



# Hearing Protection



## Hearing Protection by 3M

Service beyond the product, solutions beyond the obvious, understanding beyond the function and knowledge beyond safety. You can buy 3M confident in the knowledge that our products will do the job and you can also be rest assured that our product range is backed by first class support materials and specialist advice, so you'll always know where to turn.

Hearing protection must be right for you and your situation. For safety, productivity and comfort, it must reduce noise by the right amount, not too little and not too much. 3M can provide solutions for different individuals and applications, with products ranging from disposable ear plugs to high-tech electronic ear muffs.

## Hearing Conservation

3M brings together the leading brands in hearing conservation. E-A-R, Peltor and 3M brands provide you with the most complete Hearing conservation programme to ensure detection of noise, protection for your employees and validation of their hearing protectors. All this for a single purpose : your safety.

Detection, protection and validation - now you have easy, single source access to the most complete line of industry-leading hearing conservation products:

**Detection**

**Protection**

**Validation**



**PELTOR®**



**3M**

# 3M™ Passive Hearing



## Noise Indicator

3M has introduced a new personal noise indicator solution that lets you know when the sound level reaches 85dB(A) and the need to wear suitable hearing protection.

A new personal information tool dedicated to raise noise awareness with employees. This can also be a perfect solution for training and motivational purposes.



Flashing red at over 85dB(A)



Flashing green at under 85dB(A)

## 3M E-A-Rfit™ Validation System

Stop guessing what protection levels your Workers are really getting from their earplugs.

Start knowing each worker's personal protection level and Validate that they are getting the protection they need.

Ear canal shapes are different.

Fitting methods are different.

That means protection levels may be different.

With the E-A-Rfit validation system, you can :

- Validate protection levels achieved by each worker
- Document data for future reference

## Test Compatible With A Variety of 3M™ Hearing Protectors.

Protection levels can be validated with many different 3M hearing protectors. This selection includes specially-probed versions of foam and premoulded earplugs.

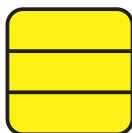
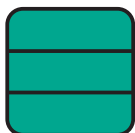


## 3M Optime™ Alert System

Our system uses a simple, logically coloured classification to make the selection process easy. Firstly find out what your noise level is, then look at the icons below and establish which noise band (RNR) your noise level falls into. Take note of the icon and choose from the wide range of products featuring the correct icon (see summary table on next page).

\*RNR = Recommended Noise Rating

The 3M Optime™ Alert system has been incorporated into the 3M SD-200 sound detector that highlights the appropriate 3M hearing protection required.





# 3M Optime™ Alert System by Product



## GREEN OPTIME™ ALERT SYSTEM NNR\* < 85dB(A)

Hearing protection is not compulsory but is made available to workers for their comfort and protection

Ultrafit 14 Earplugs - SNR 14dB  
E-A-Rflex 14 Earplugs - SNR 14dB



## YELLOW OPTIME™ ALERT SYSTEM 83 dB(A) - 93 dB(A)

You must assume you are above the permitted exposure level, hearing protection is compulsory.

E-A-Rsoft 21 Earplugs - SNR 21dB  
Ultrafit 20 Earplugs - SNR 20dB  
ClearE-A-R 20 Earplugs - SNR 20dB  
Tracer 20 Earplugs - SNR 20dB  
Ultratech Earplugs - SNR 21dB  
E-A-Rflex 20 Earplugs - SNR 20dB  
E-A-Rband Earplugs - SNR 21dB  
Caboflex Earplugs - SNR 21dB



## RED 1 OPTIME™ ALERT SYSTEM 87 dB(A) - 98 dB(A)

You are above the permitted exposure level, hearing protection is compulsory. Ideal for high frequency noise.

Classic Earplugs - SNR 28dB  
Express Earplugs - SNR 28dB  
1261/1271 Earplugs - SNR 25dB  
E-A-Rcaps Earplugs - SNR 23dB  
Flexicap Earplugs - SNR 23dB  
Pulsar Earplugs - SNR 23dB  
Swerve Earplugs - SNR 24dB  
1310 Earplugs - SNR 26dB  
Reflex Earplugs - SNR 26dB  
Model 5000 Earmuffs - SNR 27dB  
Optime I Earmuff - SNR 26/27/28dB (depending on the version)  
Bulls'eye I Earmuff - SNR 27dB  
H 31 Earmuff - SNR 27/28 dB (depending on the version)



## RED 2 OPTIME™ ALERT SYSTEM 94dB(A) - 105dB(A)

You are above the permitted exposure level hearing protection is compulsory. Ideal for high and medium frequency noise.

