金海納集团
J&Y GROUP


www.cn-safety.com

**GuangDong J&Y Industrial Co., Ltd.**
**Guangzhou J&Y Safety Products Manufacturer Co., Ltd.**
Headquarter Add: No.285 Juhuashi Rd,Huashan Town,Huadu District, Guangzhou,Guangdong,China

**J&Y SAFETY (M) SDN. BHD.**
Oversea Plant Add: No. 3 Jalan Modal 23/2, Kawasan Miel, Seksyen 23, 40300 Shah Alam, Selangor Darul Ehsan.(Malaysia)

TEL: 86-20-36853918 FAX: 86-20-36853898
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E-mail: jysafety@cn-safety.com


# 2026 -2027

Earplug

Earmuff

SCAN THE CODE TO
DOWNLOAD E-CATALOGUE

J&Y SAFETY

To be the most professional manufacturer of Head Protection Products!

J&Y GROUP



## Headquarter Plant Guangdong J&Y Industrial Co., Ltd. (China)

# COMPANY PROFILE

Guangdong J&Y Industrial Co., Ltd. (Main plant) founded in 2008.It is apecialized enterprise deeply engaded in the field of personal head protection products. The company has accumulated years of industry experience and strategic growth. Headquartered at No. 285 Juhuashi Road, Huashan Town, Huadu District, Guangzhou, the company benefits from a superior geographical location-just 15-minutes drive from Guangzhou Baiyun International Airport.With over 1,000 employees and a manufacturing facility spanning 30,000 square meters, Guangdong J&Y integrates R&D, productions, and sales into a modern, vertically integrated operation. More than 800 production line employees , 100 management personnel and 40 engineering R & D personnel. We has uccessively obtained more than 118 patents and "high tech enterprise certificate". The main products are PU earplugs, Reusable silicone and TPE earplugs, Passive /electronic earmuffs, Communication earmuffs, Safety glasses, Goggles Masks, Safety helmets and Half masks etc. The products are mainly used for personal protection,including factories, mines, military, aviation, tourism, sports, medical and daily use.

The company adheres to the business philosophy of "being the most professional head protection manufacturer in China", pays attention to talents, strict management and product passing; ISO90001 / ISO13485, European CE certification, American ANSI certification and Australian AS / NZS certification.

The company has independent import and export rights, 80% of the products are sold to the United States, Europe, Australia, Japan, Hong Kong and Taiwan, etc., the company is recognized by new and old customers with high-quality product performance, affordable price and good after-sales service.

The company has been committed to: the pursuit of excellent quality, sincere service to customers! Has been committed to the head of security products in the field of excellence! Has been committed to creating value for customers!

| 2008 | 1000+ | OEM & ODM | 30,000M² | 56,000M² |
|---|---|---|---|---|
| FOUNDED | EMPLOYEE | SERVICE | FLOOR AREA | BUILDING AREA |


## Oversea Plant J&Y SAFETY (M) SDN.BHD. (Malaysia)

# COMPANY PROFILE

J&Y SAFETY (M) SDN. BHD. is located in Shah Alam, Selangor, near Kuala Lumpur, Malaysia.covering an area of 2,000 squaremeters and a construction area of more than 4,000 squaremeters. There are more than 30 production front-line employees and management personnel, and a total of 10 engineering R&D personnel teams.

Main products: PU earplugs, silicone earplugs, protective earmuffs, electronic earmuffs, communication earmuffs, and safety helmets, etc.

| 2024 | 40+ | OEM & ODM | 2,000M² | 4,000M² |
|---|---|---|---|---|
| FOUNDED | EMPLOYEE | SERVICE | FLOOR AREA | BUILDING AREA |



J&Y GROUP

## EARPLUGS WORKSHOP


## EARMUFFS WORKSHOP

# J&Y GROUP







# J&Y GROUP

SAI GLOBAL · BSCI Business Social Compliance Initiative · CE · AS/NZS certified products · ANSI

Sedex: ZC5000059477

FDA :10054875 · ISO 9001 · Supplier Assessment · SGS

Australian Standard AS/NZS 1270:2002 SMK40540

Australian Standard AS/NZS 1337.1: 2010 SMK40575

- CE EN 352
- Test By Michael Associates Inc.
- Certification Notified Body: SATRA Technology Europe Limited.
- Notified body Number : 2777

- ANSI S3. 19-1974
- AS/NZS 1270:2002
- Test by Michael Associates Inc.

Eyewear compliant with
- EN ISO 16321-1:2022
- ANSI/ISEA Z87.1:2020
- AS/NZS 1337.1:2010

J&Y GROUP

UNIVERSITY OF GEORGIA

Center for Applied Isotope Studies
120 Riverbend Road
Athens, Georgia 30602
TEL 706-542-1395 | FAX 706-542-6106
biobase@uga.edu
www.cais.uga.edu

Certificate of Analysis

September 22, 2025

Feng Chen
Guangdong J&Y Industrial Co., Ltd.
No.285 Juhuashi Rd, Huashan Town
Huadu District, Guangzhou
China 510880

Listed below are the results for the ASTM method D6866-24 Radiocarbon ($^{14}C$) determination with the stable carbon isotope ratio ($\delta^{13}C$) analyses and their correction for the following sample received by our laboratory on 8/13/2025 and completed on 8/25/2025. This revision includes a change to the product name, but the results have not changed from the original report "GUANGDONGJ&YINDUSTRIAL_2_4183" dated 8/28/2025.

| Sample ID/USDA# | $^{14}C$ (Meas.) | | $\delta^{13}C$ | $^{14}C$ (Corr.) | % Biobase | |
|---|---|---|---|---|---|---|
| | (pMC) | SD | (o/oo VPDB) | (pMC) | Carbon | SD |
| PU Earplug, USDA# 15776 | 26.92 | 0.15 | -25.21 | 26.93 | 27 | 1 |

Percent Biobased Carbon is determined from the measured $^{14}C$ in percent Modern Carbon (pMC) and corrected for isotopic fractionation based on measured $\delta^{13}C$ value (o/oo V-PDB). The corrected $^{14}C$ activity in pMC is then divided by the 2025 reference $^{14}C$ activity of 99.4 pMC, which represents the equivalence to the 1950 $^{14}C$ reference activity of 13.56 dpm/gC corrected for bomb-produced $^{14}C$, and finally multiplied times 100. The % Biobase Carbon and Standard Deviation (SD) are rounded to the nearest integer. Measured $^{14}C$ is normalized using NIST Standard Reference Material 4990C Oxalic acid.

Authorized by,

Michael C Marshall, PhD
Assistant Research Scientist & Quality Manager
Natural Products and Biobase Testing Laboratory
C.A.I.S. Invoice No.: [NPI260207]
Certificate#: [GUANGDONGJ&YINDUSTRIAL_2_4183_REV1]

*The University of Georgia Center for Applied Isotope Studies is accredited to ISO/IEC 17025:2017 standard by PJLA, Inc.*

*The University of Georgia is an Equal Opportunity, Affirmative Action, Veteran, Disability Institution*

Page 1 of 1

ISO/IEC 17025:2017 PJLA Testing Accreditation No. 87144

# NEW ARRIVAL

# SUSTAINABLE BIO-BASED EARPLUGS

BIODEGRADABLE EARPLUGS

**BEGINNING OF LIFE**

REPLENISHABLE SOURCE

SUSTAINABLE MATERIAL

$CO_2$ EMISSION REDUCTION



# Earplug Application Range And Instructions.

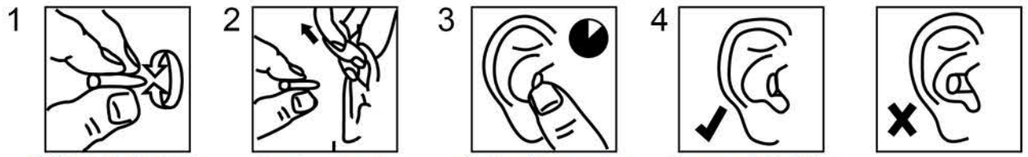
J&Y

## Hearing Protection by J&Y

All earplugs we produced are with premium quality, raw material original from Germany.
They are tested by the authoritative Laboratory of NVLAP certification in US.

## User Instruction for PU foam earplugs

The best rebound time in the ear canal is around 30-40 seconds under human body temperature, neither too fast nor too slow as it allows the plug fully insert the ear canal. However, rebound time will vary with the ambient temperature goes too hot or too cold when fitting the earplug.




1 Roll to a small crease-free cylinder
2 Insert as shown
3 Hold until expansion
4 Ensure suitable fitting

## Earplug Dispenser

With the Ear Plug Dispenser Plug station, you can afford to put earplugs in all the places they're needed. Available in 250 and 500 pairs per dispenser, Plug Stations increase compliance thanks to their high visibility construction.

**ED-250** with 250 pairs earplugs | **ED-250S** Refill

**ED-500** with 500 pairs earplugs | **ED-500S** Refill

FITS: EC-1001A / EC-1003A / EC-1005A / EC-1006A / EC-1007A / EC-1008A

- Sold as 250/box / 500/box
- Earplugs dispenser eliminates the need for individual paper/polybag packaging, good for environment.
- Convenient, dispenser delivers one uncorded foam ear plug with a gentle turn.Earplug drop right into the palm of your hands or tray, no need to worry about the earplugs falling on the floor
- Free-standing or wall-mounted
- Made from ABS plastic, PVC Free & durable


ED-250S ED-250 ED-500 ED-500S

**ED-200** with 500 pairs earplugs | **ED-200S** with 250 pairs earplugs

NEW

FITS: EC-1001A / EC-1003A / EC-1005A / EC-1006A / EC-1007A / EC-1008A

- Sold as 250/box / 500/box
- Unique and innovative product design
- Disposable and replaceable concept
- Designed for sustainability

## EC-1001A
## EC-1001A-C
## EC-1001A-C-D (Metal Detectable)


EN 352-2:2020
**SNR 38dB**

ANSI S3. 19- 1974
Noise Reduction Rate **NRR 32dB**
AS/ NZS 1270: 2002
**SLC(80) = 26.1dB CLASS 5**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 30.1 | 34.2 | 41.0 | 41.7 | 38.2 | 45.2 | 45.7 |
| Standard deviation Sf [dB] | 3.9 | 4.0 | 4.1 | 4.7 | 3.0 | 4.1 | 4.6 |
| APV Mf-Sf [dB] | 26.2 | 30.2 | 36.9 | 37.0 | 35.2 | 41.0 | 41.1 |

| SNR=38dB | H=37dB | M=36dB | L=32dB |
|---|---|---|---|
| $SNR_m$=40.8dB | $H_m$=40.1dB | $M_m$=39.5dB | $L_m$=36dB |
| $SNR_s$=2.9dB | $H_s$=2.9dB | $M_s$=3.2dB | $L_s$=3.6dB |

**Features and Benefits:**

**Comfortable**
Soft PU foam material for low pressure inside the ear
Slow rebound allows fully attach to ear canal
Design to fit majority ear canal with premium comfort and protection

**Convenient**
Bullet design fits most ear canals making the plugs easier to use
Dispenser available (ED-250, ED-500)
Nylon cord or PVC cord helps prevent earplugs loss


EC-1001A

## EC-1001AS
## EC-1001AS-C

ANSI S3. 19- 1974
Noise Reduction Rate **NRR 26dB**
AS/ NZS 1270: 2002
**SLC(80) = 16dB CLASS 2**

EN 352-2:2020
**SNR 34dB**

EC-1001AS

## EC-1003A
## EC-1003A-C
## EC-1003A-C-D (Metal Detectable)

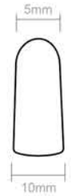

**Features and Benefits:**

**Comfortable**
Long tapered-bullet design,excellent protection against industrial-environment noise
Soft PU foam material for low pressure inside the ear
Slow rebound allows fully attach to ear canal
Design to fit majority ear canal with premium comfort and protection

**Convenient**
Bullet design fits most ear canals making the plugs easier to use
Dispenser available (ED-250, ED-500)
Nylon cord or PVC cord helps prevent earplugs loss

EN 352-2:2020
**SNR 37 dB**

ANSI S3. 19- 1974
Noise Reduction Rate **NRR 32dB**
AS/ NZS 1270: 2002
**SLC(80) = 26.4dB CLASS 5**




| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 28.7 | 32.2 | 39.6 | 40.5 | 37.9 | 42.2 | 46.3 |
| Standard deviation Sf [dB] | 3.6 | 5.2 | 5.4 | 4.3 | 2.9 | 3.1 | 5.4 |
| APV Mf-Sf [dB] | 25.1 | 27.0 | 34.2 | 36.2 | 35.0 | 39.1 | 40.9 |

| SNR=37dB | H=37dB | M=35dB | L=30dB |
|---|---|---|---|
| $SNR_m$=39.5dB | $H_m$=39.4dB | $M_m$=38.1dB | $L_m$=34.0dB |
| $SNR_s$=2.5dB | $H_s$=2.5dB | $M_s$=2.9dB | $L_s$=3.6dB |





## EC-1005A
## EC-1005A-C

**Features and Benefits:**

**Comfortable**
Soft PU foam material for low pressure inside the ear
Slow rebound allows fully attach to ear canal

**Convenient**
Dispenser available (ED-250, ED-500)
Nylon cord or PVC cord helps prevent earplugs loss

**Compatible with**
Designed to be compatible with earmuffs or other PPE

EN 352-2:2020
**SNR 35dB**

ANSI S3. 19- 1974
Noise Reduction Rate **NRR 32dB**
AS/ NZS 1270: 2002
**SLC(80) = 22dB CLASS 4**

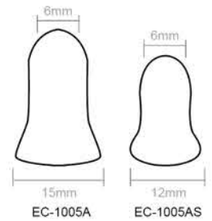
| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 31.7 | 31.5 | 35.5 | 37.3 | 36.7 | 43.2 | 45.0 |
| Standard deviation Sf [dB] | 3.6 | 4.4 | 4.2 | 4.1 | 4.1 | 4.0 | 3.0 |
| APV Mf-Sf [dB] | 28.1 | 27.1 | 31.2 | 33.2 | 32.6 | 39.2 | 42.0 |

| SNR=35dB | H=35dB | M=33dB | L=30dB |
|---|---|---|---|
| $SNR_m$=38.2dB | $H_m$=38.3dB | $M_m$=36.2dB | $L_m$=33.7dB |
| $SNR_s$=2.9dB | $H_s$=3.4dB | $M_s$=3.2dB | $L_s$=3.4dB |

## EC-1005AS
## EC-1005AS-C

EN 352-2:2020
**SNR 34dB**

ANSI S3. 19- 1974
Noise Reduction Rate
**NRR 28dB**



EC-1005A EC-1005AS

## EC-1006A
## EC-1006A-C

EN 352-2:2020
**SNR 35dB**

ANSI S3. 19- 1974
Noise Reduction Rate **NRR 31dB**
AS/ NZS 1270: 2002
**SLC(80) = 19dB CLASS 3**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 33.8 | 31.8 | 36.0 | 37.2 | 36.1 | 41.5 | 45.2 |
| Standard deviation Sf [dB] | 4.8 | 4.5 | 3.9 | 3.6 | 3.7 | 4.0 | 3.1 |
| APV Mf-Sf [dB] | 29.0 | 27.3 | 32.2 | 33.6 | 32.3 | 37.5 | 42.1 |

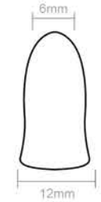
| SNR=35dB | H=35dB | M=33dB | L=31dB |
|---|---|---|---|
| $SNR_m$=38.1dB | $H_m$=37.7dB | $M_m$=36.3dB | $L_m$=34.2dB |
| $SNR_s$=2.8dB | $H_s$=3.2dB | $M_s$=3.1dB | $L_s$=3.6dB |

**Features and Benefits:**

**Comfortable**
Soft PU foam material for low pressure inside the ear
Slow rebound allows fully attach to ear canal

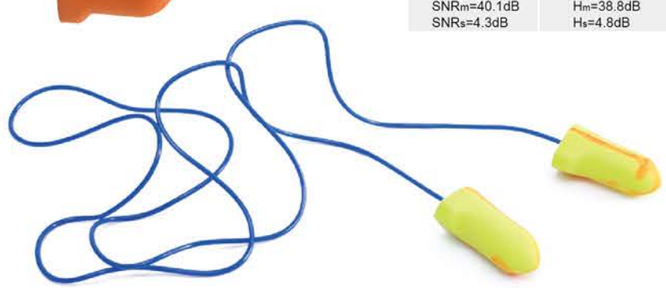
**Convenient**
Dispenser available (ED-250, ED-500)
Nylon cord or PVC cord helps prevent earplugs loss

**Compatible with**
Designed to be compatible with earmuffs or other PPE

# Disposable Foam Earplugs

## EC-1007A
## EC-1007A-C



**Features and Benefits:**

**Comfortable**

Soft PU foam material for low pressure inside the ear
Slow rebound allows fully attach to ear canal

**Convenient**

Dispenser available (ED-250, ED-500)
Nylon cord or PVC cord helps prevent earplugs loss

**Compatible with**

Designed to be compatible with earmuffs or other PPE

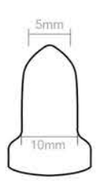
EN 352-2:2020
**SNR 36dB**

ANSI S3. 19- 1974
Noise Reduction Rate **NRR 30dB**

AS/ NZS 1270: 2002
**SLC(80) = 18dB** **CLASS 3**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 32.8 | 39.8 | 43.4 | 38.7 | 37.4 | 45.5 | 47.4 |
| Standard deviation Sf [dB] | 4.4 | 5.2 | 5.7 | 4.7 | 5.6 | 4.7 | 4.5 |
| APV Mf- Sf [dB] | 28.4 | 34.6 | 37.6 | 34.0 | 31.8 | 40.8 | 42.9 |

| **SNR=36dB** | **H=34dB** | **M=34dB** | **L=34dB** |
|---|---|---|---|
| $SNR_m$=40.1dB | $H_m$=38.8dB | $M_m$=38.4dB | $L_m$=37.8dB |
| $SNR_s$=4.3dB | $H_s$=4.8dB | $M_s$=4.3dB | $L_s$=4.1dB |




## EC-1008A
## EC-1008A-C
## EC-1008A-C-D
(Metal Detectable)

**Features and Benefits:**

**Comfortable**

Soft PU foam material for low pressure inside the ear
Slow rebound allows fully attach to ear canal

**Convenient**

Dispenser available (ED-250, ED-500)
Nylon cord or PVC cord helps prevent earplugs loss

**Compatible with**

Designed to be compatible with earmuffs or other PPE

EN 352-2:2020
**SNR 35dB**

ANSI S3. 19- 1974
Noise Reduction Rate **NRR 28dB**

AS/ NZS 1270: 2002
**SLC(80) = 15dB** **CLASS 2**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 26.9 | 31.4 | 35.8 | 36.6 | 36.4 | 42.5 | 45.9 |
| Standard deviation Sf [dB] | 3.4 | 3.1 | 4.8 | 4.8 | 2.4 | 6.0 | 3.9 |
| APV Mf- Sf [dB] | 23.5 | 28.3 | 31.0 | 31.9 | 34.0 | 36.5 | 42.0 |

| **SNR=35dB** | **H=35dB** | **M=32dB** | **L=29dB** |
|---|---|---|---|
| $SNR_m$=37.5dB | $H_m$=37.5dB | $M_m$=35.7dB | $L_m$=32.4dB |
| $SNR_s$=2.6dB | $H_s$=2.2dB | $M_s$=3.3dB | $L_s$=2.9dB |





# NEW Foam Earplugs

## EP-01

- Unique and innovative planet design,patented model.
- Pre-shaped, No Roll for easy to fit.
- Soft and comfortable for noise reduction and long wearing.

