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Correct at time of going to press. E&OE

# **CEDAR**

audio surveillance & communications

## CEDAR SE 1™

Two channels of advanced filtering and speech enhancement in a small, real-time device that sits in the audio surveillance chain between the microphones and the headphones, offering low latency and the simplest possible controls, making it ideal for covert surveillance and rapid tactical response in the field.

### Make your intelligence more intelligible

Police, security and counter-terrorism forces require covert audio surveillance systems that are rugged and simple to use while remaining as small and light as possible. The ability to run from battery packs is a bonus too. The SE 1 satisfies all of these criteria. Despite being small enough to fit into your pocket, its advanced audio processing capabilities allow field operatives to monitor audio, reduce noise and improve the listenability of audio captured in adverse conditions. It's

flexible too, with analogue and digital inputs and outputs as well as two independent headphone outputs for live monitoring directly from the unit itself. You can even take the input from a single probe and output two signals - the untreated audio and the filtered audio - so that courts and investigators can hear both versions of the signal available to the field agents.

Not just for law enforcement and security, the SE 1 can also be used in noisy environments such as call centres, air traffic control centres, casinos, and ships' bridges.

### The technology

The SE 1 offers two simultaneous processes that maximise listenability and intelligibility: a powerful noise suppressor based upon CEDAR's ground-breaking FNR noise reduction system, and a dynamic signal enhancement process optimised to reveal speech still further. It also incorporates a limiter to minimise output clipping distortion and to protect the hearing of listeners who may be monitoring at high levels under headphones.

Uses for the SE 1 include improving signal quality and intelligibility, enhancing the clarity of real-time communications, and making transcription easier and more accurate.



For more information

[www.cedaraudio.com/products/se1/se1.shtml](http://www.cedaraudio.com/products/se1/se1.shtml)

## CEDAR Trinity™

A robust audio recorder and playback system with unlimited channels that offers multi-user capabilities, speech enhancement, logging and verification, all contained within an intuitive user interface that can be used successfully by anyone - not just those with previous experience of computer based audio systems.

### The advanced surveillance system

CEDAR Trinity is a suite of products for law enforcement, security forces, prison services and other intelligence gatherers who require an advanced recording and speech enhancement system.

Depending upon the variant installed, it can monitor and record live feeds for days, weeks, months or even years, load existing audio files, replay and enhance all or any part of a recording, allow multiple users to access feeds and recordings, log and transcribe events of interest while continuing live recording, export audio to WAV files and audio CDs, archive audio, and verify the integrity of any CEDAR Trinity project or archive for evidential purposes.



Three primary variants are available. The **Server** is designed for monitoring, recording, enhancing and transcribing live audio feeds - in other words, it performs all of the tasks necessary to collect evidence while the event of interest is happening, and to provide immediate intelligence to rapid response teams.

**Satellites** allow multiple users to access feeds and recordings on a case-by-case basis across a local area network to perform the same tasks. The **Off-line** system is designed for use with existing audio and, together with the Server, can access and process audio files held on devices such as hard drives, memory sticks, CDs and DVDs. All three run on standard Windows PCs, laptops and tablets running 64-bit Windows® 7 or later.

### Speech enhancement

Every version of CEDAR Trinity includes four processes that suppress unwanted noise and enhance the wanted speech. These are based on flagship processes such as our adaptive filters and FNR, and provide effective speech enhancement with the minimum of controls so that anyone can increase the intelligibility of audio collected from difficult environments.



For more information

[www.cedaraudio.com/surveillance/cedartrinityoverview.shtml](http://www.cedaraudio.com/surveillance/cedartrinityoverview.shtml)