Classic Corded Earplugs - SNR 29dB  
Pro-Seals Earplugs - SNR 29dB  
Torque Earplugs - SNR 32dB  
Tri-Flange Earplugs - SNR 29dB  
Tracers Earplugs - SNR 32dB  
Ultrafit Earplugs - SNR 29dB  
Optime II Earmuff - SNR 30/31dB (depending on the version)  
PTL Earmuff - SNR 29/31dB Depending On The Version  
Bulls'eye II Earmuff - SNR 31dB



## RED 3 OPTIME™ ALERT SYSTEM 95 dB(A) - 110 dB(A)

You are above the permitted exposure level, hearing protection is compulsory. Ideal for all frequencies.

Classic Soft Earplugs - SNR 36dB  
Superfit 33 Earplugs - SNR 33dB  
1120/1130 Earplugs - SNR 34dB  
E-A-Rsoft Neons Earplugs - SNR 36dB  
E-A-Rsoft Blasts Earplugs - SNR 36dB  
E-A-Rsoft Metal Detectable Earplugs - SNR 36dB  
Solar Earplugs - SNR 36dB  
1100/1110 Earplugs - SNR 37dB  
E-A-Rsoft Fx Earplugs - SNR 39dB  
No-Touch Earplugs - SNR 35dB  
Push-Ins Earplugs - SNR 38dB  
Ultrafit X Earplugs - SNR 35dB  
Optime III Earmuff - SNR 34/35 dB (depending on the version)  
Bulls'eye III Earmuff - SNR 35dB



### PLEASE NOTE:

At levels above 95dB(A) you will need an accurate noise assessment to correctly select the product. Green and Yellow marked products are not suitable for use in low frequency noise.





## Roll Down PU Foam Earplugs

Our Roll Down Earplugs are made from expandable Polyurethane (PU) foam, which provides great comfort and good protection. The one size fits most ear canals. Once inserted in the ear, the foam plugs expand to provide a snug and secure custom fit. 3M provides a wide range of disposable roll down PU foam earplugs to choose from and to find the best solution for your individual needs.

### Features and Benefits:

#### Comfortable

- + Soft hypoallergenic foam material for lower pressure inside the ear
- + Smooth, dirt resistant surface for better hygiene, durability and comfort

#### Convenient

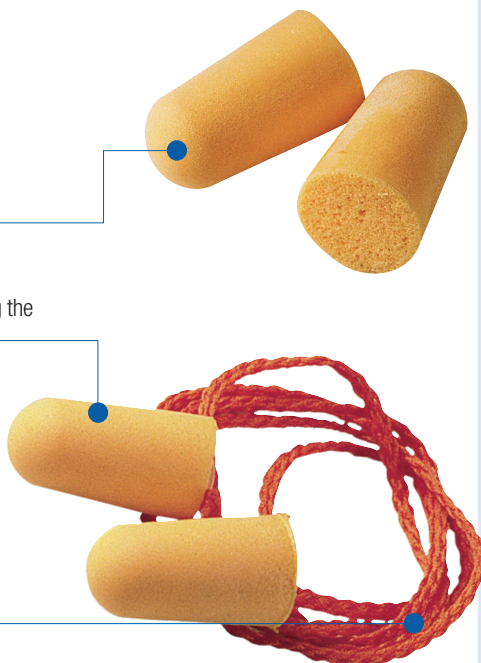
- + Tapered design fits most ear canals making the plugs easier to use
- + One size only
- + Dispenser available (1100)
- + Polyester cord (1110) helps prevent hearing loss

#### Effective

- + High SNR of 37dB

#### Compatible with

- + Designed to be compatible with other PPE



1100/1110

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	30.0	33.1	36.3	38.4	38.7	39.7	48.3	44.4
Standard Deviation (dB)	3.9	5.0	7.4	6.2	5.6	4.3	4.5	4.4
Assumed Protection (dB)	26.1	28.1	28.9	32.2	33.1	35.4	43.8	40.0

SNR=37dB H=37dB, M=34dB, L=31dB

### 3M™ 1100B and 3M 1120B Dispenser



Now 3M One-Touch dispenser also available to dispense 3M 1100 and 1120 ear plugs.