## EC-1013A


## EC-1027A


- SOFT COMFORTABLE FIT Designed with non-iritating smooth surface and extra-soft, low-pressure foam for comfort and fit.
- OPTIMAL DESIGN Tapered shape for easy insertion and removal, designed to fit even small earcanals.
- SUSTAINABLE SOLUTIONS 100% PVC-Free.

## EC-1017S


## EC-1017K


- SOFT COMFORTABLE FIT Designed with non-iritating smooth surface and extra-soft, low-pressure foam for comfort and fit.
- OPTIMAL DESIGN Bullet shape in two size for easy insertion and removal, designed to fit even small earcanals and kids.
- SUSTAINABLE SOLUTIONS 100% PVC-Free

## EC-1015

## EC-1025

- SOFT COMFORTABLE FIT Designed with non-iritating smooth surface and extra-soft, low-pressure foam for comfort and fit.
- PERSONALIZE DESIGN Irregular shape with hollow inside for no swelling or pain sensation.SUSTAINABLE SOLUTIONS 100% PVC-Free

## EC-3016C

## EC-3016F

## EC-3012C

## EC-3012F


## INSTRUCTION

### Prepare the Ear Canal

· Reach around your head and gently pull the outer ear up and back to straighten the ear canal for a snug fit.

### Insert Correctly

· Hold the stem end of the earplug and insert it deep into the ear canal until you feel a secure seal and comfortable fit.

### Remove Safely

· Gently twist the earplug to break the seal, then slowly pull it out.

### Care & Maintenance

· Clean regularly with mild soapy water.

· Replace if the earplugs become hard, torn, or deformed.

http://www.cn-safety.com



# Reusable Silicone Earplugs

J&Y

Christmas tree silicone earplugs

EC-2001
EC-2001C
EC-2001C-D
(Metal Detectable)

### Comfortable

Pure silicone material for low pressure inside the ear
Reusable use for long time in good shape
Humidity and sweat resistant, helps preventing from moisture ramp up in the ear canal
3 layers design allows fully attach to ear canal
Design to fit majority ear canal with premium comfort and protection

### Convenient

Christmas tree design fits most ear canals making the plugs easier to use Nylon cord or PVC cord , helps preventing from earplug loss

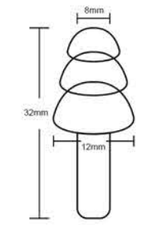
### Compatible with

Designed to be compatible with earmuffs or other PPE

EN 352-2:2020
**SNR 32dB**

ANSI S3. 19- 1974
Noise Reduction Rate **NRR 26dB**

AS/ NZS 1270: 2002
**SLC(80) = 24dB CLASS 4**




| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 34.5 | 30.4 | 36.0 | 31.9 | 36.1 | 41.2 | 43.0 |
| Standard deviation Sf [dB] | 5.8 | 4.4 | 4.7 | 4.6 | 4.8 | 5.6 | 4.1 |
| APV Mf-Sf [dB] | 28.8 | 26.0 | 31.3 | 27.3 | 31.2 | 35.6 | 38.9 |

| SNR=32dB | H=32dB | M=29dB | L=28dB |
|---|---|---|---|
| $SNR_m$=36.3dB | $H_m$=36.5dB | $M_m$=33.6dB | $L_m$=32.6dB |
| $SNR_s$=4.2dB | $H_s$=4.2dB | $M_s$=4.4dB | $L_s$=4.2dB |

Christmas tree silicone earplugs

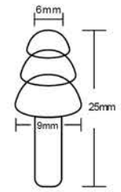
EC-2001S
EC-2001S-C

### Comfortable

Pure silicone material for low pressure inside the ear
Reusable use for long time in good shape
Humidity and sweat resistant, helps preventing from moisture ramp up in the ear canal
3 layers design allows fully attach to ear canal
Design to fit most ear canal with premium comfort and protection

EN 352-2:2020
**SNR 28dB**

ANSI S3. 19- 1974
Noise Reduction Rate
**NRR 20dB**




| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 30.9 | 28.8 | 31.4 | 33.2 | 33.6 | 29.6 | 35.2 |
| Standard deviation Sf [dB] | 4.9 | 5.0 | 6.2 | 6.1 | 4.3 | 4.6 | 5.6 |
| APV Mf-Sf [dB] | 26.0 | 23.7 | 25.2 | 27.1 | 29.3 | 25.0 | 29.6 |

| SNR=28dB | H=28dB | M=27dB | L=26dB |
|---|---|---|---|
| $SNR_m$=32.0dB | $H_m$=31.2dB | $M_m$=31.5dB | $L_m$=30.4dB |
| $SNR_s$=3.8dB | $H_s$=3.6dB | $M_s$=4.5dB | $L_s$=4.7dB |

## EC-2014
## EC-2014C

### Comfortable
Pure silicone material for low pressure inside the ear
Reusable use for long time in good shape
Humidity and sweat resistant, helps preventing from moisture ramp up in the ear canal
3 layers design allows fully attach to ear canal
Design to fit majority ear canal with premium comfort and protection

### Convenient
Christmas tree design fits most ear canals making the plugs easier to use Nylon cord or PVC cord, helps preventing from earplug loss

### Compatible with
Designed to be compatible with earmuffs or other PPE

EN 352-2:2020
**SNR 31dB**

ANSI S3. 19-1974
Noise Reduction Rate **NRR 26dB**

AS/ NZS 1270: 2002
**SLC(80) = 20dB CLASS 3**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 29.8 | 26.6 | 31.2 | 29.5 | 37.2 | 39.9 | 43.5 |
| Standard deviation Sf [dB] | 4.4 | 4.4 | 4.7 | 3.1 | 3.6 | 4.8 | 5.2 |
| APV Mf-Sf [dB] | 25.4 | 22.2 | 26.5 | 26.4 | 33.6 | 35.1 | 38.3 |

| **SNR=31dB** | **H=33dB** | **M=28dB** | **L=26dB** |
|---|---|---|---|
| $SNR_m$=33.9dB | $H_m$=35.9dB | $M_m$=30.7dB | $L_m$=28.9dB |
| $SNR_s$=2.8dB | $H_s$=2.8dB | $M_s$=2.8dB | $L_s$=3.2dB |

## EC-2003
## EC-2003C

### Comfortable
Pure silicone material for low pressure inside the ear
Reusable use for long time in good shape
Humidity and sweat resistant, helps preventing from moisture ramp up in the ear canal
Bell shape allows fully attach to ear canal
Design to fit majority ear canal with premium comfort and protection

### Convenient
Bell shape design fits most ear canals making the plugs easier to use Nylon cord or PVC cord, helps preventing from earplug loss

### Compatible with
Designed to be compatible with earmuffs or other PPE

EN 352-2:2020
**SNR 26dB**

ANSI S3. 19-1974
Noise Reduction Rate
**NRR 23dB**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 27.3 | 24.7 | 27.3 | 27.0 | 28.4 | 30.6 | 39.6 |
| Standard deviation Sf [dB] | 4.6 | 4.5 | 5.1 | 4.9 | 4.4 | 3.9 | 4.4 |
| APV Mf-Sf [dB] | 22.7 | 20.2 | 22.2 | 22.0 | 24.0 | 26.7 | 35.2 |

| **SNR=26dB** | **H=25dB** | **M=23dB** | **L=22dB** |
|---|---|---|---|
| $SNR_m$=29.0dB | $H_m$=28.7dB | $M_m$=27.0dB | $L_m$=26.1dB |
| $SNR_s$=3.2dB | $H_s$=3.3dB | $M_s$=3.8dB | $L_s$=3.9dB |





Christmas tree silicone earplugs

## EC-2002
## EC-2002C

### Comfortable
Pure silicone material for low pressure inside the ear
Reusable use for long time in good shape
Humidity and sweat resistant, helps preventing from moisture ramp up in the ear canal
3 layers design allows fully attach to ear canal
Design to fit majority ear canal with premium comfort and protection

### Convenient
Christmas tree design fits most ear canals making the plugs easier to use Nylon cord or PVC cord, helps preventing from earplug loss

### Compatible with
Designed to be compatible with earmuffs or other PPE

EN 352-2:2020
**SNR 31dB**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 28.9 | 30.6 | 32.8 | 30.7 | 34.3 | 38.4 | 43.8 |
| Standard deviation Sf [dB] | 6.3 | 5.4 | 6.1 | 3.1 | 3.3 | 6.5 | 4.3 |
| APV Mf-Sf [dB] | 22.6 | 25.2 | 26.6 | 27.6 | 31.0 | 31.9 | 39.4 |

| **SNR=31dB** | **H=32dB** | **M=28dB** | **L=26dB** |
|---|---|---|---|
| $SNR_m$=34.1dB | $H_m$=34.3dB | $M_m$=31.6dB | $L_m$=30.7dB |
| $SNR_s$=3.2dB | $H_s$=2.8dB | $M_s$=3.3dB | $L_s$=4.3dB |

Aqua Earplugs

## EC-2011P
## EC-2011P-C

### AQUA EARPLUGS
- Reusable and easy to clean
- Perfect comfort and gentle on the skin
- High noise insulation
- Effectively protects from water entering the ear and from noise
- With sanitary storage case

### INSTRUCTIONS FOR USE
1) Slightly pull up on the ear.Push the stem end of the earplug into the auditory canal.
2) Release once the earplug is seated comfortably. To remove,pull the earplug out slowly.

EN 352-2:2020
**SNR 33dB**

**⚠ WARNING**
not suitable for children under 36 months.Chocking hazard due to small parts.Replace earplugs if dirty or damaged.
According to standard EN 352

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 34.5 | 31.9 | 35.0 | 35.3 | 36.3 | 33.8 | 40.3 |
| Standard deviation Sf [dB] | 4.6 | 3.5 | 4.9 | 4.0 | 3.3 | 2.3 | 4.0 |
| APV Mf-Sf [dB] | 29.9 | 28.3 | 30.1 | 31.4 | 33.0 | 31.5 | 36.4 |

| **SNR=33dB** | **H=33dB** | **M=32dB** | **L=30dB** |
|---|---|---|---|
| $SNR_m$=35.7dB | $H_m$=35.0dB | $M_m$=34.6dB | $L_m$=33.6dB |
| $SNR_s$=2.3dB | $H_s$=2.1dB | $M_s$=2.9dB | $L_s$=3.2dB |

# Reusable Silicone Earplugs

**EC-2018**
**EC-2018C**
**EC-2018C-D**
(Metal Detectable)

(Metal Detectable)

### Comfortable

Pure silicone material for low pressure inside the ear
Reusable use for long time in good shape
Humidity and sweat resistant, helps preventing from moisture ramp up in the ear canal
3 layers design allows fully attach to ear canal
Design to fit majority ear canal with premium comfort and protection

### Convenient

Christmas tree design fits most ear canals making the plugs easier to use Nylon cord or PVC cord, helps preventing from earplug loss

### Compatible with

Designed to be compatible with earmuffs or other PPE

EN 352-2:2020
**SNR 33dB**

ANSI S3. 19- 1974
Noise Reduction Rate
**NRR 26dB**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 30.8 | 27.7 | 30.8 | 34.7 | 36.9 | 37.1 | 44.0 |
| Standard deviation Sf [dB] | 3.8 | 4.1 | 4.3 | 3.2 | 3.5 | 4.3 | 4.5 |
| APV Mf-Sf [dB] | 27.1 | 23.6 | 26.5 | 31.5 | 33.4 | 32.8 | 39.5 |

| SNR=33dB | H=34dB | M=30dB | L=27dB |
|---|---|---|---|
| $SNR_M$=35.4dB | $H_M$=36.4dB | $M_M$=33.2dB | $L_M$=30.5dB |
| $SNR_S$=2.6dB | $H_S$=2.3dB | $M_S$=2.9dB | $L_S$=3.6dB |

Travel Earplugs

**EC-2010L**
**EC-2010S**

Diameter
A = 8mm
B =10mm

### TRAVEL EARPLUGS

- Reusable and easy to clean
- Perfect comfort and gentle on the skin
- Medium noise insulation
- Effectively protects from loud and bothersome noise
- Helps equalize pressure on the ears during flights
- With sanitary storage case

### INSTRUCTIONS FOR USE

1) Slightly pull up on the ear.Push the rounded end of the earplug into the auditory canal.
2) Release once the earplug is seated comfortably. To remove,pull the earplug out slowly.

EN 352-2:2020
**SNR 30dB**

Diameter
A = 7mm
B = 9mm

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 28.7 | 30.3 | 31.8 | 31.0 | 33.5 | 43.1 | 43.5 |
| Standard deviation Sf [dB] | 5.7 | 5.2 | 6.5 | 4.4 | 3.9 | 4.9 | 4.1 |
| APV Mf-Sf [dB] | 23.0 | 25.1 | 25.2 | 26.6 | 29.7 | 38.2 | 39.4 |

| SNR=30dB | H=31dB | M=27dB | L=26dB |
|---|---|---|---|
| $SNR_M$=34.0dB | $H_M$=34.6dB | $M_M$=31.3dB | $L_M$=30.3dB |
| $SNR_S$=3.5dB | $H_S$=3.4dB | $M_S$=3.8dB | $L_S$=4.3dB |





# Silicone Module Earplugs

**EC-2016**

Kids
15x15MM


Adult
20x20MM

### WARNING

- Choking hazard. Due to small parts, keep away from children. If used by children, adult supervision is required.
- Should not be used for scuba diving or other deep diving.
- For personal use only; not intended for professional or industrial use.
- Consult your doctor before use if you have a perforated or infected ear drum.
- Before use, make sure your hands and ear plugs are clean and free of dirt or debris.
- Do not alter or modify the ear plugs in any way and check for any damage before use.
- If any irritation occurs, stop using immediately.
- If used for filying, the ear plugs should be removed as descending commences.
- When not in use, store the ear plugs in the travel case supplied.

EN 352-2:2020
**SNR 28dB**

ANSI S3. 19- 1974
Noise Reduction Rate
**NRR 20dB**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 26.3 | 22.9 | 24.0 | 28.5 | 37.8 | 41.5 | 39.3 |
| Standard deviation Sf [dB] | 4.0 | 3.4 | 4.2 | 4.2 | 4.5 | 3.3 | 4.1 |
| APV Mf-Sf [dB] | 22.3 | 19.5 | 19.8 | 24.4 | 33.3 | 38.2 | 35.2 |

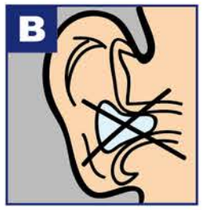
| SNR= 28dB | H=32dB | M=24dB | L= 22dB |
|---|---|---|---|
| $SNR_M$=31.0dB | $H_M$=35.0dB | $M_M$=27.7dB | $L_M$=25.0dB |
| $SNR_S$=3.4dB | $H_S$=3.3dB | $M_S$=3.6dB | $L_S$=3.3dB |

### INSTRUCTIONS FOR USE

Please read the following instructions for use and keep this leaflet for future reference.

1. Tear off as much silicone as needed or use the entire plug for older children and adults.
2. Shape into ball and place over clean, dry ear canal.
3. Flatten plug with finger and shape to cover outer ear until snugly fit.
4. Do not force into the ear canal. See pictures **A** and **B**.
5. Remove plugs by pressing up on the back of the ear.

