

Simple, effective measurement of noise
nuisance and environmental noise



Trojan
Noise Nuisance Recorder

 **Cirrus**
Research plc
dedicated to noise measurement

Designed to meet **your** needs

Designed to meet the needs of Environmental Health Officers, Housing Associations and anyone who needs to measure, monitor and record noise nuisance, the Trojan Noise Nuisance Recorder is both simple to use and easy to deploy.

After consultation with existing customers and users of noise nuisance recorders, we've included a range of standard features to help ensure you get the best from the equipment.

On the following pages, you'll find details of how these features can help you make effective noise nuisance measurements and recordings and how the Trojan can help make the most of your investment.



Features designed around our **customers** needs...

When we were designing the Trojan, we spoke to both existing and potential users to find out what was really important and which features they thought were essential.

The Trojan has been designed using these comments and feedback and on the following pages there are a few of the key points that we've incorporated following this research.



Quick, simple and easy to set up

When you are deploying a noise nuisance recorder, it's vital to know that you'll get good quality recordings and noise measurement data.

With the Trojan, there's no need for step-by-step instructions as it's just a matter of plug in, calibrate and you're ready to go.

If you forget to press start, the instrument will automatically start measuring after 10 minutes.

Wireless remote control

It may seem a simple thing, but having a wireless remote control was the most common request that came out of our research.

If your user has limited mobility or if the noise nuisance recorder is placed in a different room, being able to start and stop the kit without having to run back to the box can be very useful.

It can often be the difference between getting a useful, good quality recording and no recording at all.

The Trojan is supplied with 2 remote controls, either of which can be used with the kit, and we can supply additional units if you need to replace or add more and we can supply a wired hand switch if needed.

High quality, high resolution audio recording

The standard audio recording on the Trojan uses a 16bit/16kHz uncompressed WAV file.

This gives you plenty of frequency range (up to 8kHz) and a wide dynamic range (up to 96dB) so your audio recordings can handle both high and low levels with no loss of quality.

This is vital if you want to capture both low levels at night and higher levels during the day (such as doors banging or music playing) and be able to clearly identify what was the source of the noise.

There's no risk of overload or under-range in your measurements or audio recordings.

There's an option to store audio at 32bit/96kHz quality for the ultimate in fidelity and this may be useful if you are going to use the sound level meter out of the case.