### E-A-R™ One-Touch™ Dispenser



### 3M™ 1100/1110 Disposable Earplugs

Available corded, uncorded and with dispenser

### Other 3M™ Disposable Earplugs

#### 3M™ 1120/1130 Earplugs

Especially designed for smaller ear canals  
Available corded, uncorded and with dispenser  
SNR 34dB



#### 3M™ Solar™ plugs

Colourful Earplugs  
Available corded, uncorded and with dispenser  
SNR: 36dB



#### E-A-Rsoft™ Yellow Neons and Blasts Earplugs

The E-A-R™ standard PU earplugs  
Available corded (Yellow Neons), uncorded and with dispenser. Compatible with E-A-Rfit™ validation system  
SNR: 36dB



#### E-A-Rsoft™ 21 Earplugs

The low attenuation disposable earplugs  
Only available uncorded.  
SNR: 21dB



#### E-A-Rsoft™ FX Earplugs

The highest attenuation  
Available uncorded.  
SNR: 39dB



#### E-A-Rsoft™ Metal Detectable Earplugs

The traceable disposable earplugs with cord.  
Compatible with E-A-Rfit™ validation system  
SNR: 36dB





# E-A-R™ Classic™ Earplugs

Classic earplugs are made from a soft energy absorbing polymer foam which provides excellent hearing protection and all day comfort. The famous Classic earplugs are roll down plugs and are available in multiple options to accomodate different wearer needs.

## Features and Benefits:

### Comfortable

- + Soft energy absorbing foam offers a low equilibrium pressure
- + Sweat and humidity resistant, helps prevent moisture build up in the ear canal
- + Design to fit majority ear canal sizes with optimum comfort and protection.

### Effective

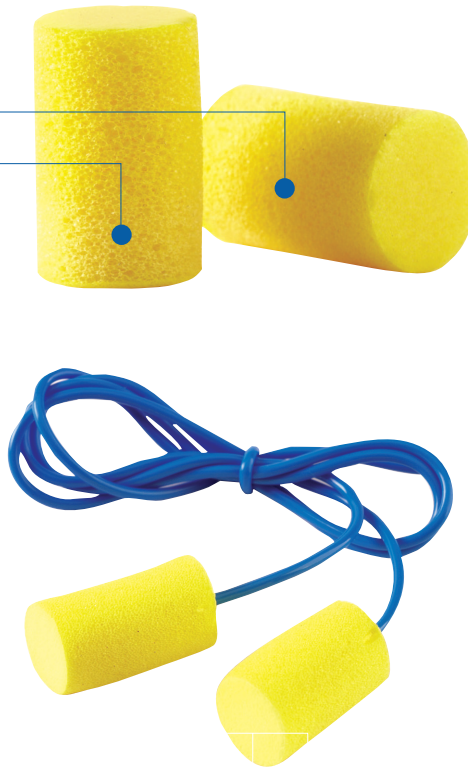
- + Exposed cell surface texture resists movement and helps maintaining an effective seal

### Convenient

- + Packed in a handy and resealable Pillowpack
- + Compatible with E-A-Rfit™ validation system to check Personal Attenuation Ratings

### Compatible with

- + Designed to be compatible with other PPE



Classic Earplugs (Uncorded version)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	22.3	23.3	24.6	26.9	27.4	34.1	41.6	40.4
Standard Deviation (dB)	5.4	5.3	3.6	5.4	4.8	3.1	3.5	6.4
Assumed Protection (dB)	16.9	18.1	20.9	21.5	22.6	30.9	38.1	34.0

SNR=28dB H=30dB, M=24dB, L=22dB

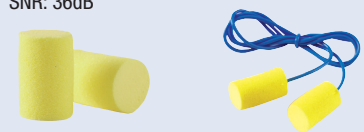
## E-A-R™ Classic™ Earplugs

Available corded, uncorded and with dispenser  
SNR: 28dB

## Other E-A-R™ Classic Products

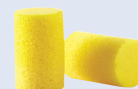
### E-A-R™ Classic™ Soft Earplugs

Softer Classic earplugs for increased comfort  
Available corded, uncorded and with dispenser  
SNR: 36dB



### E-A-R™ Classic™ Small Earplugs

Reduced diameter for smaller ear canals  
Only available uncorded  
SNR: 28dB

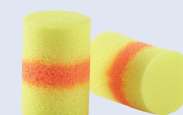


## E-A-R™ One-Touch™ Dispenser



## E-A-R™ Superfit™ 33

With exclusive fitting ring  
Available uncorded and with dispenser  
SNR: 33dB



# 3M™ Passive Protection



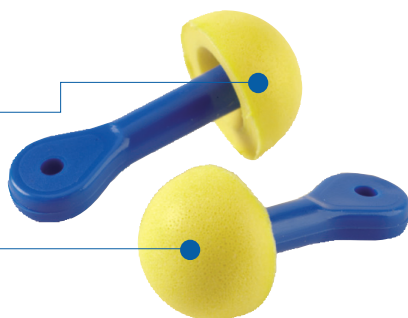
## Pod Earplugs

Pod earplugs are very easy to insert since there is no roll down needed: just use the soft flexible grip to push the earplug into position and achieve excellent protection. Because you do not have to touch the foam during fitting it is one of the most hygienic types of earplug available.