CAUTION: Only cover the opening of the ear. D0 NOT INSERT IN EAR CANAL


## EC-3010


Pack 1


Pack 2

**Replace Pods**

Size: Medium

Size: Large

**Convenient**
Washable and Reusable
Environmentally friendly, sustainable use.
Excellent noise reduction for a quiet atmosphere.
Filter out noisy noise in noisy
places and improve the efficiency of work.

**Compatible with**
Designed to be compatible with earmuffs or other PPE

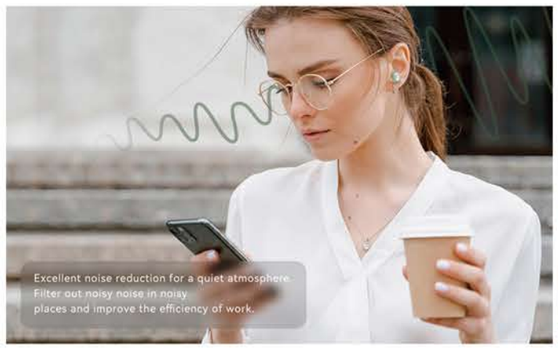
| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 28.7 | 29.7 | 27.6 | 28.0 | 33.0 | 37.3 | 34.2 |
| Standard deviation Sf [dB] | 3.0 | 3.5 | 3.8 | 3.1 | 3.3 | 2.7 | 4.6 |
| APV Mf-Sf [dB] | 25.6 | 26.2 | 23.8 | 24.9 | 29.7 | 34.6 | 29.6 |

| SNR=29dB | H=30dB | M=26dB | L=26dB |
|---|---|---|---|
| $SNR_m$=31.7dB | $H_m$=32.7dB | $M_m$=28.9dB | $L_m$=28.5dB |
| $SNR_s$=2.7dB | $H_s$=2.7dB | $M_s$=2.9dB | $L_s$=3.0dB |

EN 352-2:2020
**SNR 29dB**

ANSI S3. 19- 1974
Noise Reduction Rate
**NRR 25dB**

A1 box









## EC-3011A

**Convenient**
Washable and Reusable
Environmentally friendly, sustainable use.
Excellent noise reduction for a quiet atmosphere.
Filter out noisy noise in noisy
places and improve the efficiency of work.

**Compatible with**
Designed to be compatible with earmuffs or other PPE

EN 352-2:2020
**SNR 29dB**

ANSI S3. 19- 1974
Noise Reduction Rate
**NRR 25dB**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 27.8 | 29.2 | 27.6 | 28.3 | 32.9 | 37.5 | 33.6 |
| Standard deviation Sf [dB] | 4.0 | 3.9 | 3.5 | 3.3 | 3.5 | 3.2 | 3.5 |
| APV Mf-Sf [dB] | 23.8 | 25.3 | 24.2 | 25.0 | 29.4 | 34.3 | 30.1 |

| SNR= 29dB | H=30dB | M=26dB | L= 25dB |
|---|---|---|---|
| SNRm=31.8dB | Hm=32.7dB | Mm=29.1dB | Lm=28.5dB |
| SNRs=2.8dB | Hs=2.9dB | Ms=3.0dB | Ls=3.1dB |

**Replace Pods**

Size: Medium

Size: Large

## EC-3011B

EN 352-2:2020
**SNR 26dB**

ANSI S3. 19- 1974
Noise Reduction Rate
**NRR 21dB**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 22.2 | 24.2 | 24.9 | 24.6 | 27.1 | 37.3 | 40.9 |
| Standard deviation Sf [dB] | 2.9 | 3.7 | 2.6 | 2.3 | 2.7 | 2.7 | 3.4 |
| APV Mf-Sf [dB] | 19.3 | 20.5 | 22.3 | 22.3 | 24.4 | 34.6 | 37.5 |

| SNR= 26dB | H=27dB | M=23dB | L= 22dB |
|---|---|---|---|
| $SNR_m$=28.4dB | $H_m$=28.8dB | $M_m$=25.5dB | $L_m$=24.4dB |
| $SNR_s$=2.0dB | $H_s$=2.3dB | $M_s$=2.1dB | $L_s$=2.4dB |

Four layer silicone earplugs

## EC-2005 / EC-2005C

Three Layer silicone earplugs

## EC-2008 / EC-2008C

## EC-2020
## EC-2020C

**Comfortable**

Pure silicone material for low pressure inside the ear
Reusable use for long time in good shape
Humidity and sweat resistant, helps preventing from moisture ramp up in the ear canal
3 layers design allows fully attach to ear canal
Design to fit majority ear canal with premium comfort and protection

**Convenient**

Christmas tree design fits most ear canals making the plugs easier to use Nylon cord or PVC cord, helps preventing from earplug loss

**Compatible with**

Designed to be compatible with earmuffs or other PPE

ANSI S3. 19- 1974
Noise Reduction Rate
**NRR 27dB**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 36.8 | 34.9 | 39.3 | 39.7 | 36.0 | 41.7 | 46.2 |
| Standard deviation Sf [dB] | 5.3 | 4.3 | 4.8 | 5.1 | 5.3 | 4.4 | 3.3 |

## EC-2012
## EC-2012C

**Comfortable**

Pure silicone material for low pressure inside the ear
Reusable use for long time in good shape
Humidity and sweat resistant, helps preventing from moisture ramp up in the ear canal
Design to fit majority ear canal with premium comfort and protection

**Convenient**

Christmas tree design fits most ear canals making the plugs easier to use Nylon cord or PVC cord, helps preventing from earplug loss

**Compatible with**

Designed to be compatible with earmuffs or other PPE

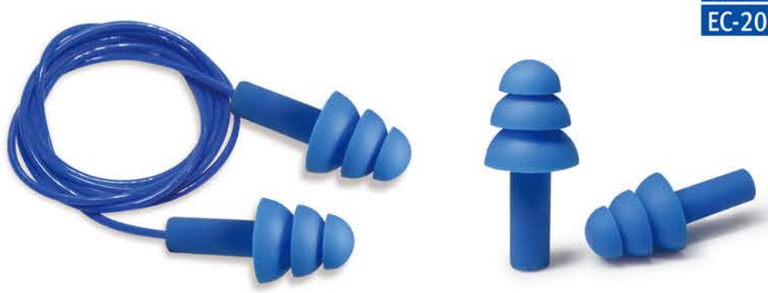
ANSI S3. 19- 1974
Noise Reduction Rate
**NRR 25dB**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 33.5 | 29.6 | 34.3 | 32.8 | 35.5 | 36.7 | 42.3 |
| Standard deviation Sf [dB] | 4.7 | 3.6 | 4.2 | 4.0 | 3.8 | 4.9 | 4.1 |





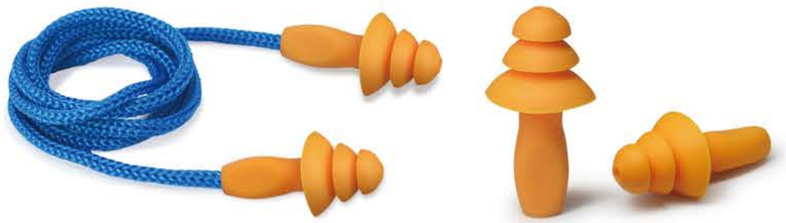
## EC-2061 / EC-2061C
## EC-2061C-D (Metal Detectable)



EN 352-2:2020
**SNR 27dB**
H= 29dB M= 24dB L= 23dB

ANSI S3. 19- 1974
Noise Reduction Rate **NRR 22dB**
AS/ NZS 1270: 2002
**SLC(80) = 14.2dB CLASS 2**

## EC-2062 / EC-2062C
## EC-2062C-D (Metal Detectable)



EN 352-2:2020
**SNR 32dB**
H= 31dB M= 30dB L= 29dB

ANSI S3. 19- 1974
Noise Reduction Rate **NRR 26dB**
AS/ NZS 1270: 2002
**SLC(80) = 13.8dB CLASS 2**

## EC-2063 / EC-2063C
## EC-2063C-D (Metal Detectable)

EN 352-2:2020
**SNR 32dB**
H= 33dB M= 29dB L= 28dB

ANSI S3. 19- 1974
Noise Reduction Rate **NRR 25dB**
AS/ NZS 1270: 2002
**SLC(80) = 12.5dB CLASS 1**

## EC-2065 / EC-2065C
## EC-2065C-D (Metal Detectable)

EN 352-2:2020
**SNR 34dB**
H= 33dB M= 32dB L= 31dB

ANSI S3. 19- 1974
Noise Reduction Rate **NRR 26dB**
AS/NZS 1270: 2002
**SLC(80) = 18.2dB CLASS 3**

## Banded round shape earplugs

**EC-4102 / EC-4102S**

Round Shape Earplug
(replace pods)
EC-4102S

Banded hearing protectors are easy to use, extremely comfortable. They are fast insert and remove in quick and can be worn or around the neck when not for use, making them ideal for intermittently use. It offers simplicity to help improve the choice of hearing protection products that suits the working environment greatly. With replacement foam pods making them a more cost-saving option.

**Features and benefits:**

**Comfortable**

+ Extremely light
+ Very low pressure into the ear canal
+ Without deep insertion Pod plugs seal the entrance part of the ear canal.

EN 352-2:2020
**SNR 29dB**

ANSI S3. 19- 1974
Noise Reduction Rate
**NRR 23dB**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 30.3 | 25.2 | 25.9 | 26.9 | 35.1 | 42.5 | 44.8 |
| Standard deviation Sf [dB] | 4.1 | 3.6 | 3.9 | 2.3 | 3.5 | 3.6 | 4.2 |
| APV Mf-Sf [dB] | 26.1 | 21.6 | 22.0 | 24.6 | 31.6 | 38.9 | 40.6 |

| SNR=29dB | H=32dB | M=26dB | L=24dB |
|---|---|---|---|
| $SNR_H$=31.2dB | $H_H$=34.0dB | $M_H$=27.7dB | $L_H$=26.4dB |
| $SNR_L$=2.1dB | $H_L$=2.1dB | $M_L$=2.1dB | $L_L$=2.7dB |

## Banded taper shape earplugs

**EC-4103 / EC-4103S**

Taper Shape Earplug
(replace pods)
EC-4103S

Banded hearing protectors are easy to use, extremely comfortable. They are fast insert and remove in quick and can be worn or around the neck when not for use, making them ideal for intermittently use. It offers simplicity to help improve the choice of hearing protection products that suits the working environment greatly. With replacement foam pods making them a more cost-saving option.

**Features and benefits:**

**Comfortable**

+ Extremely light
+ Very low pressure into the ear canal
+ Without deep insertion Pod plugs seal the entrance part of the ear canal.

EN 352-2:2020
**SNR 27dB**

ANSI S3. 19- 1974
Noise Reduction Rate
**NRR 22dB**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 26.7 | 23.8 | 24.3 | 26.4 | 34.1 | 41.9 | 44.3 |
| Standard deviation Sf [dB] | 4.1 | 3.8 | 4.0 | 3.8 | 4.6 | 4.4 | 4.3 |
| APV Mf-Sf [dB] | 22.7 | 20.0 | 20.3 | 22.6 | 29.5 | 37.5 | 40.0 |

| SNR=27dB | H=30dB | M=24dB | L=22dB |
|---|---|---|---|
| $SNR_H$=30.1dB | $H_H$=33.0dB | $M_H$=26.7dB | $L_H$=24.9dB |
| $SNR_L$=2.9dB | $H_L$=3.1dB | $M_L$=3.1dB | $L_L$=3.0dB |

## Banded bell shape earplugs

**EC-4105 / EC-4105S**

Taper Shape Earplug
(replace pods)
EC-4105S

Banded hearing protectors are easy to use, extremely comfortable. They are fast insert and remove in quick and can be worn or around the neck when not for use, making them ideal for intermittently use. It offers simplicity to help improve the choice of hearing protection products that suits the working environment greatly. With replacement foam pods making them a more cost-saving option.

**Features and benefits:**

**Comfortable**

+ Extremely light
+ Very low pressure into the ear canal
+ Without deep insertion Pod plugs seal the entrance part of the ear canal.

**Convenient**

+ Can be worn in either under-the-chin or Behind-the-head
+ Easy to use
+ Ideal for people moving in and out
+ Replacement Foam pods available

**Compatible with**

+ Designed to be compatible with other PPE





## Banded bell shape earplugs

**EC-4101 / EC-4101S**

Bell Shape Reusable Earplug
(replace pods)
EC-4101S

Banded hearing protectors are easy to use, extremely comfortable. They are fast insert and remove in quick and can be worn or around the neck when not for use, making them ideal for intermittently use. It offers simplicity to help improve the choice of hearing protection products that suits the working environment greatly. With replacement silicone pods making them a more cost-saving option.

**Features and benefits:**

**Comfortable**

+ Extremely light
+ Very low pressure into the ear canal
+ Without deep insertion Pod plugs seal the entrance part of the ear canal.

EN 352-2:2020
**SNR 30dB**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 31.8 | 28.0 | 28.6 | 29.8 | 34.3 | 41.1 | 45.2 |
| Standard deviation Sf [dB] | 5.9 | 5.0 | 4.1 | 4.3 | 4.2 | 4.4 | 4.3 |
| APV Mf-Sf [dB] | 25.9 | 23.1 | 24.5 | 25.5 | 30.0 | 36.7 | 40.9 |

| SNR=30dB | H=31dB | M=26dB | L=25dB |
|---|---|---|---|
| $SNR_H$=33.5dB | $H_H$=34.9dB | $M_H$=30.4dB | $L_H$=29.0dB |
| $SNR_L$=3.8dB | $H_L$=3.7dB | $M_L$=3.9dB | $L_L$=4.1dB |

## Banded taper shape earplugs

**EC-4106 / EC-4103S**

Taper Shape Earplug
(replace pods)
EC-4103S

Banded hearing protectors are easy to use, extremely comfortable. They are fast insert and remove in quick and can be worn or around the neck when not for use, making them ideal for intermittently use. It offers simplicity to help improve the choice of hearing protection products that suits the working environment greatly. With replacement foam pods making them a more cost-saving option.

**Features and benefits:**
**Comfortable**

+ Extremely light
+ Very low pressure into the ear canal
+ Without deep insertion Pod plugs seal the entrance part of the ear canal.

**Convenient**

+ Can be worn in either under-the-chin or Behind-the-head
+ Easy to use
+ Ideal for people moving in and out
+ Replacement Foam pods available

**Compatible with**

+ Designed to be compatible with other PPE

AS/ NZS 1270: 2002
**SLC(80) = 18.5dB**
**CLASS 3**

**EC-4110**

**EC-4111**

EB-8005

NEW

## Bluetooth & Level-Dependent Earplugs



**Replace Pods**

Silicone Earplugs


PU Foam Earplugs


- **Bluetooth**

Bluetooth function, transmission distance greater than 10M. Can connect to devices such as mobile phones.

- **Noise reduction**

Has noise reduction capability, used to reduce noise in places and protect hearing.

- **Level-Dependent Sound Amplification**

Advanced environmental microphones amplify ambient sounds while providing loud noise attenuation. All sound output is safely limited to 82 dB(A) for hearing safety. Clearly hear conversations, warning signals and important surroundings while protecting your hearing in noisy environments.

- **Communication**

You can answer phone calls, play music, and use voice assistants to let go of your hands.

| FEATURES | |
|---|---|
| Version | 6.0 |
| Input | 3.7V |
| Battery | 150mAh |
| Working Time | >20h |
| Connection Range | >10m/33ft |
| Charging Port | Type-C |
| Charging Time | 2 hours |





- **Bluetooth**

Bluetooth function, transmission distance greater than 10M. Can connect to devices such as mobile phones.

- **Environmental sound**

When the ambient sound is low, amplify it to facilitate communication; When the ambient sound is high, reduce the sound to a safe level to protect hearing.

- **Noise reduction**

Has noise reduction capability, used to reduce noise in places and protect hearing.

- **Communication**

You can answer phone calls, play music, and use voice assistants to let go of your hands.

EB-8001C

NEW

## Bluetooth Hearing Protection Earbuds

EN 352-2:2020
**SNR 29dB**

ANSI S3. 19- 1974
Noise Reduction Rate
**NRR 24dB**

| | | | |
|---|---|---|---|
| **SNR= 29dB** | $SNR_m$=30.5dB | $SNR_s$=2.0dB | |
| **H=28dB** | $H_m$=30.4dB | $H_s$=2.3dB | |
| **M=26dB** | $M_m$=28.4dB | $M_s$=2.2dB | |
| **L= 26dB** | $L_m$=28.1dB | $L_s$=2.2dB | |

| Frequency [Hz] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 20.6 | 28.8 | 27.9 | 28.4 | 27.8 | 30.8 | 31.1 | 35.9 |
| Standard deviation Sf [dB] | 7.6 | 3.3 | 2.9 | 2.7 | 2.9 | 3.4 | 3.2 | 3.7 |
| APV Mf-Sf [dB] | 13.0 | 25.5 | 25.1 | 25.8 | 24.9 | 27.3 | 27.9 | 32.3 |

| FEATURES | |
|---|---|
| Version | 5.3 |
| Input | 3.7V |
| Battery | 120mAh |
| Working Time | >10h |
| Connection Range | >10m/33ft |
| Charging Port | Type-C |
| Charging Time | 2 hours |

EB-8001

## Bluetooth Earplugs

Great Noise Reduction: Wireless earplugs provide a passive noise reduction, which keeping your ears from the harmful noise surrounding, you can enjoy music and call with anyone through earplugs without obstacles.

Ergonomic Design: The earplugs is soft and lightweight made of silicone material, with christmas tree shape and 3-layer design better fits most ear canal and isolate noise. Flexible cord and comfy neckband, only weight 21g±2g, leaves no pressure on your neck.