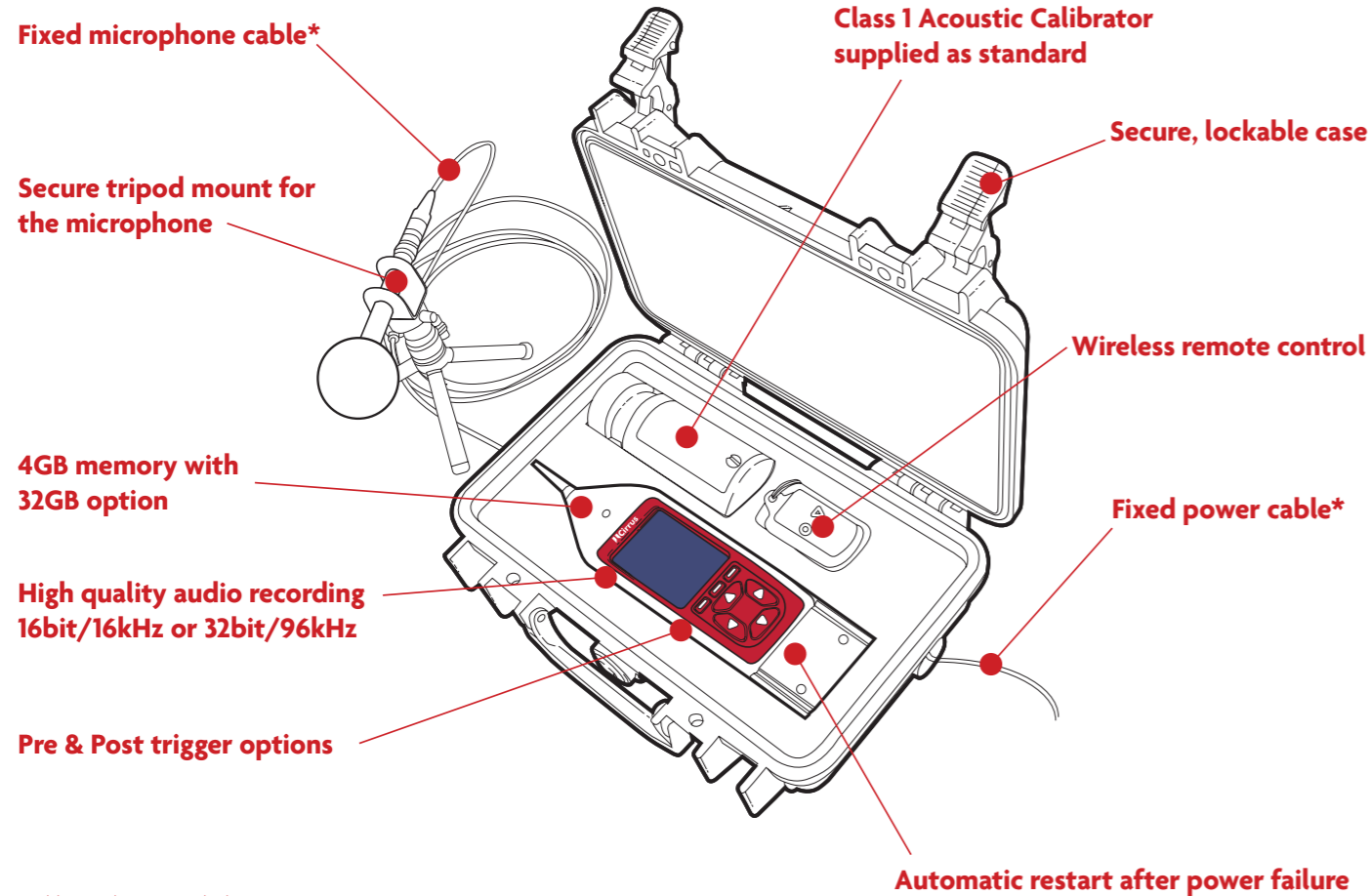
Fixed cables

Once the case is locked, the power cable and microphone cable are fixed so there's no risk of the cables being pulled out either accidentally or deliberately.

The worst thing that can happen is that the power cable is pulled out just after you've left so that you only get a few hours data until the batteries go flat.

The Trojan avoids these issues whilst maintaining the ease of use demanded by our customers.

Features designed around our customers needs...



*Cables can be removed when case is open

4GB memory

Each Trojan is supplied with a 4GB memory as standard. This is usually more than enough for most applications but it can be expanded with a 32GB option.

We don't use removable memory cards as there's a risk that they can be lost, corrupted or damaged. The quality of memory cards also varies hugely and with a growing market in fake memory cards you may not get what you pay for.

With the Trojan you can also guarantee the chain of data from the instrument to the software, a useful feature if you need to present measurements and recordings as evidence.

Pre & Post Trigger options

The pre and post trigger times for the audio recording can be set as needed. The pre trigger can be up to 30 seconds and the post trigger can be up to 60 seconds. Both of these can be disabled if your procedures require it but you get full control over what suits you best.

Licence free software

The NoiseTools software is supplied, as standard, free of charge and without any installation or licencing restrictions.

You are free to install the software onto as many desktops, laptops or servers as you need and there's no extra cost. Updates are free of charge as well so there's no on-going cost with the software.

15 Year Warranty

All of our noise measurement equipment is backed by our 15 year warranty.

Each time your instrument is calibrated by us, we'll extend the warranty by a further 12 months.

Don't forget that our warranty covers accidental damage as well as all of the accessories and options supplied with the kit.

Designed, Manufactured & Supported in the UK

The Trojan has been designed and manufactured by Cirrus at our factory in North Yorkshire from where we provide the support, training and backup direct to our customers.

This means that if you have any questions, you can speak to the team who designed the Trojan as well as having direct access to your sales contacts as and when needed.