### Features and Benefits:

#### Comfortable

- + Unique pod design allowing the foam to compress easily
- + The plug slides gently into the ear and expands slowly
- + Patented E-A-Rform foam tip shaped and sized to mold comfortably fitting virtually every size ear canal



#### Convenient

- + Available corded or uncorded
- + No roll down required
- + Washable and reusable
- + The insertion stem eliminates the need to touch the tip: no need to clean your hands



#### Compatible with

- + Designed to be compatible with other PPE

### Express™

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	27.8	26.0	24.9	25.2	29.4	34.9	37.0	35.9
Standard Deviation (dB)	5.4	4.5	3.3	5.0	4.2	4.1	5.2	3.7
Assumed Protection (dB)	22.4	21.5	21.5	20.2	25.2	30.8	31.8	32.2

SNR=28dB H=30dB, M=24dB, L=22dB



### 3M™ Pistonz™ Earplugs

The earplug designed for motorsport and automotive segments  
Extra comfortable foam  
SNR : 25dB

### E-A-R™ Express™ Earplugs

Available corded, uncorded  
SNR 28dB

### Other Pod Plugs

#### E-A-R™ Pro Seals™ Earplugs

The pod earplugs with flexible stem  
Available corded  
SNR: 29dB



#### 3M™ Torque™ Earplugs

The tough pod plugs  
Available corded  
SNR: 32dB



#### 3M™ No-Touch™ Earplugs

The colourful pod earplugs  
Available corded  
SNR: 35dB



#### E-A-R™ Push-Ins™ Earplugs

The disposable pod ear plugs with high attenuation  
Available corded and uncorded.  
Compatible with E-A-Rfit™ validation system  
SNR: 38dB





# Pre Moulded Earplugs

Pre Moulded plugs are made from flexible materials that are preformed to fit the ear. They are generally available with a joining cord to prevent loss. These reusable earplugs are comfortable, hygienic and economical. No sizing is required for these patented, pre-moulded, triple flanged earplugs. Available in a variety of styles and protection levels.

## Features and Benefits:

### Comfortable

- + Unique and patented tri-flange design for a perfect fit and comfort
- + Easy to fit in the ear for a continuous and comfortable protection

### Effective

- + High attenuation (SNR: 29dB)

### Convenient

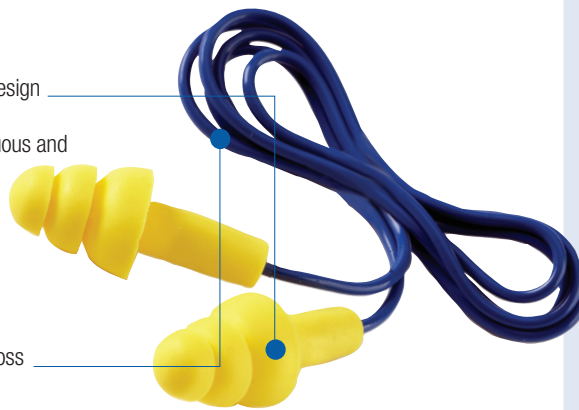
- + Available with a cord to prevent loss
- + Washable and reusable
- + Compatible with E-A-Rfit™ validation system to check Personal Attenuation Ratings

### Versatile

- + Different versions to various use : traceable, high and low attenuation versions

### Compatible with

- + Designed to be compatible with all types of PPE



**E-A-R™ Ultrafit™ Earplugs**  
SNR 29dB

### Other pre-moulded ear plugs

**E-A-R™ Ultrafit™ 14/20 Earplugs**

The low attenuation E-A-R™ Ultrafit™ versions  
SNR: 14/20dB



**ClearE-A-R 20™ Earplugs**

The "nearly" invisible earplugs  
SNR: 20dB



**E-A-R™ UltraTech™ Earplugs**

UltraTech earplugs greatly improve the ability to perceive speech, warning signals and machinery noise whilst reducing harmful noise levels effectively.  
SNR: 21dB



**3M™ 1261/1271 Earplugs**

The pre-moulded earplug with convenient storage case  
Available corded and uncorded  
SNR: 25dB



## ULTRAFIT™

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	30.6	29.1	28.6	30.1	30.9	32.2	37.7	41.1
Standard Deviation (dB)	5.1	5.3	5.7	6.2	5.6	2.7	6.8	3.4
Assumed Protection (dB)	25.5	23.8	22.9	23.9	25.3	29.5	30.9	37.7

SNR = 29dB H = 30dB M = 26dB L = 24dB APVf = Mf - sf

**3M™ Tri-Flange™ Earplugs**

Comfort and design  
Available with vinyl or cotton cord  
SNR: 29dB



**E-A-R™ Ultrafit X™ Earplugs**

The high attenuation pre-moulded earplugs  
Available corded  
SNR: 35dB



**E-A-R™ Tracers™ and Tracers™ 20 Earplugs**

Metal detectable version  
SNR: 32dB (20dB for Tracers™ 20)





# 3M™ Passive Hearing



## Banded Earplugs

Banded hearing protectors are easy to use, convenient and extremely comfortable. They are quick to insert and remove and can be stored around the neck when not required, making them ideal for intermittent use. Banded hearing protectors offer simplicity to help improve the choice of hearing protection products that best suits the work place environment. Most models are available with replacement pods making them a more cost-effective option.

