

### **CEDAR Audio Ltd**

20 Home End  
Fulbourn  
Cambridge CB21 5BS, UK  
www.cedaraudio.com  
forensic@cedaraudio.com  
+44 1223 881771

### **CEDAR Audio USA**

43 Deerfield Road  
Portland ME 04101-1805  
cedarusa@cedaraudio.com  
+1 207 828 0024

### **CEDAR Deutschland**

Görlitzer Str. 3  
D-49525 Lengerich  
Germany  
info@cedaraudio.de  
+49 5481 945087

### **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

### **China - Shanghai**

CDA Professional Audio  
Room 1308, Pudong Road  
South, Shanghai,  
China 1088  
www.cda-proaudio.cn

### **Czech Republic**

Forsolution Ltd  
Podnikatelska 553  
190 11 Prague 9  
www.forsolution.cz

### **Denmark & Sweden**

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

### **Poland**

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

### **Romania**

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

### **Singapore & Malaysia**

CDA Professional Audio  
70 Bendemeer Road  
#01-01A  
Singapore 339940  
www.cda-proaudio.com

### **Spain**

Fortier Europe S.L  
Calle Isla de Tabarca 9  
Boadilla del Monte  
Madrid 28660  
jppfortier@fortier-europe.com



**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 multi-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 Satellites** 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™

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 including the uniquely effective FNR and DNS processes, as well as 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 processors that boast simple and intuitive controls. As well as cleaning recordings to increase listenability, they can be used successfully in the field by officers and agents with no previous experience of noise suppression during live surveillance. They reduce noise across



the whole audio spectrum, removing motor noise from covert recorders, reducing or even eliminating many types of electrical interference, and helping to clean up recordings suffering from unfavourable acoustics and poor microphone placement.