Wireless Headphone: Features wireless technology, with ability to listen to music and call. Enjoy 10 hour battery life with only 3 hours of charging time.

Work Earphones: Offering premium sound & hearing protection in your earbuds for work.

Water and Sweat Resistant: Reaching waterproof level, protecting wireless earplugs neckband from rains or sweat during working, which is great for Landscaping, Public Transit, Shooting, Construction, Gym, Yard Work, and more.

### Specification

| | |
|---|---|
| Bluetooth version: | Bluetooth 5.0 |
| Transmission distance: | ≥ 10m |
| Call life: | ≥ 10 hours |
| Charging time: | 1.5 hours |
| Product weight: | 36.1g±1g |

This product complies with Regulation

Use with Bluetooth devices ie. android/apple/google

# Music Earplugs

ANSI

**EC-3001**

ANSI S3. 19- 1974
Noise Reduction Rate
**NRR 20dB**

CE

**EC-3001A**

EN 352-2:2020
**SNR 27dB**

H=26dB M=25dB L= 26dB

ANSI

**EC-3002**

ANSI S3. 19- 1974
Noise Reduction Rate
**NRR 15dB**

CE

**EC-3003**

EN 352-2:2020
**SNR 27dB**

H=28dB M=25dB L= 23dB

**EC-3005**

**EC-3006**

**EC-3007**

**EC-3008**

**EC-3009**

A. 
B. 
C. 

Musicians spend a lot of their time around damaging noise levels. Whether they play a musical instrument or sing in a band, musicians are at risk for developing music-induced hearing loss. Musicians rely on their hearing in practice and performance, and it is important that their hearing is not compromised over time.





## Packing Series

Optional packages by plastic or color paper boxes in different shape for customerized selling unit.
Plastic box: Using high quality plastic materials, with Taiwan high standard mold injection.


A

A1


B


C2


D


E


F


G


H


I


J


S


L

M

N


O

Q


R

Y1

Y2

Y3

Y4
100pk

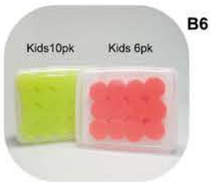
V1

V3

B5

B7

B8



B6

## EM-7009S

NEW

### Features & Benefits

+ Compact Size for Smaller Users
Specially designed small-size ear cups provide a better fit for users with smaller head sizes,ensuring effective sealing and comfort.

+ Dual-Color Injection Molding
Advanced dual-color, durable, long-lasting ABS plastic cups with soft overmolding are designed to perform even in tough work conditions.

+ Effective Noise Protection
Engineered acoustic structure provides reliable noise reduction for light industrial and general workplace environments.

+ Easy to Remove Cup Arm Bracket Design
For end user convenient replacement of head style and cap-mounted style earmuffs.

## EM-7009M

NEW

### Features & Benefits

+ Medium Universal Fit
Balanced ear cup size suitable for most users, offering a comfortable and secure fit for
daily industrial use.

+ Dual-Color Injection Molding
Advanced dual-color, durable, long-lasting ABS plastic cups with soft overmolding are designed to perform even in tough work conditions.

+ Excellent Noise Attenuation
High-quality sound-dampening materials help reduce workplace noise and protect hearing.

+ Easy to Remove Cup Arm Bracket Design
For end user convenient replacement of head style and cap-mounted style earmuffs.

## EM-7009L

NEW

### Features & Benefits

+ Large Size for Maximum Coverage
Larger ear cups provide extended coverage and improved sealing for enhanced comfort
and protection.

+ Dual-Color Injection Molding
Advanced dual-color, durable, long-lasting ABS plastic cups with soft overmolding are designed to perform even in tough work conditions.

+ Superior Noise Reduction Performance
Optimized internal acoustic design delivers outstanding noise attenuation for demanding environments.

+ Easy to Remove Cup Arm Bracket Design
For end user convenient replacement of head style and cap-mounted style earmuffs.





## EM-7003-1S

NEW

### Features & Benefits

+ Slim & Lightweight Design
Compact ear cup structure reduces weight and pressure, improving comfort for daily and intermittent use.

+ Flexible Fit
Adjustable headband allows a secure and customized fit for different head sizes.

+ Reliable Hearing Protection
Provides consistent noise attenuation suitable for general industrial, construction, and maintenance environments.

## EM-7003-1M

NEW

### Features & Benefits

+ High Noise Reduction
Engineered with high-density acoustic foam to effectively reduce harmful industrial noise and protect hearing in demanding work environments.

+ Comfortable Headband Design
Soft padded headband and ergonomic ear cushions provide long-lasting comfort during extended use.

+ Durable Industrial Construction
Robust ABS ear cups and reinforced structure ensure durability and reliable performance in tough workplaces.

## EM-7003-1

CE ANSI

### Features & Benefits

+ The headband features a steel wire encased in TPE soft rubber, offering a comfortable and secure fit that adapts to your head shape.
+ Generous interior space within the ear cups allows for airflow, keeping your ears cool and comfortable during extended use.
+ Ultra-soft and wide ear cushions fit the ear perfectly, preventing any squeezing of the head and ear. Ideal for long-time wear.

| EN 352-1:2020 | ANSI S3. 19-1974 Noise Reduction Rate |
|---|---|
| **SNR 37dB** | **NRR 30dB** |

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 21.6 | 28.4 | 37.4 | 37.9 | 38.4 | 43.6 | 43.8 |
| Standard deviation Sf [dB] | 2.6 | 2.6 | 3.0 | 2.9 | 2.1 | 2.1 | 3.4 |
| APV Mf-Sf [dB] | 19.0 | 25.8 | 34.4 | 35.0 | 36.3 | 41.6 | 40.4 |

| SNR=37dB | H=39dB | M=35dB | L= 27dB |
|---|---|---|---|
| $SNR_m$=38.0dB | $H_m$=40.0dB | $M_m$=36.0dB | $L_m$=29.1dB |
| $SNR_s$=1.3dB | $H_s$=1.5dB | $M_s$=1.5dB | $L_s$=1.9dB |

## EM-7001L PLUS

**Exclusive Look Design:**
Exclusive and fresh muff-cup look design, New arrival headband wrapped with soft TPE out cover and an adjustable telescopic metal rack for personalized fit.

**Safety and Trusted:**
ANSI S3.19 , EN352-2 and AS/NZS 1270 approved, Suitable for Military, Hunting,Yard work, Racing, Noisy work sites and etc.

**Excellent Noise Reduction:**
Light-weight design at small cup shape, built-in high density acoustic foam achieving high noise reduction rating of SNR 37dB,NRR 31dB.

**Comfortable Cushion:**
Ultra soft and wide ear cushion can fit ear perfect. No squeezing head and ear. Suitable for long time wear.

### Family Series

EM-7001 EM-7001M EM-7001L

EN 352-1:2020 **SNR:37dB**

ANSI S3.19-1974 Attenuation data

**NRR:31dB CSA Class A**

| Test frequentcies (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Mean attenuation(dB) | 24.3 | 28.5 | 41.9 | 42.8 | 37.9 | 40.0 | 38.4 |
| Standard Deviation(dB) | 2.5 | 2.1 | 2.1 | 3.2 | 2.8 | 2.9 | 2.9 |
| Mean-minus-Std. dev.dB/APV | 21.9 | 26.4 | 39.9 | 39.6 | 35.1 | 37.0 | 35.5 |

| SNR= 37dB | H=36dB | M=36dB | L= 29dB |
|---|---|---|---|
| $SNR_m$=38.3dB | $H_m$=38.7dB | $M_m$=37.6dB | $L_m$=30.9dB |
| $SNR_s$=1.5dB | $H_s$=2.4dB | $M_s$=1.4dB | $L_s$=1.9dB |

## EM-7001

**Exclusive Look Design:**
Exclusive and fresh muff-cup look design, New arrival headband wrapped with soft TPE out cover and an adjustable telescopic metal rack for personalized fit.

**Safety and Trusted:**
ANSI S3.19 , EN352-2 and AS/NZS 1270 approved, Suitable for Military, Hunting,Yard work, Racing, Noisy work sites and etc.

**Excellent Noise Reduction:**
Light-weight design at small cup shape, built-in high density acoustic foam achieving high noise reduction rating of SNR 31dB,NRR 25dB.

**Comfortable Cushion:**
Ultra soft and wide ear cushion can fit ear perfect. No squeezing head and ear. Suitable for long time wear.

### Family Series

EM-7001 EM-7001M EM-7001L

EN 352-1:2020 **SNR:31dB**

| ANSI S3.19-1974 Attenuation data | AS/NZ S1270:2002 |
|---|---|
| **NRR:25dB CSA Class A** | **SLC(80): 29.1dB** |
| | **Class 5** |

| Test frequentcies (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Mean attenuation(dB) | 16.8 | 22.2 | 30.3 | 37.3 | 38.0 | 38.2 | 38.4 |
| Standard Deviation(dB) | 3.5 | 3.3 | 4.1 | 4.3 | 3.6 | 4.7 | 4.8 |
| Mean-minus-Std. dev.dB/APV | 13.4 | 18.8 | 26.2 | 33.0 | 34.3 | 33.5 | 33.6 |

| SNR= 31dB | H=35dB | M=28dB | L= 21dB |
|---|---|---|---|
| $SNR_m$=33.4dB | $H_m$=37.6dB | $M_m$=31.4dB | $L_m$=23.6dB |
| $SNR_s$=2.8dB | $H_s$=3.0dB | $M_s$=2.9dB | $L_s$=2.9dB |

### EM-7001L

SNR: 35dB NRR: 29dB
SLC(80): 32.8dB Class 5

### EM-7001L-D

25mm/30mm adaptor plug option

SNR: 34dB NRR: 29dB

### EM-7001L-E

25mm/30mm adaptor plug option

### EM-7001B

SNR: 33dB NRR: 27dB

### EM-7001D

SNR: 27dB

### EM-7001E

### EM-7001M

NEW

## Family Series

Features and Benefits:
+ Unique plastic headband and ear cups for extended comfort and Insulation.
+ Generous space inside cup to help the ears breathe thus improving comfort.
+ Professional earmuffs for durability and reliability.
+ Available in high visibility colors.

Suitable for Loud Machinery Power tools, Loud Music, Noise places.

FM-1 FM-2 FM-3

### FM-1

CE ANSI AS/NZS certified products

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 15.9 | 19.2 | 28.1 | 37.7 | 37.5 | 40.1 | 37.5 |
| Standard deviation Sf [dB] | 1.9 | 2.0 | 2.3 | 2.4 | 2.0 | 2.9 | 2.8 |
| APV Mf-Sf [dB] | 14.0 | 17.2 | 25.8 | 35.3 | 35.5 | 37.2 | 34.6 |

| SNR= 31dB | H=36dB | M=28dB | L= 20dB |
|---|---|---|---|
| $SNR_m$=32dB | $H_m$=38.2dB | $M_m$=29.7dB | $L_m$=21.6dB |
| $SNR_s$=1.4dB | $H_s$=2.0dB | $M_s$=1.5dB | $L_s$=1.4dB |

EN 352-1:2020
**SNR 31dB**

ANSI S3. 19-1974
Noise Reduction Rate
**NRR 24dB**
AS/NZS 1270:2002
**SLC(80) = 31dB**
**CLASS 5**

### FM-2

CE ANSI AS/NZS certified products

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 19.6 | 23.0 | 32.5 | 39.5 | 33.9 | 40.1 | 40.2 |
| Standard deviation Sf [dB] | 2.6 | 2.3 | 2.7 | 2.4 | 2.5 | 3.2 | 3.9 |
| APV Mf-Sf [dB] | 17.0 | 20.7 | 29.8 | 37.1 | 31.4 | 36.9 | 36.3 |

| SNR= 33dB | H=34dB | M=31dB | L= 23dB |
|---|---|---|---|
| $SNR_m$=34.4dB | $H_m$=36.3dB | $M_m$=32.7dB | $L_m$=25.5dB |
| $SNR_s$=1.7dB | $H_s$=2.3dB | $M_s$=1.8dB | $L_s$=2.1dB |

EN 352-1:2020
**SNR 33dB**

ANSI S3. 19-1974
Noise Reduction Rate
**NRR 26dB**
AS/NZS 1270:2002
**SLC(80) = 33dB**
**CLASS 5**

### FM-3

CE ANSI AS/NZS certified products

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 21.7 | 23.8 | 33.3 | 38.2 | 35.9 | 41.5 | 39.6 |
| Standard deviation Sf [dB] | 2.8 | 2.2 | 2.7 | 2.8 | 2.8 | 3.4 | 3.0 |
| APV Mf-Sf [dB] | 18.8 | 21.6 | 30.6 | 35.4 | 33.1 | 38.1 | 36.6 |

| SNR= 34dB | H=35dB | M=32dB | L= 25dB |
|---|---|---|---|
| $SNR_m$=35.5dB | $H_m$=37.9dB | $M_m$=33.6dB | $L_m$=26.8dB |
| $SNR_s$=2.0dB | $H_s$=2.6dB | $M_s$=2.0dB | $L_s$=2.0dB |

EN 352-1:2020
**SNR 34dB**

ANSI S3. 19-1974
Noise Reduction Rate
**NRR 28dB**
AS/NZS 1270:2002
**SLC(80) = 34.6dB**
**CLASS 5**

### FM-3E

CE

25mm/30mm adaptor plug option

**Cap Mounted EarMuffs**

EN 352-3:2020
**SNR 32dB**

Features and Benefits:
+ Soft and wide sealing rings filled with a unique combination foam to offer optimum sealing and low pressure.
+ Generouos space inside cup to help the ears breathe thus improving comfort.
+ Professional earmuffs for durability and reliability.
+ Available in high visibility colors.

| Frequency [Hz] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 24.6 | 18.6 | 26.5 | 33.5 | 35.9 | 33.0 | 38.7 | 35.2 |
| Standard deviation Sf [dB] | 3.6 | 2.6 | 2.8 | 3.4 | 3.9 | 3.0 | 4.1 | 3.8 |
| APV Mf-Sf [dB] | 21.0 | 16.0 | 23.7 | 30.2 | 32.0 | 29.9 | 34.6 | 31.5 |

| SNR= 32dB | H= 32 dB |
|---|---|
| $SNR_m$ = 34.0dB | $H_m$ = 34.3dB |
| $SNR_s$ = 2.1dB | $H_s$ = 2.3dB |
| **M= 31 dB** | **L= 24 dB** |
| $M_m$ = 33.0dB | $L_m$ = 26.7dB |
| $M_s$ = 2.4dB | $L_s$ = 2.5dB |





### FM-1A

CE

Features and Benefits:
+ 304 stainless steel headband: corrosion resistance, heat resistance, good oxidation resistance, excellent weld ability.
+ Leather cover stainless steel headbands with 4-point suspension, suspension system helps distribute cushion pressure evenly.
+ Unique shell design guarantee offer high noise reduction rating.
+ Light weight, comfortable & effective ear muff range.
+ Suitable for Loud Machinery Power tools, Loud Music, Noise places.

EN 352-1:2020
**SNR 31dB**

**Headbanded EarMuffs**

| SNR= 31dB | H=33dB | M=29dB | L= 21dB |
|---|---|---|---|
| $SNR_m$=32.5dB | $H_m$=35.3dB | $M_m$=31.4dB | $L_m$=23.1dB |
| $SNR_s$=1.9dB | $H_s$=2.2dB | $M_s$=2.0dB | $L_s$=2.2dB |

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 15.8 | 21.8 | 30.9 | 40.1 | 37.5 | 34.3 | 31.5 |
| Standard deviation Sf [dB] | 2.4 | 2.5 | 2.9 | 2.9 | 3.0 | 2.7 | 2.6 |
| APV Mf-Sf [dB] | 13.3 | 19.3 | 28.0 | 37.3 | 34.5 | 31.6 | 28.9 |

### FM-1B

CE ANSI

AS/NZS certified products

Features and Benefits:
+ Foldable headband easy for carrying & storage, save shipping cost.
+ Unique shell design guarantee offer high noise reduction rating.
+ Light weight, comfortable & effective ear muff range.
+ Wide cushion for comfort.
+ Suitable for Loud Machinery Power tools, Loud Music, Noise places.

EN 352-1:2020
**SNR 31dB**

ANSI S3. 19-1974 Noise Reduction Rate **NRR 26dB**
AS/NZS 1270:2002 **SLC(80) = 30.5dB CLASS 5**

| SNR= 31dB | H=35dB | M=29dB | L= 20dB |
|---|---|---|---|
| $SNR_m$=32.2dB | $H_m$=37.0dB | $M_m$=30.4dB | $L_m$=21.8dB |
| $SNR_s$=1.2dB | $H_s$=1.7dB | $M_s$=1.3dB | $L_s$=1.7dB |

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 15.8 | 19.4 | 31.2 | 40.4 | 37.4 | 37.0 | 34.8 |
| Standard deviation Sf [dB] | 2.7 | 1.6 | 2.9 | 2.4 | 3.2 | 3.0 | 2.5 |
| APV Mf-Sf [dB] | 13.1 | 17.8 | 28.3 | 38.0 | 34.1 | 34.0 | 32.3 |

### FM-1C

CE

Features and Benefits:
+ 304 stainless steel headband: corrosion resistance, heat resistance, good oxidation resistance, excellent weld ability.
+ Unique shell design guarantee offer high noise reduction rating.
+ Light weight, comfortable & effective ear muff range.
+ Wide cushion for comfort.
+ Suitable for Loud Machinery Power tools, Loud Music, Noise places.