### Features and Benefits:

#### Comfortable

- + Extremely light
- + Very low pressure into the ear
- + Pod plugs seal the entrance part of the ear canal with no deep insertion

#### Convenient

- + Can be worn in either Under-The-Chin (UTC) or Behind-The-Head (BTH)
- + Easy to use
- + Ideal for people moving in and out
- + Replacement pods available

#### Compatible with

- + Designed to be compatible with other PPE



E-A-RCAPS™ (In UTC mode)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	21.0	20.0	19.8	19.1	23.2	33.4	41.0	40.7
Standard Deviation (dB)	4.1	4.4	4.2	4.3	3.7	4.5	2.9	5.4
Assumed Protection (dB)	16.9	15.8	15.5	14.8	19.5	29.0	38.1	35.2

SNR=23dB H=27dB, M=19dB, L=17dB

#### 3M™ 1310 Earplugs

The high flexibility band  
Replacement pods available  
SNR : 26dB



#### E-A-R™ Reflex™ Earplugs

The multi-position banded earplugs with conical tips  
Replacement pods available  
SNR : 26dB



#### E-A-Rcaps™ Earplugs

Replacement pods available  
SNR 23dB

#### Other banded earplugs

#### E-A-Rflex™ 14/20 Earplugs

The low attenuation banded earplugs  
SNR: 14dB/20dB



#### E-A-Rband™ Earplugs

The ergonomic banded earplugs  
Replacement pods available  
SNR: 21dB



#### E-A-R™ Caboflex™ Earplugs

The banded earplugs with durable conical shaped insert  
Replacement pods available  
SNR: 21dB



#### E-A-R™ Flexicap™ Earplugs

The multi-position banded earplugs  
Replacement pods available  
SNR: 21dB



#### 3M™ Pulsar™ Earplugs

Design and ergonomics  
SNR : 23dB



#### E-A-R™ Swerve™ Earplugs

The high-end banded earplugs with adjustable band  
Replacement pods available.  
SNR : 26dB





# Peltor™ Optime™ I Earmuffs

Peltor™ Optime™ I Earmuffs offer versatile and lightweight protection with increased wearer comfort. The low profile design coupled with generous space inside the cups helps improve compatibility with other safety equipment and maximizes wearer comfort. Peltor™ Optime™ I is ideal choice for intermittent and prolonged usage. The wide, comfortable sealing rings are filled with a unique combination of fluid and foam, which gives optimum sealing and low contact pressure at the same time.

It is ideal for use in many work environments with moderate industrial noise, such as light engineering, automotive industry, sheet-metal working as well as outdoor leisure or hobby activities such as lawn mowing and woodworking, for example.

## Features and Benefits:

### Comfortable

- + Extremely low profile and light-weight design (180g) that helps improve compatibility with other safety equipment
- + Generous space inside the cup to help improving comfort
- + Soft and wide sealing rings filled with a unique combination of foam and liquid to offer optimum sealing and low pressure



### Effective

- + Moderate attenuation despite lightness and low profile design: 27dB SNR
- + Unique band design, stainless steel wire for constant pressure over long periods of use

### Versatile

- + Available in several versions including: Headband, foldable, neckband and helmet mounted versions. All versions are available in high visibility colours

**Peltor™ Optime™ I Headband**  
SNR: 27dB

### Accessories

**Hygiene kits are available for each earmuff version**

**Hygienic paper pads are available;**

Peltor Clean in two versions  
HY100A - 100 pairs on a roll in a dispenser,  
HY100A-01 - 20 packages x 5 pair in a dispenser).  
Same version for all ear muff models.

