

# PRODUCT GUIDE 2009



**Serving the Medical, Industrial  
and Recreational Marketplace**



# Product Guide for Hearing Protection/Enhancement

## HOW TO ORDER

1. **Give us a call** at (303) 447-2619 or call toll-free, (800) 525-2690.
2. **Send us an email** at [info@earinc.com](mailto:info@earinc.com)
3. **See your nearest provider** at a trade show or sporting event, or call us to find a provider in your area.
4. **[www.earinc.com](http://www.earinc.com)**  
All of our products are available at our website.
5. **Retail Stores.** Several E.A.R. products are now carried at a number of retail stores throughout the United States. Visit our website to find a retail store near you.

**For more information,** please contact our office at (303) 447-2619, or call toll free at (800) 525-2690. For complete product information, see our website.

**E.A.R./Insta-Mold, Inc.**  
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[www.freehearingtest.com](http://www.freehearingtest.com)  
[www.nyxsportslasses.com](http://www.nyxsportslasses.com)  
[www.freefitcheck.com](http://www.freefitcheck.com)



**E.A.R. Inc. is pleased to present our "Product Guide for Hearing Protection and Enhancement."** With over 35 years of experience, we have again accessed the highest levels of research and creativity to bring to you state-of-the-art technology.

### **New options include:**

- High Performance Digital Technology. 2 channel and 4 channel
- Lanyard Ready. Now units can be connected together
- Music Monitor Upgrades for Digital units. Permits client to use electronic ear protection for listening to high quality DIGITAL music.
- Multi-Memory for programming performance of audio input.
- Private Ear Upgrades for use in 2-way radio communications
- High Performance Music Monitors for professional and/or recreational use.

**Of particular importance is our ability to deliver high quality products with multi-functional applications.**

### **About E.A.R.**

E.A.R. Inc. (Insta-Mold Western Headquarters) is located in Boulder, Colorado, and has a worldwide network of providers for distribution and

service. E.A.R. was developed by Garry G. Gordon, M.S. (Audiologist) and his advisors to support the needs of major corporations attempting to comply with state and federal regulations regarding noise.

Soon a key marketing team was formed to distribute special instrumentation (audiometers, sound rooms, sound level meters and hearing protection systems, etc.)

E.A.R. Inc. then combined forces with Insta-Mold Products, Inc. to research, manufacture and internationally market high-grade silicones for the hearing industry. In fact, Insta-Mold is not only used by major corporations worldwide but also has been featured in two World Olympic events.

Then came the introduction of our new Chameleon Ears™ heat-curable silicones and our electronic hearing enhancement systems known as our E.A.R. Electronic Series.

E.A.R. Inc is pleased to offer you a professional array of high-quality products designed specifically to meet and exceed your hearing healthcare needs.

See [www.earinc.com](http://www.earinc.com) for complete information on styles, models, options & circuitry.

# Electronic Hearing Enhancement & Protection



**E.A.R., Inc.'s, family of electronic hearing protection** began over two decades ago, and continues to incorporate the latest in hearing enhancement technology and innovation. With this in mind, we are able to include features and options that allow us to build some of the highest quality products available in today's marketplace. This makes many of our units multi-functional to address differing situations like gunfire, wind and motor noise.

All of our units feature digital technology and programming. Digital circuits increase the processing of sound up to 20,000 times faster than analog circuits, giving the user a "natural" CD quality of reproduced sound without accenting unwanted background sounds such as common white-noise and feedback.

Digital technology has also made things easier for manufacturers to program and address hearing loss within individuals by manipulating circuit boards acoustically to bring out the best audio quality available.

We have designed four common styles each addressing budgetary levels and applications. Custom-fit units offer the best of both worlds as they are fit to each individual's ear for a comfortable fit and increased enjoyment for longer periods of time. The "off-the-shelf" units each hold their own benefits and advantages. Some are less visible and use washable silicone tips to stay in the ear. Some are worn behind the ear and can be used with custom-fit earplugs (bought separately).

Whatever you choose, we hope to bring a better experience to enhancing your outside sound levels while keeping your hearing protected during your active interests. For additional information and models, please visit our website or talk to your local provider.