EN 352-1:2020
**SNR 30dB**

**Neckbanded EarMuffs**

| SNR= 30dB | H=32dB | M=29dB | L= 21dB |
|---|---|---|---|
| $SNR_m$=32.0dB | $H_m$=34.8dB | $M_m$=30.5dB | $L_m$=23.4dB |
| $SNR_s$=1.9dB | $H_s$=2.8dB | $M_s$=1.8dB | $L_s$=2.6dB |

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 18.3 | 20.6 | 29.1 | 38.4 | 36.4 | 33.2 | 34.1 |
| Standard deviation Sf [dB] | 4.0 | 2.5 | 2.5 | 2.5 | 3.2 | 3.8 | 3.5 |
| APV Mf-Sf [dB] | 14.3 | 18.0 | 26.6 | 35.8 | 33.2 | 29.4 | 30.6 |

### FM-1D

CE

Features and Benefits:
+ 304 stainless steel headband: corrosion resistance, heat resistance, good oxidation resistance, excellent weld ability.
+ Unique shell design guarantee offer high noise reduction rating.
+ Light weight, comfortable & effective ear muff range.
+ Wide cushion for comfort.
+ Suitable for Loud Machinery Power tools, Loud Music, Noise places.

EN 352-3:2020
**SNR 28dB**

**Cap Mounted EarMuffs**

| SNR= 28dB | H=30dB | M=27dB | L= 20dB |
|---|---|---|---|
| $SNR_m$=30.4dB | $H_m$=32.9dB | $M_m$=28.9dB | $L_m$=22.3dB |
| $SNR_s$=2.0dB | $H_s$=2.6dB | $M_s$=2.2dB | $L_s$=2.6dB |

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 16.7 | 19.8 | 27.1 | 35.3 | 35.5 | 31.3 | 31.0 |
| Standard deviation Sf [dB] | 3.0 | 2.7 | 3.4 | 3.6 | 3.2 | 3.5 | 3.8 |
| APV Mf-Sf [dB] | 13.7 | 17.0 | 23.7 | 31.7 | 32.3 | 27.8 | 27.2 |

## EM-5002B

CE ANSI AS/NZS certified products

**Folding Headband Earmuffs**

**Features and Benefits:**

+ Padded headband and ear cups for extended comfort.
+ Stainless steel wire for easy personalized fit adjustment.
+ Unique Double-shell design guarantee offer high noise Reduction Rating.
+ Generous space inside cup to help the ears breathe thus improving comfort.
+ Professional earmuffs for durability and reliability.
+ Available in several versions including: Headband, foldable, neckband and helmet mounted versions, All versions are available in high visibility colors.

Suitable for Loud Machinery, Lawn Movers, Engines, Industrial Machines,Power tools, Loud Music, Noise places.

**Adjustable headband design**
Designed with retractable Stainless steel at the end of headband adjust to fit all size.

**Swivel Cup lined with Soft Foam**
Swivel equipped with soft Foam Ear Cups Provide more snug and sealed embraced your ears

| Test frequentcies (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Mean attenuation(dB) | 15.5 | 25.7 | 33.0 | 39.8 | 36.1 | 39.5 | 35.7 |
| Standard Deviation(dB) | 1.6 | 2.2 | 2.8 | 3.3 | 2.4 | 3.4 | 2.2 |
| Mean-minus-Std. dev.dB/APV | 13.9 | 23.5 | 30.2 | 36.5 | 33.8 | 36.1 | 33.4 |

| SNR= 33dB | H= 35 dB | M= 32 dB | L= 23 dB |
|---|---|---|---|
| $SNR_m$ = 34.5dB | $H_m$ = 37.4dB | $M_m$ = 33.2dB | $L_m$ = 24.2dB |
| $SNR_s$ = 1.6dB | $H_s$ = 2.0dB | $M_s$ = 1.7dB | $L_s$ = 1.5dB |

EN 352-1:2020 **SNR:33dB**

ANSI S3.19-1974 Attenuation data

**NRR:26dB**

AS/NZ S1270:2002

**SLC(80): 32.5dB**

**Class 5**

PACKING INFO

| UNIT PACK | COLOR BOX |
|---|---|
| QTY/CTN | 30PCS |
| CTN SIZE | 50x33x43CM |
| CBM/CTN | 0.071CBM |
| 20FT | 11200CPCS |

## EM-5002

CE ANSI

SNR: 33dB NRR: 26dB

## EM-5002A

CE ANSI AS/NZS certified products

SNR= 34dB H= 36 dB M= 32 dB L= 24 dB
$SNR_m$ = 34.9dB $H_m$ = 37.1dB $M_m$ = 33.4dB $L_m$ = 26.2dB
$SNR_s$ = 1.3dB $H_s$ = 1.5dB $M_s$ = 1.7dB $L_s$ = 2.1dB

**SNR: 34dB**
EN 352-1:2020

**NRR: 27dB**

**SLC(80): 32.2dB**
**CLASS 5**

## EM-5002C

CE AS/NZS certified products

**SNR: 31dB**
**SLC(80): 30.2dB CLASS 5**

## EM-5002D

25mm/30mm adaptor plug option

**SNR: 30dB NRR: 26dB**
**SLC(80): 28.4dB CLASS 5**

CE ANSI AS/NZS certified products

## FM-2E

25mm/30mm adaptor plug option

**SNR: 30dB NRR: 24dB**
**SLC(80): 26.6dB CLASS 5**

CE ANSI AS/NZS certified products





## EM-5007B

CE ANSI AS/NZS certified products

**Folding Headband Earmuffs**

**Features and Benefits:**

+ Padded headband and ear cups for extended comfort.
+ Stainless steel wire for easy personalized fit adjustment.
+ Unique BDS-shell design guarantee offer high noise Reduction Rating.
+ Generous space inside cup to help the ears breathe thus improving comfort.
+ Professional earmuffs for durability and reliability.
+ Available in several versions including: Headband, foldable, neckband and helmet mounted versions,
+ All versions are available in high visibility colors.

Suitable for Loud Machinery, Lawn Movers, Engines, Industrial Machines,Power tools, Loud Music, Noise places.

| Test frequentcies (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Mean attenuation(dB) | 17.9 | 22.9 | 33.7 | 41.5 | 38.4 | 35.8 | 35.0 |
| Standard Deviation(dB) | 2.8 | 1.8 | 3.0 | 3.4 | 3.0 | 3.6 | 3.7 |
| Mean-minus-Std. dev.dB/APV | 15.1 | 21.1 | 30.7 | 38.1 | 35.3 | 32.2 | 31.3 |

| SNR= 33dB | H= 35 dB | M= 31 dB | L= 23 dB |
|---|---|---|---|
| $SNR_m$ = 34.1dB | $H_m$ = 36.9dB | $M_m$ = 32.9dB | $L_m$ = 24.7dB |
| $SNR_s$ = 1.5dB | $H_s$ = 2.4dB | $M_s$ = 1.5dB | $L_s$ = 1.9dB |

EN 352-1:2020 **SNR:33dB**

ANSI S3.19-1974 Attenuation data

**NRR:26dB**

AS/NZ S1270:2002

**SLC(80): 33.3dB**

**Class 5**

PACKING INFO

| UNIT PACK | COLOR BOX |
|---|---|
| QTY/CTN | 20PCS |
| CTN SIZE | 50X30X40CM |
| CBM/CTN | 0.06CBM |
| 20FT | 9300PCS |

## EM-5007

SNR: 34dB NRR: 27dB
SLC(80): 32.8dB CLASS 5

CE ANSI AS/NZS certified products

## EM-5007A

CE ANSI AS/NZS certified products

**SNR: 33dB NRR: 26dB**
**SLC(80): 33.3dB CLASS 5**

## EM-5007B

ANSI AS/NZS certified products

**NRR: 26dB**
**SLC(80): 25.8dB**
**CLASS 5**

## EM-5007D

25mm/30mm adaptor plug option

## EM-5007E

25mm/30mm adaptor plug option

CE ANSI AS/NZS certified products

**SNR: 30dB NRR: 25dB**
**SLC(80): 25.8dB CLASS 5**

## EM-5007E-2

## EM-5007E-N

ANSI **NRR: 27dB**

## EM-5003

**Double layer plastic Headband Earmuffs**
**Features and Benefits:**

+ Unique Double layer plastic headband and ear cups for extended comfort.
+ Soft and wide sealing rings filled with a unique combination foam to of fer optimum sealing and low pressure.
+ Generous space inside cup to help the ears breathe thus improving comfort.
+ Professional earmuffs for durability and reliability.
+ Available in high visibility colors.

Suitable for Loud Machinery, Lawn Movers, Engines, Industrial Machines, Power tools, Loud Music, Noise places.

| Test frequentcies (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Mean attenuation(dB) | 15.7 | 17.7 | 26.8 | 38.5 | 38.4 | 39.0 | 41.4 |
| Standard Deviation(dB) | 3.2 | 2.6 | 2.9 | 3.0 | 2.9 | 4.1 | 3.4 |
| Mean-minus-Std. dev.dB/APV | 12.5 | 15.1 | 23.9 | 35.5 | 35.5 | 34.8 | 38.0 |

| **SNR= 29dB** | **H= 36dB** | **M= 26dB** | **L= 18dB** |
|---|---|---|---|
| $SNR_m$ = 31.1dB | $H_m$ = 38.3dB | $M_m$ = 28.5dB | $L_m$ = 20.6dB |
| $SNR_s$ = 2.3dB | $H_s$ = 2.4dB | $M_s$ = 2.3dB | $L_s$ = 2.5dB |

| | |
|---|---|
| EN 352-1:2020 | **SNR:29dB** |
| ANSI S3.19-1974 Attenuation data | AS/NZ S1270:2002 |
| **NRR:22dB** | **SLC(80):29.2dB** |
| | **Class 5** |

PACKING INFO

| | |
|---|---|
| UNIT PACK | polybag+header card |
| QTY/CTN | 20PCS |
| CTN SIZE | 55X22X35CM |
| CBM/CTN | 0.042CBM |
| 20FT | 12860 PCS |

## EM-5003E

**Features and Benefits:**

+ Soft and wide sealing rings are filled with a unique combination foam to achieve optimal sealing and low - pressure contact.
+ Can be adjusted up and down, back and forth according to the user's head shape and needs to achieve the best wearing comfort and noise reduction effect.
+ Can be used in combination with various types of helmet to meet the comp-rehensive protection needs in different working scenarios.
+ Professional earmuffs with durability and reliability.
+ Available in high - visibility colors.

Suitable for industrial machinery, construction sites, factory workshops, mining operations, airport ground - handling work, forestry logging, etc.

| EN 352-3:2020 | ANSI S3. 19-1974 Noise Reduction Rate |
|---|---|
| **SNR 29dB** | **NRR 23dB** |

| Frequency [Hz] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 15.0 | 14.8 | 21.4 | 28.6 | 26.3 | 34.7 | 39.8 | 39.9 |
| Standard deviation Sf [dB] | 3.1 | 2.5 | 3.1 | 2.9 | 2.2 | 2.5 | 2.9 | 3.9 |
| APV Mf-Sf [dB] | 12.0 | 12.3 | 18.3 | 25.7 | 24.1 | 32.2 | 36.9 | 36.0 |

| **SNR=29dB** | **H=32dB** | **M=26dB** | **L= 20dB** |
|---|---|---|---|
| $SNR_m$=30.2dB | $H_m$=33.6dB | $M_m$=27.2dB | $L_m$=22.1dB |
| $SNR_s$=1.5dB | $H_s$=1.9dB | $M_s$=1.6dB | $L_s$=2.1dB |





## EM-5003D-N

**Features and Benefits:**

+ Soft and wide sealing rings are filled with a unique combination foam to achieve optimal sealing and low - pressure contact.
+ Can be adjusted up and down, back and forth according to the user's head shape and needs to achieve the best wearing comfort and noise reduction effect.
+ Specially designed for full brim helmet to meet the comprehensive protection needs in different working scenarios.

**Full brim helmet mounted**

## EM-5003D

25mm/30mm adaptor plug option

**Features and Benefits:**

+ Soft and wide sealing rings filled with a unique combination foam to offer optimum sealing and low pressure.
+ Generouos space inside cup to help the ears breathe thus improving comfort.
+ Professional earmuffs for durability and reliability.
+ Available in high visibility colors.

Suitable for Loud Machinery
Industrial Machines,Power tools, Loud Music, Noise places.

| EN 352-3:2020 | **SNR= 27dB** | **M= 25dB** |
|---|---|---|
| **SNR 27dB** | $SNR_m$ = 27.9dB | $M_m$ = 26.1dB |
| | $SNR_s$ = 1.2dB | $M_s$ = 1.4dB |
| | **H= 30dB** | **L= 17dB** |
| | $H_m$ = 31.5dB | $L_m$ = 18.7dB |
| | $H_s$ = 1.6dB | $L_s$ = 1.7dB |

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 13.7 | 15.8 | 25.0 | 33.9 | 35.7 | 28.5 | 30.6 |
| Standard deviation Sf [dB] | 2.5 | 2.3 | 2.6 | 2.5 | 3.2 | 2.1 | 2.8 |
| APV Mf-Sf [dB] | 11.2 | 13.5 | 22.4 | 31.4 | 32.5 | 26.5 | 27.8 |

NEW

## EM-5013E

ANSI S3. 19-1974
Noise Reduction Rate
**NRR 24dB**

- **Helmet-Mounted Design for Wide Brims**
  Specially engineered for safety helmets with wide brims, ensuring secure and stable attachment without interfering with helmet fit.
- **Quick and Convenient Attachment**
  Easy-to-install slot mounting system allows fast connection and removal from compatible safety helmets.
- **Reliable Noise Reduction**
  High-quality sound-absorbing materials and sealed ear cushions provide effective protection against industrial noise.
- **Adjustable and Comfortable Fit**
  Flexible bracket structure allows the ear cups to adjust easily, providing consistent comfort during long working hours.

## EM-5008

**Features and Benefits.**

+ New Clarity improves safety and communication by blocking hazardous noise.
+ Unique plastic headband and ear cups for extended comfort and Insulation.
+ Professional earmuffs for durability and reliability.
+ Available in high visibility colors.
+ High attenuation provides ideal protection for workers exposed to high levels of hazardous noise.

EN 352-1:2020
**SNR 29dB**

ANSI S3. 19-1974
Noise Reduction Rate **NRR 22dB**

AS/NZS 1270:2002
**SLC(80) = 26.9dB CLASS 5**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 16.7 | 16.8 | 25.5 | 36.4 | 35.1 | 40.3 | 38.4 |
| Standard deviation Sf [dB] | 2.3 | 1.8 | 2.7 | 3.0 | 2.9 | 2.9 | 3.2 |
| APV Mf-Sf [dB] | 14.4 | 15.0 | 22.8 | 33.5 | 32.2 | 37.4 | 35.2 |

| **SNR= 29dB** | **H=34dB** | **M=26dB** | **L= 19dB** |
|---|---|---|---|
| $SNR_m$=30.2dB<br>$SNR_s$=1.6dB | $H_m$=36.6dB<br>$H_s$=2.2dB | $M_m$=27.6dB<br>$M_s$=1.6dB | $L_m$=20.3dB<br>$L_s$=1.6dB |

## EM-5010

NEW

**Features and Benefits.**

+ Padded headband and ear cups for extended comfort.
+ Unique shell design guarantees to offer a high noise reduction level.
+ Generous space inside cup to help the ears breathe, thus improving comfort.
+ Professional earmuffs for durability and reliability.

Suitable for industrial scenarios like machinery operation and power tool use, as well as environments with loud music and other noisy settings.

EN 352-1:2020
**SNR 34dB**

ANSI S3. 19-1974
Noise Reduction Rate
**NRR 27dB**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 19.3 | 25.0 | 33.1 | 39.6 | 39.2 | 41.9 | 40.0 |
| Standard deviation Sf [dB] | 2.8 | 2.7 | 2.8 | 3.3 | 3.1 | 2.6 | 4.1 |
| APV Mf-Sf [dB] | 16.5 | 22.3 | 30.3 | 36.3 | 36.0 | 39.3 | 35.9 |

| **SNR=34dB** | **H=37dB** | **M=32dB** | **L= 24dB** |
|---|---|---|---|
| SNRm=36.2dB<br>SNRs=2.3dB | Hm=40.2dB<br>Hs=2.8dB | Mm=34.2dB<br>Ms=2.3dB | Lm=26.3dB<br>Ls=2.3dB |

## EM-5011

NEW

**Features and Benefits.**

+ Padded headband and ear cups for extended comfort.
+ Priced affordably with good noise - reduction, ideal for budget - conscious buyers.
+ Lightweight with soft, breathable ear pads for long - wear comfort.
+ Professional earmuffs for durability and reliability.

Suitable for industrial scenarios like machinery operation and power tool use, as well as environments with loud music and other noisy settings.

EN 352-1:2020
**SNR 30dB**

ANSI S3. 19-1974
Noise Reduction Rate
**NRR 23dB**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 14.8 | 22.6 | 29.0 | 34.6 | 36.9 | 36.2 | 32.8 |
| Standard deviation Sf [dB] | 3.1 | 3.0 | 3.4 | 2.8 | 2.8 | 2.4 | 3.8 |
| APV Mf-Sf [dB] | 11.8 | 19.6 | 25.5 | 31.9 | 34.1 | 33.8 | 29.1 |

| **SNR=30dB** | **H=33dB** | **M=28dB** | **L= 20dB** |
|---|---|---|---|
| $SNR_m$=32.0dB<br>$SNR_s$=2.1dB | $H_m$=35.4dB<br>$H_s$=1.9dB | $M_m$=30.4dB<br>$M_s$=2.3dB | $L_m$=22.8dB<br>$L_s$=2.9dB |





## EM-5001B

**Folding Headband Earmuffs**

**Features and Benefits:**

+ Folding headband and ear cups for extended comfort.
+ Stainless steel wire for easy personalized fit adjustment.
+ Standard shell design guarantee of fer high noise Reduction Rating.
+ Generous space inside cup to help the ears breathe thus improving comfort.
+ Professional earmuffs for durability and reliability.
+ Available in several versions including: Headband, foldable, neckband and helmet mounted versions, All versions are available in high visibility colors.