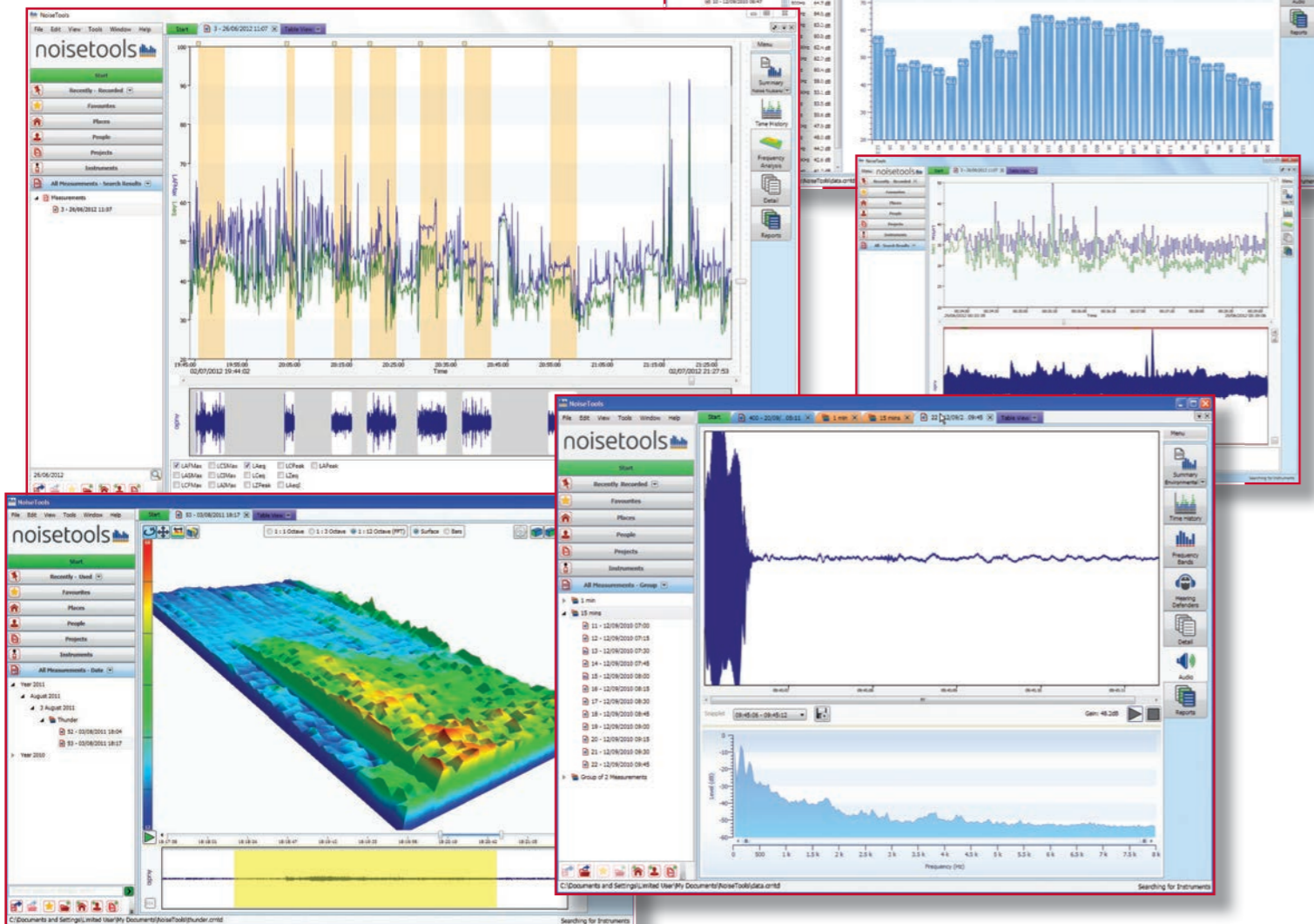
Automatic restart after power failure

The Trojan is designed to be mains powered (with secure cables) but it will switch to it's own internal batteries if the mains power is lost.

What's important is that when the power is restored, your noise nuisance recorder will start up again and continue to operate. The Trojan will automatically restart when the mains power is restored even if it's internal batteries are flat.



