CEDAR

*It's all*

all you need to know about
audio restoration

on

*done*
*for you*

CEDAR
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# duo

automatic audio restoration

CEDAR


# CEDAR duo

**Whether you work with vintage audio, modern recordings, or even live sound, you encounter unwanted noise. This can take the form of clicks, crackle, and broadband noise.**

**Whatever the source and nature of the problem, you want it removed. Most importantly, you want it removed without causing any nasty side effects or introducing degradation of the 'real' sound.**

**That's why you need the CEDAR Duos. The audio performance of these two new boxes is remarkable, and they eliminate all manner of clicks, pops, crackle, electrical interference and broadband noise in real-time without damaging the wanted signal. The Duos are also incredibly simple to operate although, if you want to use them in more sophisticated environments, their ninety-nine memories and comprehensive remote control capabilities ensure that you can integrate them fully in your studio.**

## Set And Forget

In 1992, CEDAR achieved something previously believed impossible, introducing a digital, rackmount declicker that obtained remarkable results with minimal user-intervention.

Then, in 1994, we did it again, releasing a digital dehisser that needed neither a noise fingerprint nor a computer to provide a graphical user-interface.

Today, we have developed audio restoration to new heights of simplicity and efficacy. The Duos allow you to 'Set And Forget', finally making truly automatic declicking, decrackling and dehissing a reality.

## Declickle™


With modern technology, getting rid of clicks and crackle is relatively easy. However, getting rid of them without introducing unwanted artefacts and side effects is extremely hard, and there's only one processor that removes these problems correctly from all manner of signals, including such difficult sounds as brass instruments, solo strings, and human singing.

CEDAR's new declickle™ module offers a better impulsive noise detector and a better interpolator than any previous declicker or decrackler, providing a more open, natural sound than ever before. Its performance is so good that, in almost all cases, it is not possible to hear that the wanted signal was damaged prior to restoration.

Despite the power of the Duo declickle™ processor, its user-interface is very simple and quick to use, so excellent results can be obtained immediately, even by users with a limited knowledge of audio engineering.

## Auto Dehiss™


Truly automatic dehissing has long been the ambition of everyone involved in audio restoration and noise suppression. Well… here it is.

You can set up the Duo auto dehisser and leave it to remove copious amounts of noise without introducing unpleasant artefacts, and without requiring user-adjustment for each piece of music or speech that passes through it. Auto dehiss™ is therefore ideal for those occasions when there is no time to use a fully-featured CEDAR Cambridge™ system, or when you need something that you can simply place in the audio path and trust to provide excellent results with no complex configuration and minimal fuss.

The Duo auto dehisser offers exactly what you need… mastering quality noise reduction with no unwanted artefacts, but incredible simplicity of use.

*CEDAR Audio Ltd was established in 1988. Originally a research project funded by the British Library National Sound Archive and carried out at Cambridge University, CEDAR has gone on to become the world's leading audio restoration specialist… indeed, the only pro-audio company working exclusively to further the science and art of audio restoration and noise suppression.*
*With a string of awards, and the highest profile customers in the mastering, post, broadcast, film and audio forensic industries, as well as many national sound archives and libraries, CEDAR's reputation is second to none.*

*The algorithms in the CEDAR Duo series are adaptations of those we developed for our acclaimed CEDAR Cambridge™ audio restoration platform, the world's choice when only the most exacting standards are good enough.*

## Specification

**Sample rate:**
30kHz - 100kHz

**I/O Wordlength:**
16bit - 24bit

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

**Internal wordlength:**
40-bit, floating point

**Processing power:**
400MFLOPS (peak)

**Latencies:**
<5 samples (bypass)

*Declickle™*
190ms @ 44.1kHz

*Auto dehiss™*
463ms @ 44.1kHz

**Memories:**
99 user definable

**MIDI:**
In/Out/Thru
Full remote control

**Power supply:**
85 - 260VAC
50 - 60 Hz

**Consumption:**
15W

**Dimensions:**
45 x 483 x 240mm

**Weight:**
3kg (nett)
4kg (gross)