Suitable for Loud Machinery, Lawn Movers, Engines, Industrial Machines,Power tools, Loud Music, Noise places.

| Test frequentcies (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Mean attenuation(dB) | 17.8 | 23.3 | 32.8 | 40.6 | 38.7 | 34.0 | 34.3 |
| Standard Deviation(dB) | 2.1 | 2.2 | 3.1 | 2.6 | 4.2 | 3.1 | 3.2 |
| Mean-minus-Std. dev.dB/APV | 15.6 | 21.1 | 29.7 | 37.9 | 34.5 | 30.8 | 31.1 |

| **SNR= 32dB** | **H=34dB** | **M=31dB** | **L= 23dB** |
|---|---|---|---|
| SNRm=33.6dB<br>SNRs=1.4dB | $H_m$=35.6dB<br>$H_s$=1.6dB | $M_m$=32.7dB<br>$M_s$=1.6dB | $L_m$=24.8dB<br>$L_s$=1.6dB |

EN 352-1:2020 **SNR:32dB**

ANSI S3.19-1974
Attenuation data
**NRR:26dB**

AS/NZ S1270:2002
**SLC(80): 29.2dB**
**Class 5**

PACKING INFO

| UNIT PACK | COLOR BOX |
|---|---|
| QTY/CTN | 20PCS |
| CTN SIZE | 50X28.5X40CM |
| CBM/CTN | 0.057CBM |
| 20FT | 9800 PCS |

### EM-5001B

SNR: 32dB NRR: 26dB
SLC(80): 29.2dB CLASS 5

### EM-5001

### EM-5001A

SNR: 32dB NRR: 27dB
SLC(80): 29.8dB CLASS 5

### EM-5001C

### EM-5001D

25mm/30mm adaptor plug option

### EM-5001E

25mm/30mm adaptor plug option

SNR: 30dB NRR: 22dB

## EM-5006

CE ANSI AS/NZS certified products

**Headband Earmuffs**

**Features and Benefits:**

+ Padded headband with trim and ear cups for extended comfort.
+ Stainless steel wire for easy personalized fit adjustment.
+ Unique shell design guarantee offer high noise Reduction Rating.
+ Generous space inside cup to help the ears breathe thus improving comfort.
+ Professional earmuffs for durability and reliability.
+ Available in several versions including: Headband, foldable, neckband and helmet mounted versions, All versions are available in high visibility colors.

| EN 352-1:2020 | ANSI S3.19-1974 Attenuation data | AS/NZ S1270:2002 |
|---|---|---|
| **SNR:32dB** | **NRR:27dB** | **SLC(80): 32.3dB Class 5** |

| Test frequentcies (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Mean attenuation(dB) | 18.0 | 26.6 | 34.7 | 41.0 | 38.6 | 32.9 | 34.3 |
| Standard Deviation(dB) | 3.1 | 2.3 | 3.5 | 2.9 | 3.1 | 3.6 | 3.7 |
| Mean-minus-Std. dev.dB/APV | 14.9 | 24.3 | 31.3 | 38.1 | 35.5 | 29.3 | 30.6 |

| SNR= 32dB | H= 32 dB | M= 32 dB | L= 24 dB |
|---|---|---|---|
| $SNR_m$ = 34.2dB | $H_m$ = 35.2dB | $M_m$ = 34.0dB | $L_m$ = 26.3dB |
| $SNR_s$ = 1.9dB | $H_s$ = 2.8dB | $M_s$ = 1.7dB | $L_s$ = 2.5dB |

PACKING INFO

| UNIT PACK | COLOR BOX |
|---|---|
| QTY/CTN | 20PCS |
| CTN SIZE | 50X30X40CM |
| CBM/CTN | 0.06CBM |
| 20FT | 9300PCS |

NRR: 28dB ANSI

**EM-5006 Plus**

## EM-5009B

CE ANSI

**Folding Headband Earmuffs**

**Features and Benefits:**

+ Padded headband and ear cups for extended comfort.
+ Stainless steel wire for easy personalized fit adjustment.
+ Unique shell design guarantee offer high noise Reduction Rating.
+ Generous space inside cup to help the ears breathe thus improving comfort.
+ Professional earmuffs for durability and reliability.

| EN 352-1:2020 | ANSIS3.19-1974 Attenuation data |
|---|---|
| **SNR 32dB** | **NRR 25dB** |

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 16.2 | 21.1 | 32.6 | 39.1 | 35.5 | 38.1 | 39.2 |
| Standard deviation Sf [dB] | 2.4 | 2.4 | 2.6 | 2.2 | 2.5 | 2.6 | 3.0 |
| APV Mf-Sf [dB] | 13.8 | 18.7 | 30.0 | 36.9 | 33.0 | 35.5 | 36.3 |

| SNR= 32dB | H= 35 dB | M= 30 dB | L= 21 dB |
|---|---|---|---|
| $SNR_m$ = 33.3dB | $H_m$ = 37.3dB | $M_m$ = 31.4dB | $L_m$ = 22.8dB |
| $SNR_s$ = 1.5dB | $H_s$ = 1.9dB | $M_s$ = 1.6dB | $L_s$ = 1.8dB |





## DM-1 Dog Earmuff

**Features and Benefits:**

+ Over Head Hearing Protection For Animals.
+ Wide Gel Cushion Cover Ears For Better Noise Reduction Effect & Comfort.
+ Comfortable and Lightweight.
+ Adjustable Elasticity Straps For Optimum Fit.

## EM-5031

CE ANSI

NEW

**Features and Benefits:**

+ Soft headband padding providing use's extra conform during wearing.
+ Stainless steel wire for easy personalized adjustment.
+ Unique luxury shell design ganrantee offer high noise reduction rating.
+ Professional earmuffs for durability and reliability.
+ Customized logo stamp available
+ Available in Several Versions, Including headband, foldable, neckband and helmet styles, in various colors.

| EN 352-1:2020 | AS/NZS 1270:2002 | ANSIS3.19-1974 Noise Reduction Rate |
|---|---|---|
| **SNR 31dB** | **SLC(80) = 29.2dB CLASS 5** | **NRR 24dB** |

| Test frequentcies (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Mean attenuation(dB) | 20.1 | 25.8 | 31.6 | 33.2 | 30.7 | 39.8 | 41.1 |
| Standard Deviation(dB) | 3.5 | 2.2 | 3.0 | 3.4 | 3.2 | 3.4 | 3.9 |
| Mean-minus-Std. dev.dB/APV | 16.6 | 23.6 | 28.6 | 29.8 | 27.4 | 36.5 | 37.2 |

| SNR= 31dB | H=30dB | M=29dB | L= 25dB |
|---|---|---|---|
| $SNR_m$=33.1dB | $H_m$=33.1dB | $M_m$=31.4dB | $L_m$=26.8dB |
| $SNR_s$=2.2dB | $H_s$=3.0dB | $M_s$=2.4dB | $L_s$=2.3dB |

## EM-5031B

## EM-5031C

ANSI NRR: 27dB

## EM-7003

CE

Features and Benefits:

+ The headband features a steel wire encased in TPE soft rubber, offering a comfortable and secure fit that adapts to your head shape.
+ Generous interior space within the ear cups allows for airflow, keeping your ears cool and comfortable during extended use.
+ Ultra-soft and wide ear cushions fit the ear perfectly, preventing any squeezing of the head and ear. Ideal for long-time wear.

EN 352-1:2020
**SNR 32dB**

| SNR=32dB | H=33dB |
|---|---|
| $SNR_m$=34.1dB | $H_m$=36.2dB |
| $SNR_s$=2.4dB | $H_s$=2.8dB |
| **M=30dB** | **L= 23dB** |
| $M_m$=32.0dB | $L_m$=25.9dB |
| $M_s$=2.2dB | $L_s$=2.5dB |

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 19.4 | 24.1 | 32.1 | 33.6 | 35.4 | 38.5 | 37.6 |
| Standard deviation Sf [dB] | 3.2 | 3.0 | 2.9 | 2.7 | 2.9 | 3.8 | 3.8 |
| APV Mf-Sf [dB] | 16.2 | 21.1 | 29.2 | 30.9 | 32.4 | 34.7 | 33.8 |

## EM-7005

CE

Features and Benefits:

+ The headband features a steel wire encased in TPE soft rubber, offering a comfortable and secure fit that adapts to your head shape.
+ Generous interior space within the ear cups allows for airflow, keeping your ears cool and comfortable during extended use.
+ Ultra-soft and wide ear cushions fit the ear perfectly, preventing any squeezing of the head and ear. Ideal for long-time wear.

EN 352-1:2020
**SNR 28dB**

| SNR=28dB | H=33dB |
|---|---|
| $SNR_m$=29.7dB | $H_m$=35.3dB |
| $SNR_s$=1.8dB | $H_s$=2.2dB |
| **M=25dB** | **L= 18dB** |
| $M_m$=27.3dB | $L_m$=19.8dB |
| $M_s$=1.9dB | $L_s$=1.8dB |

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 14.1 | 17.6 | 25.3 | 33.1 | 35.0 | 38.2 | 34.9 |
| Standard deviation Sf [dB] | 2.3 | 2.5 | 2.6 | 2.5 | 2.8 | 2.9 | 3.3 |
| APV Mf-Sf [dB] | 11.8 | 15.1 | 22.7 | 30.6 | 32.3 | 35.3 | 31.7 |

## EM-7007

CE

Features and Benefits:

+ The headband features a steel wire encased in TPE soft rubber, offering a comfortable and secure fit that adapts to your head shape.
+ Generous interior space within the ear cups allows for airflow, keeping your ears cool and comfortable during extended use.
+ Ultra-soft and wide ear cushions fit the ear perfectly, preventing any squeezing of the head and ear. Ideal for long-time wear.

EN 352-1:2020
**SNR 34dB**

| SNR=34dB | H=36dB |
|---|---|
| $SNR_m$=35.4dB | $H_m$=38.0dB |
| $SNR_s$=1.5dB | $H_s$=2.0dB |
| **M=32dB** | **L= 25dB** |
| $M_m$=33.9dB | $L_m$=26.5dB |
| $M_s$=1.7dB | $L_s$=2.0dB |

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 19.4 | 25.4 | 33.0 | 38.6 | 39.0 | 37.0 | 37.8 |
| Standard deviation Sf [dB] | 2.9 | 2.5 | 2.7 | 2.8 | 2.6 | 3.0 | 3.4 |
| APV Mf-Sf [dB] | 16.5 | 22.9 | 30.3 | 35.7 | 36.3 | 33.9 | 34.3 |

## EM-7008

CE

Features and Benefits:

+ The headband features a steel wire encased in TPE soft rubber, offering a comfortable and secure fit that adapts to your head shape.
+ Generous interior space within the ear cups allows for airflow, keeping your ears cool and comfortable during extended use.
+ Ultra-soft and wide ear cushions fit the ear perfectly, preventing any squeezing of the head and ear. Ideal for long-time wear.

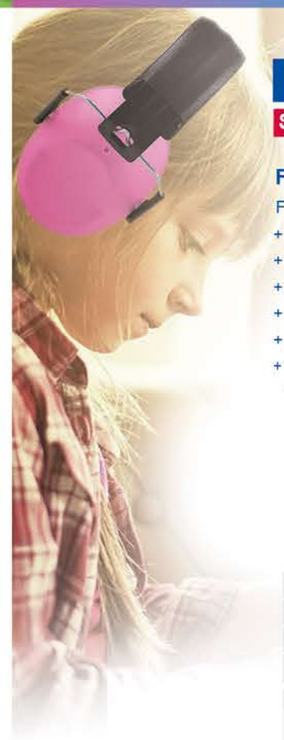
EN 352-1:2020
**SNR 29dB**

| SNR=29dB | H=35dB |
|---|---|
| $SNR_m$=30.6dB | $H_m$=36.5dB |
| $SNR_s$=1.7dB | $H_s$=1.7dB |
| **M=26dB** | **L= 18dB** |
| $M_m$=28.1dB | $L_m$=20.4dB |
| $M_s$=1.9dB | $L_s$=2.0dB |

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 15.2 | 17.5 | 27.1 | 35.6 | 34.8 | 41.7 | 36.7 |
| Standard deviation Sf [dB] | 2.0 | 2.5 | 2.8 | 2.5 | 1.9 | 2.7 | 3.0 |
| APV Mf-Sf [dB] | 13.2 | 15.0 | 24.2 | 33.2 | 32.9 | 39.0 | 33.7 |







## EM-5005

Shooting Earmuff

Central Testing Australian Standard AS/NZS 1270:2002 Lic.SIMKA0540 SAI GLOBAL

CE ANSI AS/NZS certified products

### Folding Headband Earmuffs

Features and Benefits:

+ Padded headband and ear cups for extended comfort.
+ Stainless steel wire for easy personalized fit adjustment.
+ Low profile design slim and easy to carry.
+ Professional earmuffs for durability and reliability.
+ Available in high visibility colors.
+ Customized water transfer printing pattern on muff cups are optional.

A B

Customized Printing

| Test frequentcies (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Mean attenuation(dB) | 13.6 | 15.7 | 21.0 | 28.4 | 33.2 | 42.6 | 42.8 |
| Standard Deviation(dB) | 3.2 | 2.1 | 1.9 | 2.4 | 2.8 | 3.3 | 4.1 |
| Mean-minus-Std. dev.dB/APV | 10.4 | 13.6 | 19.1 | 26.1 | 30.4 | 39.3 | 38.7 |

| SNR= 26dB | H= 32 dB | M= 23 dB | L= 16 dB |
|---|---|---|---|
| $SNR_m$ = 27.4dB | $H_m$ = 33.6dB | $M_m$ = 24.4dB | $L_m$ = 18.3dB |
| $SNR_s$ = 1.4dB | $H_s$ = 1.7dB | $M_s$ = 1.5dB | $L_s$ = 1.9dB |

EN 352-1:2020 **SNR:26dB**

ANSI S3.19-1974 Attenuation data

**NRR:20dB**

AS/NZ S1270:2002

**SLC(80): 25.8dB**

**Class 5**

NEW

## EM-5005F

CE

### Folding Headband Earmuffs

Features and Benefits:

+ Padded headband and ear cups for extended comfort.
+ Stainless steel wire for easy personalized fit adjustment.
+ Low profile design slim and easy to carry.
+ Professional earmuffs for durability and reliability.
+ Available in high visibility colors.
+ Customized water transfer printing pattern on muff cups are optional.

EN 352-1:2020
**SNR 29dB**

| Test frequentcies (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|---|
| Mean attenuation(dB) | 16.0 | 15.5 | 19.0 | 26.3 | 33.6 | 35.9 | 43.6 | 40.1 |
| Standard Deviation(dB) | 3.7 | 2.7 | 2.1 | 2.6 | 2.9 | 3.6 | 2.7 | 3.8 |
| Mean-minus-Std. dev.dB/APV | 12.3 | 12.7 | 17.0 | 23.7 | 30.6 | 32.2 | 40.9 | 36.3 |

| SNR= 29dB | H= 34 dB | M= 27 dB | L= 19 dB |
|---|---|---|---|
| $SNR_m$ = 31.1dB | $H_m$ = 36.9dB | $M_m$ = 28.5dB | $L_m$ = 21.3dB |
| $SNR_s$ = 1.9dB | $H_s$ = 2.6dB | $M_s$ = 1.9dB | $L_s$ = 1.9dB |



## KM-5

### Folding Headband Earmuffs

Features and Benefits:

+ Padded headband and ear cups for extended comfort.
+ Stainless steel wire for easy personalized fit adjustment.
+ Generous space inside cup to help the ears breathe thus improving comfort.
+ Mini slim design，foldable and easy to carry out.
+ Available in high visibility colors.

EN 352-1:2020
**SNR 24dB**

ANSI S3. 19-1974
Noise Reduction Rate
**NRR 19dB**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 10.7 | 13.5 | 22.5 | 32.4 | 33.0 | 36.3 | 32.9 |
| Standard deviation Sf [dB] | 2.6 | 2.4 | 4.0 | 4.5 | 3.9 | 3.3 | 3.9 |
| APV Mf-Sf [dB] | 8.1 | 11.1 | 18.5 | 27.9 | 29.2 | 33.0 | 29.0 |

| **SNR= 24 dB** | **H= 30 dB** | **M= 22 dB** | **L= 14 dB** |
|---|---|---|---|
| $SNR_m$ = 26.5dB | $H_m$ = 33.3dB | $M_m$ = 24.0dB | $L_m$ = 16.1dB |
| $SNR_s$ = 2.3dB | $H_s$ = 3.2dB | $M_s$ = 2.5dB | $L_s$ = 2.1dB |

## KM-5F

NEW

### Folding Headband Earmuffs

Features and Benefits:

+ Padded headband and ear cups for extended comfort.
+ Stainless steel wire for easy personalized fit adjustment.
+ Generous space inside cup to help the easy breathe thus improving comfort.
+ Mini slim design，foldable and eary to carry out.
+ Available in high visibility colors.