## Other Peltor™ Optime™ I Ear Muffs



**Peltor™ Optime™ I Neckband**  
No headband, offers excellent compatibility with other PPE equipment. SNR: 28dB



**Peltor™ Optime™ I Foldable Headband**  
Easy-to-store solution  
SNR: 28dB

### Peltor™ Welding Earmuffs

The first and only earmuff design for welders  
Fits into welding helmets  
SNR : 24dB



### Peltor™ Optime™ I Helmet attachment

Can be worn with a wide range of industrial safety helmets  
SNR: 26dB



### Peltor™ Optime™ I Hi-Viz

For workers in need of extra visibility, for example road workers and ground handling staff at airports. Available in all versions.  
SNR: 28dB



## Peltor™ Optime™ II Earmuffs

The Peltor™ Optime™ II has been developed for demanding noisy environments and is effective in reducing even extremely low frequency sound. The sealing rings are filled with a unique combination of liquid and foam. The result is an optimum seal with low contact pressure, which provides agreeable comfort even during long periods of use.

The sealing rings have ventilation channels and are covered with soft, patterned, hygienic foil. Optime™ II earmuffs are a suitable choice for

typical environments with substantial industrial noise or construction machinery, airports and agricultural work. The product is also available in a di-electric version without visible metal parts and in Hi-Viz green for workers who need hearing protection and to be extra visible – on road construction sites, airports or other high-risk workplaces.

### Features and Benefits:

#### Comfortable

- + Generous space inside the cup to help the ears breathe thus improving comfort
- + Soft and wide sealing rings filled with a unique combination of foam and liquid to offer optimum sealing and low pressure
- + Sealing rings with ventilation channels and covered with soft, patterned hygienic foil

#### Effective

- + High attenuation despite lightness and low profile design: 31dB SNR
- + Unique band design, stainless steel wire for constant pressure over long periods of use

#### Versatile

- + Available in several versions including: Headband, foldable, neckband and helmet mounted versions. All versions are available in high visibility colours



### Peltor™ Optime™ II Headband

SNR: 31dB

#### Accessories

Hygiene kits are available for each earmuff version

Hygienic paper pads are available;

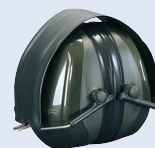
Peltor Clean in two versions  
HY100A - 100 pairs on a roll in a dispenser,  
HY100A-01 - 20 packages x 5 pair in a dispenser).  
Same version for all ear muff models

#### Other Peltor™ Optime™ II Ear Muffs



#### Peltor™ Optime™ II Neckband

No headband, offers excellent compatibility with other PPE equipment.  
SNR: 31dB



#### Peltor™ Optime™ II Foldable Headband

Easy-to-store solution  
SNR : 31dB



#### Peltor™ Optime™ II Hi-Viz Headband

For workers in need of extra visibility, for example road workers and ground handling staff. Available in all versions.  
SNR: 31dB



#### Peltor™ Optime™

**Push To Listen (PTL)**  
Optime™ Earmuff with a listening function. Just push the button to enable audibility of external sounds without the risk of any noise induced hearing damage.  
SNR: 31dB  
Also available in Hi-Viz and Helmet mounted version (SNR: 29dB)

#### Peltor™ Optime™ II Food industry Earmuff

Hygienic evolution of standard Peltor Optime II  
Easy to clean, moisture resistant  
SNR : 30dB



#### Peltor™ Optime™ II Helmet attachment

Can be worn with a wide range of industrial safety helmets  
SNR: 30dB





# Peltor™ Optime™ III Earmuffs

The Peltor™ Optime™ III is a high performance hearing protector that has been specifically developed for use in extremely noisy environments. The protection is based on a twin cup technology that minimise resonance thus significantly improving attenuation at high frequencies. An acoustic connection between the inner volume and the volume between the twin cup provides significant low-frequency attenuation. The sealing rings are broad and filled with soft plastic foam for best fit

and low contact pressure. The Peltor™ Optime™ III earmuffs stand for effective protection and highest comfort for the wearer. The product is also available in Hi-Viz green for workers who need hearing protection and to be extra visible – on road construction sites, airports or other high-risk workplaces.

## Features and Benefits:

### Comfortable

- + Generous space inside the cup to help the ears breathe thus improving comfort
- + Broad sealing rings
- + Sealing rings filled with soft plastic foam for the best fit and low contact pressure

### Effective

- + Very high attenuation: SNR of 35dB
- + Unique band design, stainless steel wire for constant pressure over long periods of use
- + Twin cup design that minimises resonance resulting in excellent high-frequency attenuation

### Versatile

- + Available in several versions including: Headband, foldable, neckband and helmet mounted versions. All versions are available in high visibility colours



**Peltor™ Optime™ III Headband**  
SNR: 35dB

### Accessories

**Hygiene kits are available for each earmuff version**

**Hygienic paper pads are available;**

Peltor Clean in two versions  
(HY100A - 100 pairs on a roll in a dispenser,  
HY100A-01 - 20 packages x 5 pair in a dispenser).  
Same version for all ear muff models.