**All Electronic Earplug Series feature certifiable compression and are sold as assistive listening devices, not hearing aids.**



**Custom-Fit Series**



**Mini-Canal Series**



**SHS Series**



**Quick Fit™**

**Options Include:**

- Lanyard Ready
- Music/Audio Upgrades
- Two-Way Radio Upgrades
- Select-a-Vent Upgrades

**Over 1600 Professional Locations Worldwide To Serve You**

# Non-Electronic Hearing Protection



**Shooting**



**Swimming**



**Industrial**



**Motor Sports**



**Sleep & Meditation**



**Medical/Dental**

## The Insta-Mold Process

has been utilized by the hearing healthcare industry for over 35 years. It is the only process written up in the Archives of Otolaryngology and Otolgy, and continues to be consistently recognized worldwide for its proven protection against extreme noise and water.

## Insta-Mold earplugs

are made "on-the-spot" and are customized to fit your ear with increased comfort, maximum attenuation value and greater convenience than most off-the-shelf ear protection products. When made correctly, they will provide a reliable "tissue-to-tissue" fit duplicating every crevice and contour of the ear. This allows the user to wear these earplugs for extended periods of time without discomfort, irritation or constant removal from the ear for reinsertion. This "ultimate fit" will also achieve the best attainable NRR rating, and provide the maximum in hearing protection for the individual user. Below is the actual noise attenuation chart performed by one of the most reputable testing facilities in the world. It accurately displays the amount of protection you will receive from a properly fit set of Insta-Molds through the common frequency spectrum.



## How Much Protection Can You Expect From a Well-Fit Pair of Insta-Mold Ear Protectors?

Frequency (Hz)	125	250	500	1000	2000	3000	4000	6000	8000
Mean Attenuations (dB)	25.1	30.2	33.2	34.2	36.1	37.9	40.8	42.0	40.4
Standard Deviations (dB)	1.7	3.7	3.8	2.3	3.7	4.7	4.3	5.0	3.6

All tests were conducted in accordance with ANSI (1974 and 1984) and EPA - 1979 Standards. Performed by: Michael J. Metz, Ph.D - Audiology Associates. Reviewed by: Garry G. Gordon, M.S. NRR (per EPA-1979) 29.8dB

With several color choices to choose from and the benefits of Insta-Mold's Insta-Seal Plus Seal Koter, you will love these earplugs for several years!

See [www.earinc.com](http://www.earinc.com) for complete information on styles, models, options & circuitry.

# Specialty Laboratory Ear Molds



**Specialty and filtered hearing protection and communication earpieces** are designed to address specific requirements or applications.

These include racing and law enforcement radio communications, musicians, stethoscopes, walkman and cell-phone usage, pilots and other various needs.

## **Chameleon Ear™ Earplugs**

These heat-curable ear molds have similar characteristics to our "On-the-Spot" Insta-Mold silicones, but have better qualities in durability and flex.

We can add acoustic filters to lower the overall NRR rating, but still retain harmful sounds to permissible levels. We can even make them glow in the dark!

**Musician's Filtered Plug.** Musicians practice and perform in a variety of settings and they are exposed to high levels of sound, sometimes for long periods of time. Each require different amounts of protection depending on the sound levels they encounter during rehearsals and performances.

**Acoustic Filtered Plugs.** These specialized patented filters are inserted into a custom mold to allow safe sounds, those below 80dB like normal conversation, to pass virtually unattenuated. For sounds higher than 80dB, these filters limit the sound attenuation to OSHA regulated requirements. Best used for industrial noise and shotgun sports where individuals want to hear conversation or auditory signals coming from machinery.

**Communication Earpieces.** The Skeleton-style earpiece is used by operatives in undercover occupations such as FBI, SWAT, police and security teams, as well as broadcast professionals such as field reporters and anchorpersons.

**Pilots Earpiece.** Pilots have several choices in headset communications. Two of the more popular boom mic systems are the lightweight Telex 5x5 Pro III and the Plantronics MS-50-T30-2. Both can work with a customized ear mold, which features an adjustable boom for microphone positioning.

**Racing Monitors.** In the amateur and professional racing circuit, communications is a must for pit crews and drivers. Relaying vital strategic plans, communicating current positions, and/or possible upcoming hazards on the track is an invaluable asset to a racing team's success.