## KM-2
## KM-2-1

AS/NZS certified products

### Folding Headband Earmuffs

Features and Benefits:

+ Padded headband and ear cups for extended comfort.
+ Stainless steel wire for easy personalized fit adjustment.
+ Professional earmuffs for durability and reliability.
+ Available in high visibility colors.
+ Customized water transfer printing pattern on muff cups are optional.

EN 352-1:2020
**SNR 27dB**

ANSI S3. 19-1974
Noise Reduction Rate **NRR 21dB**
AS/NZS 1270:2002
**SLC(80) = 25.8dB CLASS 5**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 14.6 | 15.5 | 22.9 | 30.7 | 34.4 | 41.5 | 41.0 |
| Standard deviation Sf [dB] | 3.2 | 2.1 | 1.8 | 2.3 | 2.8 | 3.0 | 2.7 |
| APV Mf-Sf [dB] | 11.4 | 13.3 | 21.1 | 28.4 | 31.5 | 38.5 | 38.3 |

| **SNR= 27dB** | **H=33dB** | **M=24dB** | **L= 17dB** |
|---|---|---|---|
| $SNR_m$=28.3dB | $H_m$=35.0dB | $M_m$=25.4dB | $L_m$=18.7dB |
| $SNR_s$=1.3dB | $H_s$=1.9dB | $M_s$=1.2dB | $L_s$=1.8dB |

KM-2-1

## KM-3

AS/NZS certified products

### Headband Earmuffs

Features and Benefits:

+ Plastic headband ear cups for extended comfort.
+ Professional earmuffs for durability and reliability.
+ Available in high visibility colors.
+ Customized water transfer printing pattern on muff cups are optional.

EN 352-1:2020
**SNR 26dB**

ANSI S3. 19-1974
Noise Reduction Rate **NRR 20dB**
AS/NZS 1270:2002
**SLC(80) = 26.1dB CLASS 5**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 13.2 | 14.7 | 22.1 | 30.7 | 35.8 | 41.9 | 41.0 |
| Standard deviation Sf [dB] | 2.8 | 2.7 | 2.8 | 2.3 | 2.6 | 3.4 | 2.9 |
| APV Mf-Sf [dB] | 10.4 | 12.0 | 19.3 | 28.4 | 33.1 | 38.5 | 38.1 |

| **SNR= 26dB** | **H=33dB** | **M=23dB** | **L= 15dB** |
|---|---|---|---|
| $SNR_m$=27.6dB | $H_m$=35.3dB | $M_m$=24.7dB | $L_m$=17.6dB |
| $SNR_s$=2.1dB | $H_s$=1.9dB | $M_s$=2.1dB | $L_s$=2.2dB |

## BM-1

( 0~12 Months )

### Features and Benefits:

+ The age range for our baby earmuffs are from newborn to 12 months old.
+ Baby earmuffs use an adjustable headband to hold the earmuffs in lace,preventing uneven pressure being placed on the sides of your baby's head,like traditional earmuffs.
+ Our new adjustable headband design allows you to adjust the size of the headband to fit your baby's head better.
+ All headbands are interchangeable.To insert or remove a headband, simply lift the clip on each ear cup and slide the headband in or out.
+ Soft and smooth velcro ensures gentle contact with your baby's delicate skin, preventing and discomfort.

EN 352-1:2020
**SNR 23dB**

ANSI S3. 19-1974
Noise Reduction Rate **NRR 22dB**

AS/NZS 1270:2002
**SLC(80) = 26.8dB CLASS 5**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 11.5 | 13.8 | 22.9 | 31.4 | 32.9 | 39.2 | 38.8 |
| Standard deviation Sf [dB] | 5.1 | 4.4 | 3.7 | 3.1 | 1.9 | 4.7 | 4.8 |
| APV Mf-Sf [dB] | 6.4 | 9.4 | 19.2 | 28.3 | 31 | 34.5 | 34 |

| **SNR=23dB** | **H=32dB** | **M=21dB** | **L= 12dB** |
|---|---|---|---|
| $SNR_m$=26.9dB | $H_m$=33.9dB | $M_m$=24.3dB | $L_m$=16.5dB |
| $SNR_s$=3.5dB | $H_s$=2.1dB | $M_s$=3.6dB | $L_s$=4.3dB |


## BM-3

( 3 Months ~ 3 Years )

### Features and Benefits:

+ Perfect hearing protection for little ears
+ Comfortable, adjustable, and incredibly lightweight






## BM-5

( 3 Months ~ 3 Years )

### Features and Benefits:

+ Perfect hearing protection for little ears
+ Comfortable, adjustable, and incredibly lightweight

EN 352-1:2020
**SNR 23dB**

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 13.9 | 14.8 | 22.8 | 31.8 | 35.6 | 31.1 | 28.3 |
| Standard deviation Sf [dB] | 4.9 | 3.8 | 4.1 | 3.5 | 3.4 | 5.2 | 5.9 |
| APV Mf-Sf [dB] | 9.0 | 11.0 | 18.7 | 28.3 | 32.2 | 25.9 | 22.4 |

| **SNR=23dB** | **H=27dB** | **M=22dB** | **L=14dB** |
|---|---|---|---|
| $SNR_m$=26.8dB | $H_m$=31.2dB | $M_m$=24.8dB | $L_m$=18.0dB |
| $SNR_s$=3.4dB | $H_s$=4.0dB | $M_s$=3.3dB | $L_s$=3.8dB |

## BM-7

( 3 Months ~ 3 Years )

### Features and Benefits:

+ Perfect hearing protection for little ears
+ Comfortable, adjustable, and incredibly lightweight
+ Children earmuffs use an adjustable folding headband to hold the earmuffs in place, preventing uneven pressure being placed on the sides of your Children's head,like traditional earmuffs.

EN 352-1:2020
**SNR 24dB**

| **SNR=24dB** | **H=29dB** |
|---|---|
| $SNR_m$=27.8dB | $H_m$=32.4dB |
| $SNR_s$=3.9dB | $H_s$=3.9dB |
| **M=22dB** | **L=14dB** |
| $M_m$=25.9dB | $L_m$=18.5dB |
| $M_s$=3.9dB | $L_s$=4.5dB |

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 13.8 | 15.6 | 24.6 | 34.2 | 37.0 | 31.9 | 29.6 |
| Standard deviation Sf [dB] | 5.1 | 4.8 | 3.6 | 3.3 | 3.6 | 4.9 | 6.3 |
| APV Mf Sf [dB] | 8.7 | 10.8 | 21.0 | 30.9 | 33.4 | 27.0 | 23.3 |

NEW

## EM-9011C

CE ANSI AS/NZS certified products

1. Telescopic arm adjustment
2. Microphone
3. Level-dependent Power On/Off, RAL sound control
4. Aux in Jack
5. Type C charging port
6. Light indication

NEW

## EM-9011M

1. Telescopic arm adjustment
2. Microphone
3. Level-dependent Power On/Off, RAL sound control
4. Aux in Jack
5. Type C charging port
6. Light indication
7. Bluetooth 5.4
8. Sound Monitoring

The is a safety hearing protection headset specifically designed for shooting enthusiasts. Equipped with a professional noise-canceling circuit, it effectively reduces noise-induced hearing damage in shooting and high-noise environments. Meanwhile, through optimized sound pickup functionality, it allows you to clearly capture ambient sounds and maintain good communication capabilities. Additionally, its lightweight foldable design low head pressure and makes it more portable.

EN 352-1:2020
**SNR 30dB**

ANSI S3.19-1974 Attenuation data **NRR 22dB**
AS/NZ S1270:2002
**SLC(80):20dB** **CLASS 3**

| Test frequentcies (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|---|
| Mean attenuation(dB) | 18.2 | 17.5 | 21.8 | 28.6 | 33.8 | 35.6 | 40.4 | 39.9 |
| Standard Deviation(dB) | 5.3 | 4.3 | 2.3 | 3.5 | 3.5 | 3.5 | 3.1 | 3.7 |
| Mean-minus-Std. dev.dB/APV | 12.9 | 13.2 | 19.5 | 25.1 | 30.2 | 32.1 | 37.3 | 36.1 |

| SNR=30dB | H=34dB | M=28dB | L=21dB |
|---|---|---|---|
| $SNR_m$=32.8dB | $H_m$=36.8dB | $M_m$=30.5dB | $L_m$=23.7dB |
| $SNR_s$=2.6dB | $H_s$=2.9dB | $M_s$=2.7dB | $L_s$=3.0dB |

### Feature

- Real-time monitoring of ambient sounds; high-decibel sounds (over 82 dB) are automatically compressed to a safe range to avoid hearing damage.
- Preserves sound details at safe volume levels, combined with high-fidelity technology, enabling clear perception of key sounds even in noisy enviro-nments.
- Lightweight design + foldable headband for easy storage and portability.
- Built-in 800mAh rechargeable lithium battery, providing up to 30-35 hours of battery life; full charge takes approximately 2-2.5 hours.
- One-knob operation for controlling power and volume.
- Equipped with comfortable, high-sealing ear cushions, ensuring excellent noise reduction performance with SNR 30dB (NRR 22dB).
- Suitable for shooting, hunting, woodworking, mowing, chainsaw operations,and various noisy environments to protect hearing.





## EM-9003

CE ANSI

**Features and Benefits:**

+ Adjustable headband for secure fit; compact folding design for convenient storage.
+ Includes AUX input and 3.5 mm connection cord for MP3 players or other audio devices.
+ Optional Function :
  If the ambient sound is greater than or equal to 82db, the threshold function is activated, automatically attenuating the sound that exceeds the threshold, so that the sound heard by the headphones is attenuated to the set threshold range. When the ambient sound is less than 82db, the threshold function is activated, automatically amplifying the external sound to reach the set threshold.Stereo speaker providing more natural listening and enhanced communication.
+ Built-in directional microphones amplify range commands and other ambient sounds to a safe 82 dB, stereo speaker providing more natural listening and enhanced communication.
+ Approximately 150 hours of battery life; works well and long with AAA Batteries.

### Sound Amplification Electronic Earmuff

EN 352-6:2020
**-6.4 dBV (478.6 millivolts)**

EN 352-4:2020
**H=100.6 M=100.2 L=93.6**

EN 352-1:2020
**SNR 29dB**

ANSI S3. 19-1974 Noise Reduction Rate **NRR 21dB** **CSA Class B**

| Frequency [Hz] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 17.7 | 14.0 | 19.5 | 27.8 | 33.9 | 35.6 | 39.5 | 37.5 |
| Standard deviation Sf [dB] | 1.9 | 2.6 | 1.7 | 2.7 | 3.1 | 3.6 | 4.2 | 3.3 |
| APV Mf-Sf [dB] | 15.8 | 11.4 | 17.8 | 25.0 | 30.8 | 32.0 | 35.2 | 34.2 |

| SNR= 29dB | H=34dB | M=27dB | L= 19dB |
|---|---|---|---|
| $SNR_m$=31.1dB | $H_m$=36.3dB | $M_m$=28.8dB | $L_m$=20.9dB |
| $SNR_s$=1.6dB | $H_s$=2.6dB | $M_s$=1.7dB | $L_s$=1.9dB |

CE ANSI AS/NZS certified products

## EM-9001BP-E

**Features and Benefits:**

- Premium Hearing Protector: SNR: 29 dB noise reduction rating, excellent effect of noise reduction.
- BLUETOOTH TECHNOLOGY the built in microphone allow to make phone calls & stream music.
- BLUETOOTH: version 5.1 is the latest Bluetooth technology that provides lower consumption, more sensitive experience and a faster & more stable connection, also has a stereo sound quality that provides you with a smooth music experience.
- Voice assistant for easy set-up and guidance, hands free.
- Includes AUX input and 3.5mm connection cord for MP3 players or other audio devices.

EN 352-3:2020
**SNR 29dB**
EN 352-6; EN 352-8

ANSI S3. 19-1974 Noise Reduction Rate **NRR 23dB**
AS/NZS 1270:2002
**SLC(80) = 22.7dB CLASS 4**

| Frequency [Hz] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 19.9 | 18.6 | 21.7 | 28.6 | 33.4 | 31.0 | 37.7 | 40.2 |
| Standard deviation Sf [dB] | 3.4 | 3.2 | 3.9 | 3.5 | 2.1 | 3.7 | 3.4 | 4.4 |
| APV Mf-Sf [dB] | 16.4 | 15.4 | 17.7 | 25.0 | 31.3 | 27.2 | 34.3 | 35.8 |

| SNR= 29dB | H=30dB | M=27dB | L= 21dB |
|---|---|---|---|
| $SNR_m$=31.9dB | $H_m$=33.3dB | $M_m$=29.9dB | $L_m$=24.2dB |
| $SNR_s$=2.9dB | $H_s$=3.3dB | $M_s$=2.9dB | $L_s$=3.3dB |

## EM-9001M

EN 352-4; EN 352-6; EN 352-8

| Test frequentcies (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Mean attenuation(dB) | 17.9 | 20.0 | 24.9 | 33.1 | 31.5 | 39.0 | 40.9 |
| Standard Deviation(dB) | 2.7 | 2.4 | 2.8 | 3.4 | 3.0 | 3.5 | 3.1 |
| Mean-minus-Std. dev.dB/APV | 15.2 | 17.6 | 22.1 | 29.8 | 28.5 | 35.5 | 37.8 |

**SNR= 29dB** $SNR_m$ = 30.6dB $SNR_s$ = 1.8dB
**H= 31 dB** $H_m$ = 33.7dB $H_s$ = 2.4dB
**M= 26 dB** $M_m$ = 28.2dB $M_s$ = 2.0dB
**L= 20 dB** $L_m$ = 22.6dB $L_s$ = 2.2dB

EN 352-1:2020 **SNR:29dB**

ANSI S3.19-1974 Attenuation data — AS/NZS **SLC(80): 27.1dB Class 5**

**NRR:24dB**

| Bluetooth Version | Bluetooth 5.0 | Static current | 20uA |
|---|---|---|---|
| Support protocols | HFP 1.7，HSP 1.2，A2DP 1.3，AVRCP 1.6，SPP 1.2 and PBAP 1.0 | speaker frequency response | 20Hz~20KHz |
| Transmission distance | > 10 meters | speaker impedance | 32±3Ω |
| Transmitting power | 6dbm | 6dbm Storage temperature | -10-55°C |
| Call life | > 30 hours | Working temperature | 0-40°C |
| Charging time | 3.5 hours | Working humidity | <80% |



### EM-9001M ELECTRONIC EARMUFFS WITH MULTIFUNCTION

- Premium Hearing Protector: SNR: 29 dB noise reduction rating, excellent effect of noise reduction.
- BLUETOOTH TECHNOLOGY: the built in microphone allow to make phone calls & stream music.
- BLUETOOTH 5.0: engineered with the latest Bluetooth 6.0 technology that provides lower consumption, more sensitive experience and a faster & more stable connection, also has a stereo sound quality that provides you with a smooth music experience.
- 1.Atcively listens and automatically compress sounds when ambient sounds reach 82dB,
  2.Atcively listens and automatically cut off when ambient sounds reach 82dB.
  providing noise optimal noise reduction across all frequencies, idea for both indoor and out door shooters and hunters.
- This active hearing protector uses SMART technologies to suppress harmful gunshot noise and amplify low-level sounds, reduces background noise for clearer conversation and hearing of commands.
- Voice Assistant for easy set-up and guidance, hands free.
- Includes AUX input and 3.5mm connection cord for MP3 players or other audio devices.

## EM-9001M-E







## EM-9001BP

### EM-9001BP ELECTRONIC EARMUFFS WITH BLUETOOTH

- Premium Hearing Protector: SNR: 30 dB noise reduction rating, excellent effect of noise reduction.
- BLUETOOTH TECHNOLOGY the built in microphone allow to make phone calls & stream music.
- BLUETOOTH: engineered with the latest Bluetooth technology that provides lower consumption, more sensitive experience and a faster & more stable connection, also has a stereo sound quality that provides you with a smooth music experience.
- Voice assistant for easy set-up and guidance, hands free.
- Includes AUX input and 3.5mm connection cord for MP3 players or other audio devices.



EM-9001BP EN 352-6; EN 352-8

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 18.3 | 22.5 | 29.0 | 33.8 | 29.6 | 35.0 | 37.8 |
| Standard deviation Sf [dB] | 2.4 | 2.0 | 2.3 | 2.7 | 2.3 | 3.3 | 2.4 |
| APV Mf-Sf [dB] | 15.9 | 20.5 | 26.7 | 31.2 | 27.4 | 31.7 | 35.4 |

**SNR= 30dB** $SNR_m$=31.4dB $SNR_s$=1.2dB
**H=30dB** $H_m$=31.8dB $H_s$=1.8dB
**M=29dB** $M_m$=29.9dB $M_s$=1.3dB
**L= 23dB** $L_m$=24.5dB $L_s$=1.6dB

**SNR 30dB** EN 352-1:2020

ANSI S3. 19-1974 Noise Reduction Rate **NRR 23dB**

AS/NZS 1270:2002 **SLC(80) = 23.7dB CLASS 4**

## EM-9001C

### EM-9001C ELECTRONIC EARMUFFS WITH COMPRESSION

- Premium Hearing Protector: SNR: 28 dB noise reduction rating, excellent effect of noise reduction.
- 1.Atcively listens and automatically compress sounds when ambient sounds reach 82dB,
  2.Atcively listens and automatically cut off when ambient sounds reach 82dB.
  providing noise optimal noise reduction across all frequencies, idea for both indoor and out door shooters and hunters.
- This active hearing protector uses SMART technologies to suppress harmful gunshot noise and amplify low-level sounds, reduces background noise for clearer conversation and hearing of commands.
- Includes AUX input and 3.5mm connection cord for MP3 players or other audio devices.