Cirrus noisetools software



The NoiseTools software

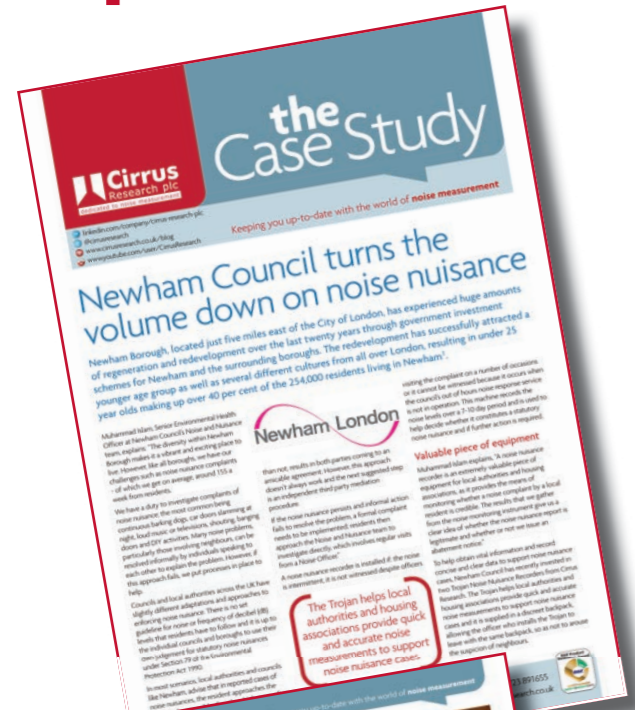
The NoiseTools software is a key part of the Trojan system and provides you with the ability to download measurements and recordings, view data and replay audio files directly from your PC.

The measurements are stored in a simple tree structure so you can easily find the information you need. You can tag data with a place, person or project to organise the information for later analysis.

If you're going to replay the audio recordings through speakers, NoiseTools has a calibration system built-in that lets you adjust the levels to accurately represent those at the time of the recording.

NoiseTools can be used with noise measurements and audio recordings made in either the Noise Nuisance mode or Hand-held mode and provides you with a powerful set of tools to view, analyse and store your information.

Best of all, NoiseTools is supplied free from any installation or licencing restrictions. There are no dongles, keys or special codes needed and you can install the software onto as many laptops, desktops or servers as you need at no cost.



“ It is vital that a noise measurement instrument is simple to use and that the measured noise is accurate. The Trojan does just that; it is simple to use and has the functionality that is necessary for noise nuisance to be accurately measured. ”

What our customers say...



Muhammad Islam, Senior Environmental Health Officer at Newham Council's Noise and Nuisance team, explains,

“A noise nuisance recorder is an extremely valuable piece of equipment for local authorities and housing associations, as it provides the means of monitoring whether a noise complaint by a local resident is credible. The results that we gather from the noise monitoring instrument give us a clear idea of whether the noise nuisance report is legitimate and whether or not we issue an abatement notice.”

To help obtain vital information and record concise and clear data to support noise nuisance cases, Newham Council has recently invested in two Trojan Noise Nuisance Recorders from Cirrus Research.

A fully featured sound level meter

- High resolution colour OLED screen with backlit keypad
- Repeating measurements for environmental noise monitoring
- 120dB dynamic range in a single span
- 4GB memory with 32GB option
- Simultaneous measurement of all parameters
- 16bit/16kHz or 32bit/96kHz audio recording
- Option of real-time 1:1 & 1:3 octave band filters from 6.3Hz
- AuditStore™, Acoustic Fingerprint™ & NoiseTools as standard
- Compatible with the CK:670 Outdoor Measurement Kit

The sound level meter in the Trojan can be quickly removed and used as a handheld instrument giving you two measurement tools in one.

Fully featured, the sound level meter will switch automatically between Noise Nuisance mode when it is in the case and Sound Level Meter mode, giving you a powerful noise measurement instrument to use for other applications.

The only options that you need to consider are if you need 1:1 and 1:3 octave band filters.

All of the other functions are standard including the high quality audio recording, repeating measurements, the high resolution OLED colour display and the 4GB memory.

The NoiseTools software can be used with measurement from the sound level meter and there's no restrictions on where and how you install NoiseTools.

The sound level meter can also be used with the CK:670 outdoor measurement kit to give you even more flexibility.



A little bit about Cirrus and what we do

Formed in 1970, Cirrus Research plc is a leading expert in the creation and production of noise measurement instruments. For over 40 years we've been specialising in the design and production of noise measurement equipment.

Our products cover a wide range of applications including occupational noise, environmental noise, noise nuisance, airport noise monitoring as well as OEM products.

Cirrus Research is a Key Sponsor of the Institute of Acoustics and is a member of the British Safety Industry Federation's Registered Safety Supplier Scheme



ISO 9001:2008
FM 531001



ISO 14001:2004
EMS 552104





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