**Ear-bud Ear molds,** available for music and cellular telephone headsets, increase the comfort of the generic unit and isolate the ear from harmful ambient noise. In effect, the user can decrease the volume of the audio source to reduce risk of hearing loss. For cell phone systems, "hands-free" operations provide safety while driving and are now required in several states.

**Water Sports Earplugs.** These water sport earplugs are used by many who want to hear some of their surroundings but keep water and cold air from entering their ears. These are great plugs for active individuals who are trying to prevent surfer's ear and other complications from water activities like ear infections and additional ear complications.



**Chameleon Ear™ Earplugs**



**Musician Filtered**



**Communication Earpieces**



**Pilots Earpiece**



**Racing Monitors**



**Ear Bud Ear Molds**



**Water Sports Earplugs**

**Over 1600 Professional Locations Worldwide To Serve You**

# Specialized Hearing System

For Hunters, Shooters, Law Enforcement

Not all styles and colors can be shown here. See [www.earinc.com](http://www.earinc.com)



## ELECTRONIC HEARING PROTECTION



**Full Shell**  
for the Advantage, Basic, Plus & Multimemory Models



**Half Shell**



**CIC**



**MiniCanal™**



**SHS Series**



**Quick Fit™**

## INSTA-MOLD™ & INSTA-PUTTY™



**Insta-Putty™ Earplugs**



**Insta-Mold™ Earplugs**

## THE O MIDDLE INNER

The Os  
Hammer, An



Custom Earplug

Ear Canal

Eustachian

## COMMUNICATION EARMOLDS



**Receiver Earmolds**



**Skeleton Earmold**



**SHS Combo Earmold**



**Bluetooth Earmold**



**Cell Phone/Walkman Mold**

## SAMPLE CHAMELEON EAR™ COLORS. Many other



**Black**



**Brown**



**Beige**



**Opaque White**



**Translucent**



**Pink Glitter**



**Purple Glitter**



**Black Glitter**



**Bright Pink**



**Dark Red**

**800-525-2690 ■ [www.earinc.com](http://www.earinc.com) ■ free**

# Products from E.A.R., Inc./Insta-Mold

for Professional, Military, Musicians and Industrial Applications

Visit [earinc.com](http://earinc.com) for complete information on styles, models, options and circuitry.

## OUTER, MIDDLE AND INNER EAR



### SPECIALTY LABORATORY EARMOLDS



iPlugz™ Monitors

Professional Music Monitors

Musicians' Filtered

Behind-The-Ear (BTE)

Water Sports Ear Plug

### EAR MUFFS AND PLUGS



Ear Muffs

Hex Pack™ Foam Earplugs



Racing/Raceceiver Mold

Pilots Earpiece

### CHAMELEON EARS™



Chameleon Ear™ w/Acoustic Filter

Chameleon Ear™ Solid Color

Chameleon Ear™ Swirl

Chameleon Ear™ Glitter

Chameleon Ear™ Glow

Other colors and color combinations are also available



Red Orange Yellow Bright Green Forest Green Blue Navy Purple Camo Red, White & Blue

# Music Monitors



**Z3 Professional Music Monitors**



**Z2 Professional Music Monitors**



**Competition Sports Monitors**



**iPlugz™**

**In-Ear-Monitoring Systems** have become the choice product for performing artists and recording studios for several years who have been looking to extend their abilities to hear crisper sounding audio while eliminating external background noise. Our Z-Series of Professional Grade Music Monitors are designed with precision and accuracy for greater highs, lower lows, and an overall enhancement to your musical experience.

This quality also holds true for our lines of Recreational Grade Music Monitors as active individuals try to enjoy their recorded audio without competing against high level ambient noise such as airplane engines, subways, excessive traffic noise, exercise machines, motorsports, etc.

**Professional Music Monitors.** Professional monitoring systems are designed to help stage professionals hear their music as they perform without distortion from other sources or competing against their surrounding noise levels. Many are built with additional transducers to divide the input audio signal into specific frequencies giving the monitors better dynamics to the audio range and making the audio as clear as possible to the user.