## Other Peltor™ Optime™ III Ear Muffs



**Peltor™ Optime™ III Neckband**

No headband, offers excellent compatibility with other PPE equipment.  
SNR: 35dB



**Peltor™ Optime™ III Hi-Viz Headband**

For workers in need of extra visibility, for example road workers and ground handling staff at airports. Available in all versions.  
SNR: 35dB



**Peltor™ Optime™ III Helmet attachment**

Can be worn with a wide range of industrial safety helmets  
SNR: 34dB



# 3M™ Entry Level Sound Detection



## 3M™ Sound Detector SD-200 with Optime™ Alert System Linkage

### Easily Select hearing protection

The Sound Detector SD-200 is a compact, lightweight sound level meter designed to accurately measure workplace noise levels. Green, yellow and red LEDs flash the colour that corresponds to the Optime

Alert System, making it easy to select the appropriate level of hearing protection.

#### Features and Benefits:

- + Integrating feature computes the average sound pressure level; allows for more accurate assessment of intermittent sound levels
- + User-friendly interface; easy to operate
- + Rechargeable lithium polymer battery helps lower Total Cost of Ownership compared to the use of replaceable batteries
- + Average sound pressure level delivers steadier reading where noise levels are variable



Flashing LEDs match Optime Alert System

#### Easy to read screen:

- + Sound Pressure Level (SPL), Average value ( $L_{EQ}/L_{AVG}$ ), Optime Alert (with Hearing Protection icon), Maximum value 5MAX), Minimum value (MIN), Run-Time, Overload 5OL), and Under-Range 5UR)
- + 45 to 130dB 5Dynamic Range)
- + A or C

Easy five button operation

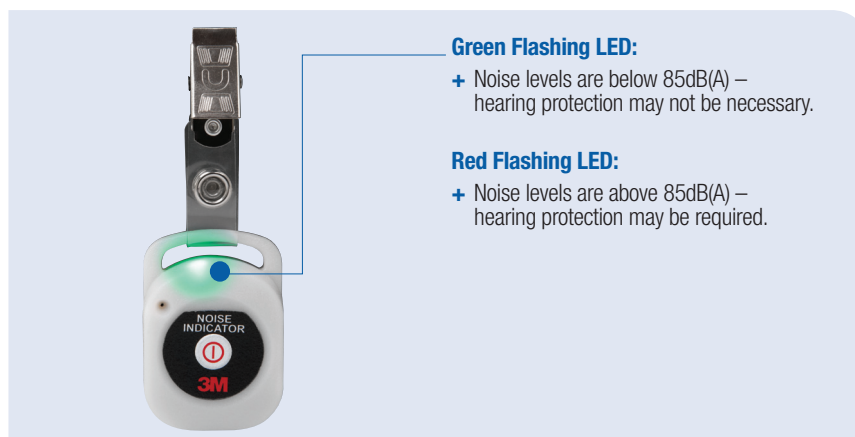
## 3M™ Noise Indicator NI-100

The 3M™ Noise Indicator alerts users to potentially dangerous noise levels, helping to identify areas where hearing protection may need to be worn. Users simply clip the Noise Indicator to a shirt or jacket; its LED light delivers a clear indication when noise levels exceed a potentially hazardous threshold.

The Noise Indicator's small size and lightweight design make it ideal for workers in a variety of industries.

#### Features and Benefits:

- + Clips to wearer's shirt or can be worn on a lanyard
- + Small size and lightweight, durable design
- + Easy to use, with a single button on/off switch
- + Rechargeable battery, with up to 200 hours between charges
- + Alerts users to potentially dangerous noise levels
- + Helps identify where hearing protection may be needed



#### Green Flashing LED:

- + Noise levels are below 85dB(A) – hearing protection may not be necessary.

#### Red Flashing LED:

- + Noise levels are above 85dB(A) – hearing protection may be required.

# 3M™ Sound Examiner™

NEW!



## 3M™ Sound Examiner™ Sound Level Meter SE-400

The Sound Examiner SE-400 series of sound meters are engineered to accurately measure noise levels in highly variable environments.

These advanced instruments compute the average sound pressure level

(LEQ/LAVG) over the run time, helping you to more accurately assess occupational and environmental noise levels.

### Features and Benefits:

- + Available in Class 1 Precision or Class 2 General Purpose models
- + Complies with IEC and ANSI Standards
- + Integrating-averaging measurements
- + All models ship ready-to-use, no setup necessary
- + Use 3M™ Detection Management Software DMS for the analysis, management and measurement of data

### Integrating Measurements, Robust Capabilities

- + **Display Languages:** English, Spanish, German, French, Italian, Portuguese
- + Display SPL, LMAX, LMIN, Peak, Lavg/ Leq, Elapsed Time



## New DMS Software: Data Management Made Easy

For Environmental Monitoring, Heat Stress and Sound Level Measurements, and Dosimetry.

