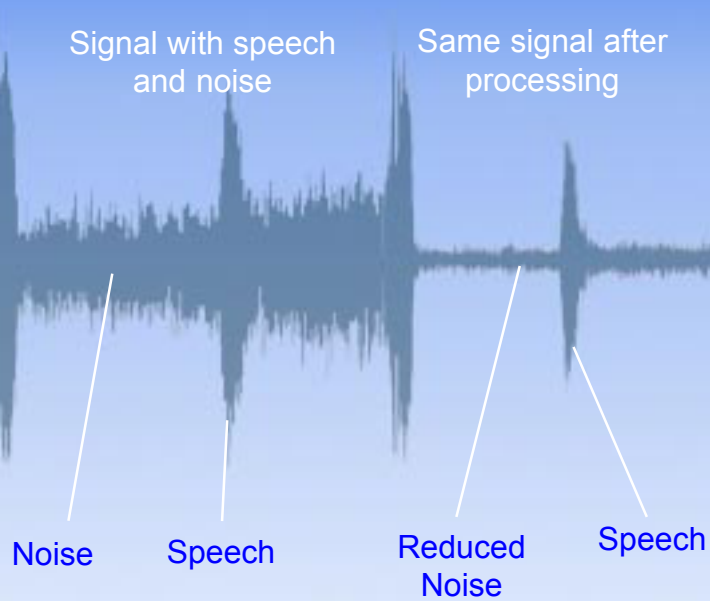


# Who?

bhi are a British design and manufacturing company specialising in Digital Signal Processing (DSP) noise cancellation products that greatly improve the intelligibility and clarity of speech.

# How?

The bhi DSP noise cancellation products work out whether the signal has speech or noise characteristics. If the signal has noise characteristics, then it is removed. Speech without noise remains virtually unaltered.



# What?

bhi noise cancellation products will remove noise and interference from speech. Whether the noise and interference originates from the transmission process, or is picked up by a microphone, bhi can clean the audio signal enabling the user to hear it clearly.

## bhi noise elimination products for.....

- ? Amateur radio
- ? HF,VHF,UHF communications
- ? Marine communications
- ? Surveillance, security and video
- ? CCTV
- ? Emergency services
- ? Military and covert communications
- ? Audio restoration
- ? Transport communications
- ? Hands free kits

and more.....



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# bhi

## DSP Noise Cancellation Products

Product overview. More information can be found at [www.bhi-ltd.co.uk](http://www.bhi-ltd.co.uk).

### NES10-2 Noise Eliminating Speaker.

Fully featured noise eliminating speaker for base station or mobile use.

**Features:**

- Fully adaptive noise cancellation
- Noise cancellation 9 - 35dB
- 8 user selectable levels
- Mono earpiece socket
- 12-24VDC operation
- Input sensitivity control
- Noise cancellation on/off switch.



### NES-5 Basic Noise Eliminating Speaker.

Basic noise cancelling speaker preset to 20dB noise reduction. Ideal for fixed channel comms.

Base station and mobile use.



**Features:**

- Noise cancellation 20dB
- Plug and Go operation
- 12-24VDC operation
- Fully adaptive noise cancellation

### NEIM1031 In-line module.

The in-line module provides increased flexibility with the following features.

**Features:**

- Fully adaptive noise cancellation
- Noise cancellation 9 - 35dB
- 8 user selectable levels
- Line level input/output
- Audio level input/output
- Audio bypass
- Mono earpiece socket
- 12-24VDC operation
- Input overload indication.
- Noise cancellation on/off switch



### PCB DSP Modules.

The bhi DSP noise cancellation technology is available on a range of PCB modules. The modules allow noise cancelling to be easily integrated into existing equipment, or designed into new products.

The modules are available in amplified and non amplified versions. All modules have 8 levels of noise cancellation 9 - 35dB.

#### NEDSP1061

Size 28mm x 36mm  
5 - 15VDC operation

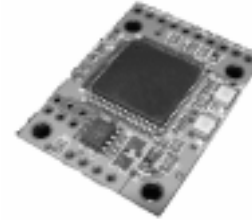
#### NEDSP1062

Size 28mm x 67mm  
12 - 15VDC operation

#### NEDSP1061



NEDSP1061-KBD



NEDSP1061-PCB

The NEDSP1061 is available with or without keyboard. The small keyboard allows the operator to select the noise cancellation level and turn the noise reduction on/off, all by the use of a single button. Four or eight levels of DSP noise reduction can be selected by the keyboard. A bi colour LED gives visual indication of the modules' status, along with audible indication.

Controls are provided for input level, output level and beep volume. An LED gives indication of audio overload.

#### NEDSP1062 (amplified version)

This module offers the same superb performance of the NEDSP1061, with the added benefit of an integral 2.5W audio amplifier. This enables the module to be fitted into a loudspeaker.

### PCB DSP Modules continued.

**Order codes:**

**NEDSP1061-PCB**

Basic signal level DSP module.

**NEDSP1061-KBD**

Keyboard operated signal level DSP module.

**NEDSP1062-PCB**

Basic amplified DSP module.

**NEDSP1062-KBD**

Keyboard operated amplified module.

### Accessories:

#### 1042 Switch box:

The 1042 switch box allows upto 6 pieces of equipment to be connected to one noise eliminating speaker or module. The switch box features 3 inputs loaded at 8ohms (to simulate a speaker load to the equipment), and 3 inputs unloaded for low level signals.



Front view of switch box



Switch box and NES10-2

#### 1031-STA

Fully adjustable stand for mounting the NEIM1031 in a comfortable position.



#### LSPKR

20W extension speaker for use with the NEIM1031.

**A full range of accessories and audio adaptors are available from bhi see website for details.**