# Active Noise Reduction Safety Earmuff

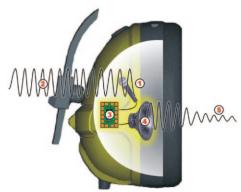
A new innovation in safety protection, the NoiseBuster® Active Noise Reduction Safety Earmuff combines superior passive hearing protection with the most advanced active noise reduction (ANR) technology. The NoiseBuster ANR Safety Earmuff is specifically designed for the industrial worker. It is also an excellent choice for do-it-yourself users of lawn mowers and power tools, as well as for motor sports fans when used in conjunction with scanners. You can even listen to your portable audio player while wearing your NoiseBuster ANR Safety Earmuff. The product has a passive Noise Reduction Rating (NRR) of 26dB (depending upon the model). Additionally the NoiseBuster delivers up to 20dB of ANR in the low frequency range. Get the highest-performing hearing protector available — at an unbelievably low price!



Model PA4000 - Over-The-Head

## What is Active Noise Reduction (ANR)? NoiseBuster ANR Safety Earmuff uses a micropho

NoiseBuster ANR Safety Earmuff uses a microphone inside the ear cup (1) to listen to noise coming into the ear (2). Using electronics (3), the system takes that information and uses it to create a noise wave that is identical to, but directly opposite of, the one coming into the ear. The "anti-noise" wave is output through a speaker (4), also located in the ear cup. When the two waves (the noise wave and the anti-noise wave) meet, the noise is significantly reduced (5).











## **ANR Protection**

ANR is the most effective defense against low-frequency noise. Low-frequency noise consists of powerful sound waves that can travel great distances and cannot be absorbed by conventional passive materials. Noises generated by engines, blowers, motors, fans, vacuums, pumps, generators and other similar devices are typically dominated by low frequencies—frequencies that cannot be stopped by passive earmuffs.

In addition to the detrimental effect it has on hearing, low-frequency noise creates another, perhaps even more serious effect. Because low-frequency noise masks speech, it is difficult for a person to hear and comprehend speech and warning signals when exposed to such noise.

NRR 26dB CSA Class A SLC (80) 29.2 Class 5

**PLUS 20dB ANR** 

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# Active Noise Reduction Safety Earmuff

#### **Features**

- Industrial grade, professional hearing protector
- On/off switch and power indicator
- Stereo input 3.5 mm audio jack
- Up to 65 hours of use on a single AA battery
- Adjustable headband
- Resistant to water and moisture, contaminants, mechanical shock and vibration

#### **Includes**

- NoiseBuster ANR Safety Earmuff
- One AA battery
- 3.5 mm audio interface cable
- Warranty 6 months
- User Guide

## **Specifications**

Storage temperature: -40C to +85C
Operating temperature: 0C to +55C

Audio cable length: 50cm (20 inches)

• Power: One AA battery



#### Model PA4000 - Over-The-Head

#### **Active Noise Reduction**

ANR performance range: Between 20Hz and 800Hz

ANR attenuation: Up to 20dB

#### **Attenuation Data**

NoiseBuster PA4000: ANSI S3.19-1974, testing by Dr. Kevin Michael & Associates, State College, Pennsylvania, USA

	Passive Attenuation												
Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA	*Active Noise Reduction Attenuation	
Mean Value, dB	17.5	22.3	30.6	37.3	34.7	40.2	44.6	43.7	44.9	26	Δ	Additional low frequency Noise	Up to
Std. Deviation	3.1	2.4	2.5	2.7	2.6	2.9	2.4	2.4	3.5	20	A	Reduction Between 20 & 800 Hz	20 dB

<sup>\*</sup>Active Noise Reduction (ANR) is the most effective defense against low-frequency noise.

NoiseBuster PA4000: AS/NZS 1270:2002, testing by Dr. Kevin Michael & Associates, State College, Pennsylvania, USA

Passive Attenuation										
Frequency, Hz	125	250	500	1000	2000	4000	8000	SLC (80)	*Active Noise Reduction Attenuati	
Mean Attenuation, dB	16.6	21.7	28.4	35.1	31.7	39.7	40.7	29.2	Additional low frequency	Up to
Std. Deviation	3.9	3.1	4.1	4.1	3.2	4.6	5.1	Class 5	Noise Reduction	20dB
Mean - Std. Deviation	12.7	18.6	24.3	31.0	28.5	35.1	35.6	Class 3	Between 20 & 800 Hz	

<sup>\*</sup>Active Noise Reduction (ANR) is the most effective defense against low-frequency noise.

## **Product Packaging Details**

Model/Part No: PA4000 UPC: 768235286001

Product weight: 16 oz. (with battery inserted) Individual Package dimensions: 9.0" x 8.5" x 4.5"

Individual Package weight: 1 lb., 8oz.

Master carton: 8 units

Master carton dimension:18" x 18" x 10" Master carton cube: 1.88 cubic feet Master carton weight: 14.5 lb.