The new 3M™ Detection Management Software (DMS) makes it easy to export, report, and share data from the SE-400 series sound meters, and other 3M Quest instruments. The software will help improve both efficiency and reporting of environmental data

- + Retrieve, download, share and save instrument data
- + Generate charts and reports
- + Export and share recorded data
- + Perform advanced calculations
- + Program, retrieve and view real-time data remotely via modem

### Detection Management Software:

One System supporting all these applications:

- + Noise Dosimetry
- + Octave Band Sound
- + Analysis/Survey
- + Thermal Comfort Monitoring
- + Integrating Sound Level Meter
- + Industrial and Community Sound Surveys
- + Heat Stress Monitoring
- + Indoor Air Quality Assessment



# 3M™ Passive Hearing



## 3M™ SoundPro™ Sound Level Meters SE/DL

The 3M™ SoundPro™ SE/DL series provides advanced sound level monitoring and comprehensive data analysis. Available in Class 1 and Class 2 models, these instruments feature real-time frequency analysis, and data storing capabilities that make it easy to post-process and evaluate workplace noise levels.

### Features and Benefits:

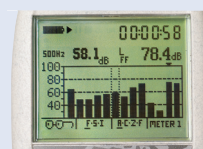
- + ANSI and IEC standards compliant
- + Available in Class 1 Precision or Class 2 General Purpose models
- + Concurrent A-weighted and C-weighted measurements
- + A, C, Z and F (Flat) frequency weighting
- + Fast, slow, and IEC impulse time response
- + Selectable thresholds 10 dB – 140 dB
- + Optional downloads to 3M™ Detection Management Software DMS offer analysis, management and measurement of data
- + Multilingual display in English, French, Spanish, German, Italian & Portuguese
- + Display SPL, Dose, Lavg or Leq, TWA, Max, Min, Peak, Exposure, Run Time, and more
- + Large screen display enables real-time frequency analysis
- + Easy to read back-lit display
- + Menu driven, 4 soft keys



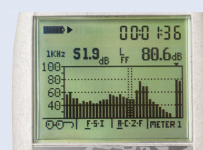
### Class 1 Precision and Class 2 General Purpose Models Available



**SPL Display**  
Quasi-Analogue and Numeric Screen



**1/1 Octave**  
Band Bar Chart Measurement Screen



**1/3 Octave**  
Band Bar Chart Measurement Screen

## SoundPro Outdoor Measuring System SP-OMS

The SoundPro Outdoor Measuring System helps protect the instrument from exposure to wind, rain, snow, chemicals, particulates, animals, vandalism and theft. It is also used for extended battery life with up to one week of continuous monitoring (two weeks with optional second battery).

### Other Options:

- Full (1/1) octave band real-time analysis
- Third (1/3) octave band real-time analysis
- Acoustic spectral curves option
- Speech intelligibility option
- Audiometric calibration kit configurations
- GPS data incorporation
- Optional microphones in 1/4", 1/2" & 1"
- Reverberation Time (RT-60)



## 3M™ The Edge Cable Free Noise Dosimeters

Now there's a new, more innovative family of personal noise dosimeters. Available in three models, The Edge offers advanced technology packaged in a cable-free, compact frame for a lighter, more ergonomic way to monitor noise levels.

With The Edge there's no cable to interfere with your employees' work, and no heavy instrument loading them down. This innovative dosimeter weighs a mere 3 ounces and features a thin, contoured shoulder mount. Users will barely notice it as they work; yet with easy downloading, simple.

### Features and Benefits:

- + Convenient cable-free design eliminates the microphone cable and potential to get in the way
- + Thin, contoured mount hugs the shoulder
- + Compact frame offers superior comfort small size and lightweight, durable design
- + Rechargeable lithium battery gives The Edge its long battery life
- + Downloads to 3M™ Detection Management Software DMS offer analysis, management and measurement of data
- + Display SPL, Dose, Lavg or Leq, TWA, Max, Min, Peak, Exposure, Run Time and more
- + The Edge eg5 has 3 independent dosimeters, is intrinsically safe and offers simultaneous C-weighted and A-weighted measurements.
- + Displays SPL, Dose, Lavg or Leq, TWA, Max, Min, Peak, Exposure, Run Time and more
- + 1 or 5 bay docking stations offer quick, easy recharge and data download to a PC



### Two Affordable models:

- + The Edge **eg5** has **3 independent dosimeters** and data logging. It stands apart as an **intrinsically safe dosimeter** that offers simultaneous **C-weighted and A-weighted** measurements.
- + The Edge **eg4** advanced model has **dual dosimeters and data logging/time history**.