

Active Noise Reduction Safety Earmuff

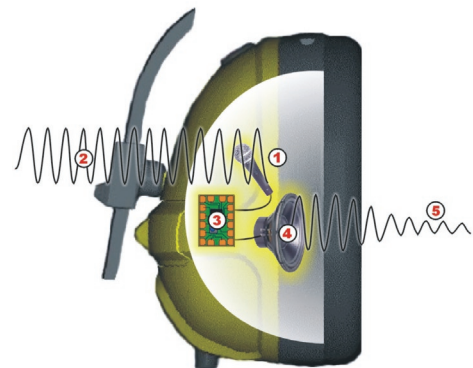
A new innovation in safety protection, the NoiseBuster® Active Noise Reduction Safety Earmuff combines superior passive hearing protection with the most advanced active noise reduction (ANR) technology. The NoiseBuster ANR Safety Earmuff is specifically designed for the industrial worker. It is also 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 PA4100 - Behind-The-Head

What is Active Noise Reduction (ANR)?

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 24dB
CSA Class A
SLC (80) 23.3 Class 4
PLUS 20dB ANR

PRO TECH TECHNOLOGIES, INC.
217 Westport Road, Willton, CT 06897
Tel 203.210.7230, Fax 203.210.7229

VISIT NOISEBUSTER.NET TO GET PROTECTED

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 Velcro 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
- Velcro headband
- Warranty - 6 months
- User manual

Specifications

- Storage temperature: -40C to +85C
- Operating temperature: 0C to +55C
- Audio cable length: 50cm (20 inches)
- Power: One AA battery



Model PA4100 - Behind-The-Head

Active Noise Reduction

ANR performance range: Between 20Hz and 800Hz

ANR attenuation: Up to 20dB

Attenuation Data

NoiseBuster PA4100: ANSI S3.19-1974, testing by Dr. Kevin Michael & Associates, State College, Pennsylvania, USA

Passive Attenuation										NRR	CSA	*Active Noise Reduction Attenuation	
Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000			Additional low frequency Noise Reduction Between 20 & 800 Hz	Up to 20 dB
Mean Value, dB	16.2	22.7	28.6	35.9	33.2	38.0	41.8	43.4	43.8				
Std. Deviation	2.9	3.0	3.1	3.6	2.7	4.3	5.0	4.3	4.9	24	A		

*Active Noise Reduction (ANR) is the most effective defense against low-frequency noise.

NoiseBuster PA4100: AS/NZS 1270:2002, testing by Dr. Kevin Michael & Associates, State College, Pennsylvania, USA

Passive Attenuation								SLC (80)	*Active Noise Reduction Attenuation	
Frequency, Hz	125	250	500	1000	2000	4000	8000		Additional low frequency Noise Reduction Between 20 & 800 Hz	Up to 20dB
Mean Attenuation, dB	11.9	17.7	22.3	30.1	28.0	36.2	37.0			
Std. Deviation	4.8	5.7	5.4	4.0	4.0	5.8	5.0	23.3		
Mean - Std. Deviation	7.1	12.0	16.9	26.1	24.0	30.4	32.0	Class 4		

*Active Noise Reduction (ANR) is the most effective defense against low-frequency noise.

Product Packaging Details

Model/Part No: PA4100

UPC: 768235286018

Product weight: 16 oz. (with battery inserted)

Individual Package dimensions: 9" 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.