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### **Major dealers:**

#### **Australia**

CDA Professional Audio  
Unit 5, 79 Bourke Road  
Alexandria  
NSW 2015  
www.cda-proaudio.com

#### **Benelux**

Joystick Audio  
Luchterenstraat 25A  
9031 Drongen  
Belgium  
www.joystick.be

#### **Canada**

HHB Canada  
260 King Street East  
5th Floor  
Toronto  
Ontario  
M5A 4L5  
www.hhb.co.uk

#### **China & Hong Kong**

CDA Professional Audio  
Room 1503, Wah Hing  
Commercial Building  
283 Lockhart Road  
Wanchai  
www.cda-proaudio.cn

### **Czech Republic**

Forsolution  
Lisabonska 2394/4  
190 00 Prague 9  
www.forsolution.cz

### **Denmark**

Interstage  
Phistersvej 31  
DK-2900  
Hellerup  
www.interstage.dk

### **France**

FGH Security  
Route de Petit Pont  
45600 Sully Sur Loire  
www.fgh-security.com

### **Italy**

Leading Technologies s.r.l.  
Via Solferino 54  
20900 Monza (MB)  
www.leadingtech.it

### **Mexico**

Diuxi S.A. de C.V.  
Indiana 42, Despacho 4  
Colonia Napoles  
Mexico 03810  
www.diuxi.com

### **Norway**

Benum siv. ing. AS  
Østre Aker vei 68  
N-0581 Oslo  
www.benum.no

### **Poland**

DAVE s.c.  
ul. Dobra 28  
00-344 Warsaw  
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www.dave.pl

### **Romania**

Finro SRL  
68, Popa Savu Street  
District 1  
Bucharest 011434  
www.finro.ro

### **Singapore & Malaysia**

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1 Goldhill Plaza  
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**CEDAR**   
forensic

**CEDAR's live surveillance systems and powerful speech enhancement systems were developed for forces engaged in areas such as real-time audio surveillance, law enforcement, counter terrorism, border control, drug enforcement, military intelligence, as well as air and marine accident investigation. They are used worldwide by government and private agencies, and include field recorders with advanced evidential features, simple desktop processors that aid long-term listening and transcription, and powerful PC-based systems that offer the maximum power possible to overcome all manner of audio problems.**

## CEDAR Trinity™

CEDAR Trinity can be installed on any suitable PC or supplied pre-installed on rugged laptop systems, and combines long-term audio monitoring with powerful real-time speech enhancement, recording (with durations measured in years rather than days), event logging, and file verification that ensures that no-one has tampered with the recordings. The 8-channel recorder is an



invisible part of the system and is always active, even when the machine is asleep or you are not logged in, and will automatically resume recording after a reboot or when you turn the computer on. You don't even need to stop recording to listen to previous events. CEDAR Trinity allows you to return to times of interest, to loop sections of audio while enhancing the speech, and to log or transcribe these events while

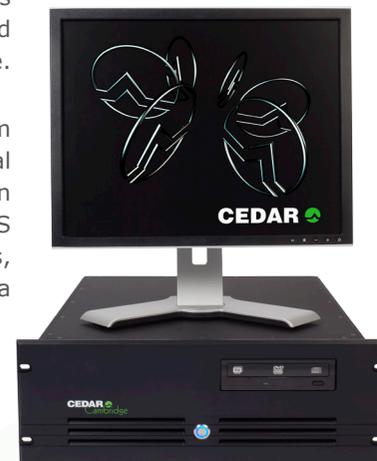
it continues to record. Then, you can catch up gradually with real-time events so that nothing is missed.

Of course, it would be better if many listeners could access each of the live feeds, perhaps with some monitoring events as they happen while others inspect past events of interest. That's no problem. Multiple CEDAR Trinity Satellite systems can be connected to any CEDAR Trinity host, allowing multiple users to address each of the audio streams, whether to monitor the incoming audio and perform real-time speech enhancement, or to listen to and enhance past events for logging and transcription.

It's a hugely powerful system, but its user interface has been made as simple and intuitive as possible so that surveillance personnel and transcription experts need no detailed knowledge of recording or enhancement to monitor and extract the maximum intelligibility from any part of an audio stream or CEDAR Trinity recording.

CEDAR Cambridge forensic systems can be shipped as turnkey configurations or customised to each user's specifications. All include our high-resolution spectrum analyser and a set of Adaptive Filters designed specifically for use in audio forensic investigation, integrating them into a single, user-friendly environment that can be translated into the local language when necessary, and all offer tools that maximise productivity and ease of use.

Every CEDAR Cambridge system can be expanded with additional broadband noise reduction packages, the unique DNS process, precise equalisers, adaptive limiting, declipping, a wide range of modules for removing different forms of buzzes, clicks, crackles, and thumps, plus the patented Retouch™ process, which allows users to eliminate all



manner of unwanted sounds and to accentuate wanted ones. What's more, users can launch and control multiple instances of each process simultaneously, applying multiple analysers and filters to each audio signal, applying individual processes to each channel, or even both simultaneously.

All CEDAR Cambridge systems include an 8-channel audio recorder offering variable speed playback, and a metadata editor for attaching and updating the text information included within the audio file itself. They can also generate reports that, as well as helping investigators to transcribe conversations and keep track of the processing applied to the audio, provide detailed information in a format that is simple for courts and other investigative bodies to understand. XML reports can be generated just as quickly and easily to help create databases for future data mining of words or events of interest.

When even greater throughput is required, the dedicated CEDAR Cambridge Server software allows users to specify multiple processing paths on a single system; for example, creating one path optimised for reducing air conditioning noise, a second for eliminating GSM interference, a third for removing electrical buzzes, and so on. These paths can then be used as batch processors, processing huge amounts of material without intervention. What's more, they are accessible to anyone authorised on the network connected to the system, thus allowing officers and agents with minimal audio experience to access and use its powerful filters successfully.

*Correct at time of going to press. E&OE.*

## Dialogue Noise Suppression

CEDAR's DNS units are self-contained desktop processors that boast fast and intuitive control surfaces, and they can be used successfully by officers and agents with no previous audio expertise.



Capable of reducing noise across the whole audio spectrum, they remove motor noise from covert recorders, eliminate electrical interference, and help to clean up recordings suffering from unfavourable acoustics and poor microphone placement. The flagship DNS3000 also offers presets, timecode and automation capabilities, so that it can be controlled by the video playback and analysis systems often found in forensic laboratories.