**Recreational Music Monitors** are significantly marketed to the recreational market. This includes, shooting, biking, exercising and training, and just general listening enjoyment. They are made with a single dynamic transducer which handles both the high and low ranges. These are great for individuals on the go and make a significant difference in hearing your audio when surrounded by louder external noise.

Custom-fit models will also help isolate the ear from harmful levels of ambient noise and lower the risk of a hearing loss as the user will not need to increase the input in order to hear the audio clearly.

These products are produced for the enjoyment of listening to audio and communication devices. Please remain aware of the dangers of listening to these devices at a loud volume level (85dB+). OSHA regulations state a volume of 80-85dB is safe for an eight hour period of time. If you are concerned about your hearing, please consult a hearing specialist who can advise you about your safety levels with your audio device.

See [www.earinc.com](http://www.earinc.com) for complete information on styles, models, options & circuitry.



# NYX Sports Vision System™

The **NYX Sports Vision System (SVS)** is designed to span the wide variety of conditions that sportsmen face, specifically focusing on brightness and contrast. **Brightness**, the property of light which makes you squint, is controlled by varying the total amount of light being allowed through the lens. **Contrast**, the property of light which allows you to differentiate colors and focus on an object, is controlled by varying the amount and type of color allowed through the lens.

**The NYX Sports Vision System.** Packages including your choice of stylish frames and several colored lenses, each designed for specific contrast and light conditions.

**Chrysalis Photochromic Lenses** that change automatically. Available in Comet, Talon and in the Arrow models.

**Interchangeable lens series.** E.A.R. has put together packages designed around the specific conditions faced by shooters, fishermen and golfers. Or, you can put together your own package from the available lens colors. (See [www.earinc.com](http://www.earinc.com) for details.)

**intraSPX™ Prescription Insert System.** NYX has teamed with Sved Optics to create the lightest and most complete sports optical system in existence. The patented intraSPX™ optical insert can be easily interchanged between the lenses of the NYX Sports Vision System. This gives sports enthusiasts who need vision correction the ability to adapt instantly to changing sunlight conditions.

- **Low Profile.** intraSPX™ utilizes a patented "lens suspension" prescription mounting system that keeps your sunglasses close to your face, enabling the frame to retain its fit, comfort, and style.
- **Lightweight.** The intraSPX™ system's patented design features rimless prescription lenses which eliminate the "second frame" common with other systems. This unique design, combined with our exclusive ORAD™ lens grinding process, guarantees you the thinnest, lightest sport optical insert system in existence.
- **Versatile.** intraSPX™ prescription inserts can be interchanged between any NYX frame and shield lens combination.

**Carrying Cases.** Interchangeable Lens Series packages are delivered in a sturdy foam-lined storage case including 3 lenses, 3 nosepieces (Classics and Arrows include one nosepiece) and a soft micro-fiber poly bag carrying case. Fixed Lens Series include one set of glasses, poly-cleaning cloth and single carrying case.

**Also Available:** Single Carrying Case, Cleaning Solution Spray, Large cleaning cloth, nosepieces, Soft microfiber poly bag carrying case.

**Customized Carrying Cases.** Promote your shooting club, team or organization with custom embroidered cases. Our state-of-the-art embroidery machines handle even the most intricate logos. For details and quantity pricing, call us, toll-free, at (800) 525-2690.



Over 1600 Professional Locations Worldwide To Serve You

# Tactical, Military, Law Enforcement



**Surveillance Systems**



**Throat-Mics**



**Headsets**



**Shoulder-Mics**



**Whisp-Ear™ EarMic Systems**

**1-Wire, 2-Wire and 3-Wire Surveillance Systems** are designed to address the need for covert, low-profile radio communications.

The 1-wire Tactical Surveillance System consists of a single wire and earset, allowing the user to receive transmissions from their radio in high noise environments and can be used in a wireless design with an induction loop attachment as well.

The 2-Wire Tactical Surveillance System is comprised of a PTT (push-to-talk) lapel-mic and an earphone listening assembly. Options for high-noise environments include an amplified earphone coil and multiple earpiece configurations. Wireless aspects also available.

The 3-Wire Tactical Surveillance System is comprised of a barrel switch or adjustable Velcro finger PTT, a lapel-mic and an earphone listening assembly. It can be used with our Private Ear™ wireless earpiece technology.

