that you can leave the units permanently in the signal chain without fear of audio degradation.

### DNS1500™ - quick, simple and effective

The DNS1500 updates the style, design and performance of the DNS1000. With an improved chassis and updated processors, it couples the perfect ergonomics of its predecessor with improved 2-channel performance and up to 96kHz capabilities for increased compatibility in today's audio environments.

### DNS2000™ - the convenient rackmount solution

Combining the convenience of a plug-in with the power of dedicated hardware, the DNS2000 is a fully automated implementation of DNS designed specifically for Pro Tools® LE and HD users.

Housed in a 1U rack the DN2000 is controlled via USB. Audio I/O is handled by 24-bit AES/EBU and SPDIF interfaces. Each DNS2000 will handle two independent channels simultaneously, performing all the audio processing in real-time, thus freeing up the host computer's CPU for other tasks.

### DNS3000™ - scenes, automation, and more

The DNS3000 is the latest generation of CEDAR's Dialogue Noise Suppression technology, combining all the features and benefits of the DNS1500 with the Pro Tools integration of the DNS2000, and much more.

Additional features include on-board scenes with a simple and intuitive recall system, automation to LTC timecode, moving faders and sample rates up to 96kHz. This makes the DNS3000 ideal for use in all studio environments, and especially in post-production for film, TV and video.

### Audio Forensics

DNS is a valuable tool in audio forensic investigation. In the laboratory, it can remove motor noise from small covert recorders, eliminate electrical interference, and help to clean up recordings suffering from unfavourable acoustics and poor microphone locations. In the field, it can clean audio in real-time, helping to make surveillance less tiring as well as aiding listening accuracy.

### Pro Tools™ control

The Remote Control Software is a plug-in for Pro Tools LE and HD systems, running on both Mac OSX and Windows XP. It allows you to control the DNS2000 and DNS3000 from within Pro Tools, including full integration with Pro Tools' automation and hardware control surfaces.

The software is cross-compatible, so users can create sessions on a DNS2000, and later recall them for use on a DNS3000 (or vice-versa).



### Specification

**Sample rate:**  
DNS1500: 44.1kHz - 96kHz  
DNS2000: 44.1kHz - 48kHz  
DNS3000: 44.1kHz - 96kHz

**I/O wordlength:**  
24-bit

**I/O format:**  
AES/EBU & SPDIF

**Internal wordlength:**  
40-bit

**Latency:**  
<10 samples

**Computer interfacing:**  
DNS2000: USB  
DNS3000: Ethernet

**Timecode interface:**  
DNS3000: LTC

**Memories:**  
DNS3000: 100 user-definable presets

**Universal power supply:**  
85 - 250VAC, 50 - 60 Hz  
auto-selecting

**Dimensions:**  
DNS1500: 80 x 225 x 280 mm  
DNS2000: 44 x 205 x 480 mm  
DNS3000: 80 x 225 x 280 mm

**Weight:**  
Approx 3kg (gross)

E&OE

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CEDAR Audio Ltd reserves the right to change specifications without notice

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- pro audio with a smile