**Throat-Mic Systems** are extremely good options for the professionals using a breathing apparatus or requiring nothing in front of their mouth/face or over their head. They are designed with an adjustable elastic strap that fits around the neck and picks up communications through vibrations which can be as soft as a whisper or as loud as a shout. Can be used with custom earpieces for greater sound clarity in noisy environments.

**Lightweight Headsets** are designed for simple communication requirements without all the bulk or multiple radio cables. They are ideal for hospitality, retail, recreation, security, entertainment and any other applications that require non-obtrusive means for two-way radio communications. Can be used with custom earpieces.

**Shoulder-Mic Systems** have become commonly issued two-way radio communication equipment for law enforcement and security teams. In addition to their professional use, they are durable equipment for retail outlets, park security, range or outdoor facility management and general recreational activities.

**Whisp-Ear™ EarMic Systems** work well for the law enforcement tactical team, security detail or military unit looking for easy-to-use, multi-functional communications in a single design platform. Comfortable to wear for extended periods of time, this semi-custom earmic is compatible with several S.C.B.A. units and nomex/kevlar hoods. It is waterproof and dust tight for extra durability and applications within water or highly contaminated areas.

**Notice:** Please note, OSHA regulations state volume levels of 80-85dB are safe for an eight hour period of time. If you are concerned about the volume levels that you are using these systems with your radio, please consult an audiologist who can advise you about your safety levels with your audio device/communications. E.A.R., Inc. is NOT responsible for induced hearing loss due to user adjustments of increased volume levels within the ear.

See [www.earinc.com](http://www.earinc.com) for complete information on styles, models, options & circuitry.

## More Great Products & Services from E.A.R., Inc.

**RINGSTOP™** Do you hear a ringing or buzzing noise in your ears that doesn't go away? This maddening noise, called tinnitus, affects approximately 17% of the world's population. There's no known cure, but now there's hope with RingStop™, a new, safe, high-potency natural remedy. It contains the highest quality, all-natural homeopathic formula plus herbal extracts, amino acids, important antioxidants, and special vitamins.

**ProEar 2000™ Scuba Mask.** The world's only practical ear protector for divers, designed and developed by diving physicians, engineers and instructors to enhance diver safety and comfort. Its unique design allows divers to keep their ears dry, improves diver comfort, prevents painful ear problems, improves hearing and sense of direction underwater and simplifying equalization of pressures while diving.

**Ear Muffs** are available in both electronic and non-electronic models with many styles to choose from depending on your particular activity and requirements, including Behind the Head, and Over-the-Head models.

**Foam Earplugs** are available in several styles:

- **E.A.R. Classic™.** Classic yellow pillow packs available in bags of 25 pairs and boxes of 200 pairs. NRR 29
- **E.A.R. Express Pod Plugs™.** Convenient mushroom shaped earplugs available in bags of 25 pairs and boxes of 100 pairs. NRR 25
- **E.A.R. TaperFit 2™.** With a slightly tapered body, these foam plugs have excellent balance in blocking out noise. available in bags of 25 pairs and boxes of 200 pairs. NRR 32
- **E.A.R. soft FX™.** With the highest NRR rating from a NVLAP accredited lab, these "soft" taperfit earplugs are great for sleeping, motorcycle riding, shooting, etc. Available in bags of 25 pairs and boxes of 200 pairs. NRR 33
- **Hex Pack™.** An economical way to buy foam plugs. Its exclusive temperature sensitive slow recovery formulation insures a deep and effective seal with maximum comfort. After insertion, the plug quickly warms to body temperature and becomes soft and comfortable for long periods of use. Available in 60 pair "brick" packaging and bulk boxes. Includes a small carrying case for individual pairs. NRR 29

**Insta-Putty Silicone Earplugs** are made of high-grade silicone that is hypoallergenic and non-toxic. Insta-Putty helps prevent water from entering the ear while swimming, showering and bathing. It also reduces loud and annoying noises when used as directed. Available in one-pair and two-pair packages.



**RingStop  
Herbal Remedy**



**ProEar 2000™  
Diving Mask**



**SWAT-TAC™ Ear Muffs**



**Hex Pack™ Foam Plugs**



**Insta-Putty**

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E.A.R.Products are available from:



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