EM-9001C

| Frequency [Hz] | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 16.3 | 19.0 | 24.5 | 33.1 | 32.3 | 36.8 | 39.9 |
| Standard deviation Sf [dB] | 2.7 | 2.9 | 3.0 | 2.5 | 2.6 | 2.7 | 3.0 |
| APV Mf-Sf [dB] | 13.6 | 16.1 | 21.5 | 30.5 | 29.7 | 34.2 | 36.9 |

**SNR= 28dB** $SNR_m$ = 30.1dB $SNR_s$ = 1.9dB
**H= 32 dB** $H_m$ = 34.0dB $H_s$ = 2.0dB
**M= 25 dB** $M_m$ = 27.7dB $M_s$ = 2.2dB
**L= 19 dB** $L_m$ = 21.5dB $L_s$ = 2.5dB

**SNR 28dB** EN 352-1:2002

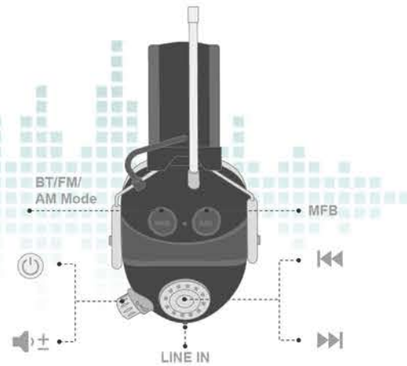
ANSI S3. 19-1974 Noise Reduction Rate **NRR 22dB**

AS/NZS 1270:2002 **SLC(80) = 26.3dB CLASS 5**



CE ANSI AS/NZS certified products

## EM-9005




### Key Features & Benefits

**1.Hearing Protection**
SNR 26 dB noise reduction effectively safeguards hearing during cleaning, mowing, woodworking, shooting, and construction work.

**2.Bluetooth 5.0 Connectivity**
Stable wireless pairing with smartphones, MP3 players, tablets, and laptops for seamless music, podcasts, and audiobook streaming.

**3.AM/FM Radio**
Sensitive antenna delivers clear reception with auto-search/manual tuning and unlimited preset channel memory for quick access.

**4.Ergonomic Comfort**
Adjustable wide headband and soft padding ensure a secure, all-day comfortable fit for all head sizes.

**5.User-Friendly Operation**
Large, easy-to-press buttons allow glove-friendly control without removing the earmuff.

**6.Reliable Power**
Powered by 3 AAA batteries for easy replacement and uninterrupted use in remote work settings.

**7.3.5mm Aux Input**
Wired audio backup ensures continuous music playback even when batteries are depleted.

**8.Hands-Free Calling**
Built-in audio assistance enables convenient call handling without handling your phone directly.

| Frequency [Hz] | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---|---|---|---|---|---|---|---|---|
| Sound attenuation Mf [dB] | 15.4 | 11.9 | 15.3 | 24.0 | 33.0 | 35.3 | 41.1 | 38.0 |
| Standard deviation Sf [dB] | 3.5 | 1.5 | 2.1 | 3.3 | 3.5 | 3.4 | 4.1 | 3.6 |
| APV Mf-Sf [dB] | 11.9 | 10.4 | 13.2 | 20.6 | 29.5 | 31.9 | 37.0 | 34.3 |

| SNR= 26dB | H=33dB | M=23dB | L= 16dB |
|---|---|---|---|
| SNRm=28.3dB | Hm=35.7dB | Mm=25.7dB | Lm=17.8dB |
| SNRs=2.1dB | Hs=2.6dB | Ms=2.2dB | Ls=1.8dB |

EN 352-1:2020 **SNR:26dB**

| | | |
|---|---|---|
| ANSI S3.19-1974 Attenuation data | AS/NZ S1270:2002 | EN 352-6 |
| **NRR:20dB** CSA Class B | **SLC(80): 24.7dB** | EN 352-8 |
| | **Class 4** | |

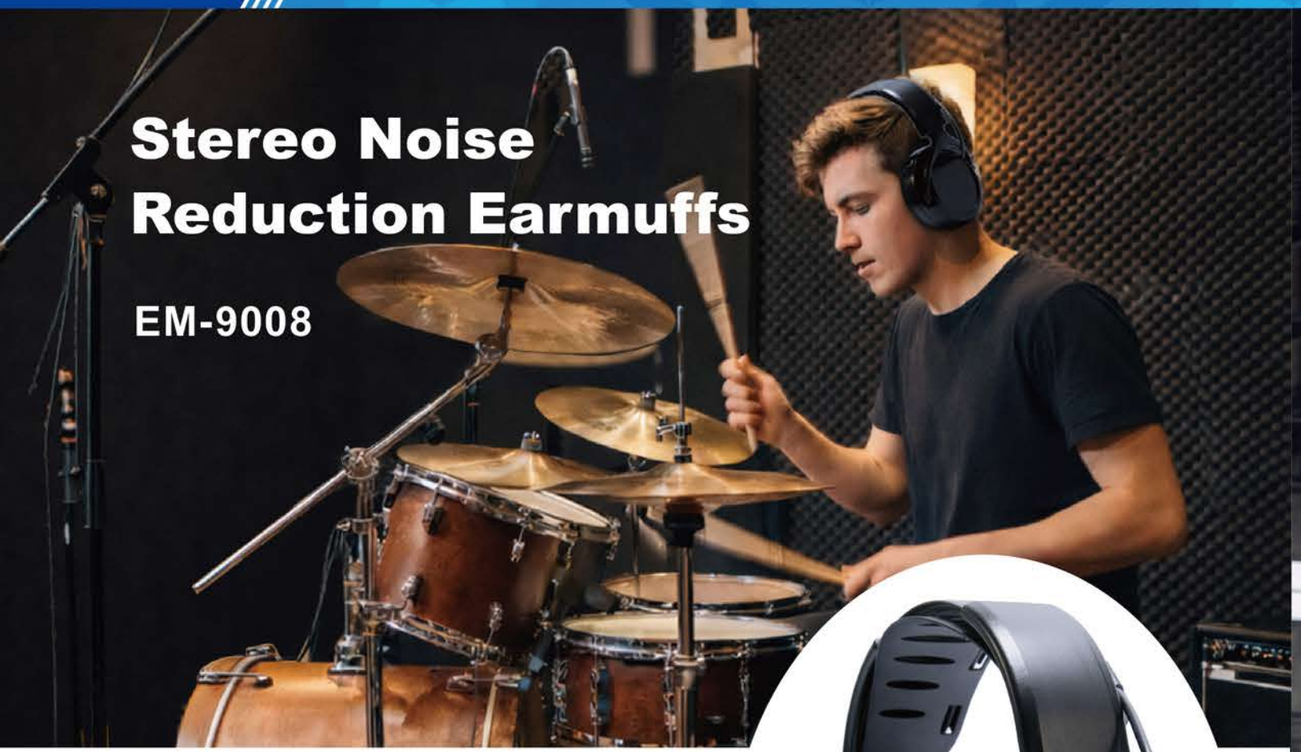
## GEL EAR PADS

Material : PU + GEL


**9201**

**9202**

**9203**



# Stereo Noise Reduction Earmuffs

EM-9008

## EM-9008

### Features and Benefits:

Equipped with a built-in 3.5mm AUX audio input and included connection cord enabling direct compatibility with MP3 players, smartphones, and other wired audic devices for uninterrupted audio playback.

### Headphone Functionality








CERTIFICATE

Occupational Health and Safety Management Systems Certificate

Certificate Number: 00221S20291R0M

CQM hereby certifies that

Guangdong J&Y Industrial Co., Ltd.

United Social Credit Code:91440101MA5CW8035L
Domicile/No:285, Juhuashi Rd, Huashan Town, Huadu District, Guangzhou, China
Certification Add:No.285, Juhuashi Rd, Huashan Town, Huadu District, Guangzhou, China(510880)

has implemented and maintains a Occupational Health and Safety Management System which fulfils the requirements of the following standards

GB/T 45001-2020/ISO 45001:2018

*Occupational health and safety management systems -- Requirements with guidance for use*

This certificate is valid to the following product(s)/service:

Design, production of protective products (earplugs, earmuff, safety glasses, medical use goggles, non-sterile disposable medical masks, protective masks) and relevant management activities

Issued on: 2021-01-22
Effective date: 2021-01-22
Validity date: 2024-01-22
Registration Number: CQM-44-2020-0107-0003

The validity of the certificate can be checked on www.cnca.gov.cn, Certificate Confirmation and CQM website

JiXiaoDong

CQM is a partner of: I Net

GB/T 45001

CNAS 中国认可 管理体系 MANAGEMENT SYSTEM CNAS C003-M

CHINA QUALITY MARK CERTIFICATION GROUP

Address: No.33, Zongguang Road, Haidian District, Beijing, 100048, P.R. China
http://www.cqm.com.cn

ISO Certificate

SATRA

MODULE D CERTIFICATE

Issued To

Guangdong J & Y Industrial Co., Ltd
No.285 Juhuashi Rd, Huashan Town, Huadu District Guangzhou 510880

Has been found to conform to the requirements of Annex VIII (Module D) of Regulation 2016/425 on Personal Protective Equipment, as amended to apply in GB – Conformity to type based on quality assurance of the production process, for the manufacture and distribution of a range of hearing protection products – earmuffs and ear plugs

| Standards | Module B Certificates* |
|---|---|
| EN 352-1:2020 | AB0321/19134-XX/E00-00 |
| EN 352-2:2020 | AB0321/19139-XX/E00-00 |
| EN 352-3:2020 | AB0321/19149-XX/E00-00 |
| | AB0321/19151-XX/E00-00 |
| | AB0321/19152-XX/E00-00 |
| | AB0321/26887-XX/E00-00 |

* Where 'XX' denotes the Module B certificate issue number

This certificate is only valid if supported by a module D audit report issued by SATRA that is less than 12 months old

Date Issued 30th May 2025 — Valid Until 29th May 2026
Date first issued 30th May 2025 — SATRA Reference PRC2023689

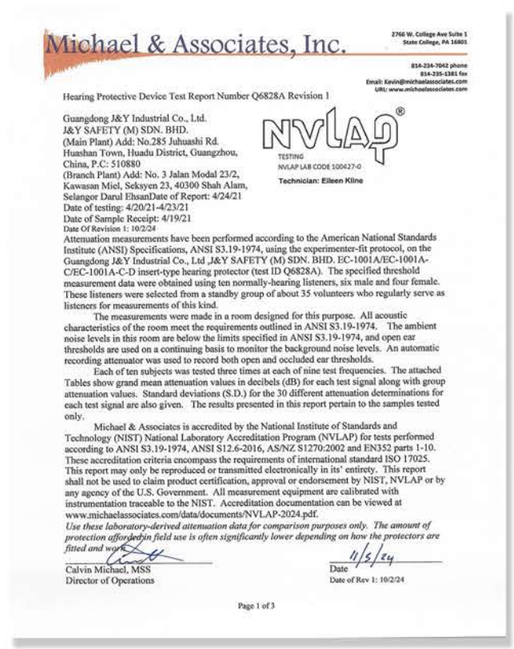
Signed on behalf of SATRA Technology Centre Ltd – Approved Body Number: 0321

UKAS 5170

*The issuance of this certificate is subject to the company maintaining its manufacturing and quality system to the required standard which will be monitored by: SATRA Technology Centre Limited. Wyndham Way, Telford Way, Kettering, Northamptonshire. NN16 8SD. United Kingdom - Tel: 0044 1536 410000 Web www.satra.com*

Page 1 of 2

SATRA Certificate



Michael & Associates, Inc.

2766 W. College Ave Suite 1
State College, PA 16801
814-234-7042 phone
814-235-1381 fax
Email: Kevin@michaelassociates.com
URL: www.michaelassociates.com

Hearing Protective Device Test Report Number Q6828A Revision 1

Guangdong J&Y Industrial Co., Ltd.
J&Y SAFETY (M) SDN. BHD.
(Main Plant) Add: No.285 Juhuashi Rd.
Huashan Town, Huadu District, Guangzhou,
China, P.C: 510880
(Branch Plant) Add: No. 3 Jalan Modal 23/2,
Kawasan Miel, Seksyen 23, 40300 Shah Alam,
Selangor Darul EhsanDate of Report: 4/24/21
Date of testing: 4/20/21-4/23/21
Date of Sample Receipt: 4/19/21
Date Of Revision 1: 10/2/24

NVLAP TESTING NVLAP LAB CODE 100427-0

Technician: Eileen Kline

Attenuation measurements have been performed according to the American National Standards Institute (ANSI) Specifications, ANSI S3.19-1974, using the experimenter-fit protocol, on the Guangdong J&Y Industrial Co., Ltd ,J&Y SAFETY (M) SDN. BHD. EC-1001A/EC-1001A-C/EC-1001A-C-D insert-type hearing protector (test ID Q6828A). The specified threshold measurement data were obtained using ten normally-hearing listeners, six male and four female. These listeners were selected from a standby group of about 35 volunteers who regularly serve as listeners for measurements of this kind.

The measurements were made in a room designed for this purpose. All acoustic characteristics of the room meet the requirements outlined in ANSI S3.19-1974. The ambient noise levels in this room are below the limits specified in ANSI S3.19-1974, and open ear thresholds are used on a continuing basis to monitor the background noise levels. An automatic recording attenuator was used to record both open and occluded ear thresholds.

Each of ten subjects was tested three times at each of nine test frequencies. The attached Tables show grand mean attenuation values in decibels (dB) for each test signal along with group attenuation values. Standard deviations (S.D.) for the 30 different attenuation determinations for each test signal are also given. The results presented in this report pertain to the samples tested only.

Michael & Associates is accredited by the National Institute of Standards and Technology (NIST) National Laboratory Accreditation Program (NVLAP) for tests performed according to ANSI S3.19-1974, ANSI S12.6-2016, AS/NZ S1270:2002 and EN352 parts 1-10. These accreditation criteria encompass the requirements of international standard ISO 17025. This report may only be reproduced or transmitted electronically in its' entirety. This report shall not be used to claim product certification, approval or endorsement by NIST, NVLAP or by any agency of the U.S. Government. All measurement equipment are calibrated with instrumentation traceable to the NIST. Accreditation documentation can be viewed at www.michaelassociates.com/data/documents/NVLAP-2024.pdf.

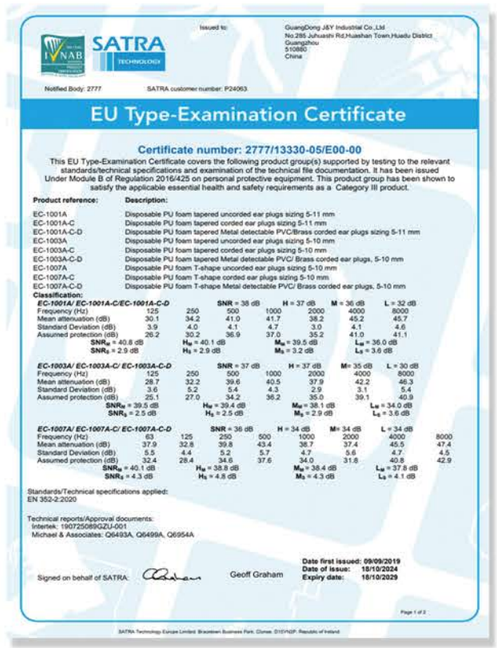
*Use these laboratory-derived attenuation data for comparison purposes only. The amount of protection afforded in field use is often significantly lower depending on how the protectors are fitted and worn.*

Calvin Michael, MSS
Director of Operations

Date 11/5/24
Date of Rev 1: 10/2/24

Page 1 of 3

Earplug ANSI Certificate



Issued to: GuangDong J&Y Industrial Co.,Ltd
No.285 Juhuashi Rd;Huashan Town,Huadu District
Guangzhou
510880
China

Notified Body: 2777 — SATRA customer number: P24063

EU Type-Examination Certificate

Certificate number: 2777/13330-05/E00-00

This EU Type-Examination Certificate covers the following product group(s) supported by testing to the relevant standards/technical specifications and examination of the technical file documentation. It has been issued Under Module B of Regulation 2016/425 on personal protective equipment. This product group has been shown to satisfy the applicable essential health and safety requirements as a Category III product.

| Product reference: | Description: |
|---|---|
| EC-1001A | Disposable PU foam tapered uncorded ear plugs sizing 5-11 mm |
| EC-1001A-C | Disposable PU foam tapered corded ear plugs sizing 5-11 mm |
| EC-1001A-C-D | Disposable PU foam tapered Metal detectable PVC/Brass corded ear plugs sizing 5-11 mm |
| EC-1003A | Disposable PU foam tapered uncorded ear plugs sizing 5-10 mm |
| EC-1003A-C | Disposable PU foam tapered corded ear plugs sizing 5-10 mm |
| EC-1003A-C-D | Disposable PU foam tapered Metal detectable PVC/ Brass corded ear plugs, 5-10 mm |
| EC-1007A | Disposable PU foam T-shape uncorded ear plugs sizing 5-10 mm |
| EC-1007A-C | Disposable PU foam T-shape corded ear plugs sizing 5-10 mm |
| EC-1007A-C-D | Disposable PU foam T-shape Metal detectable PVC/ Brass corded ear plugs, 5-10 mm |

**Classification:**

| *EC-1001A/ EC-1001A-C/EC-1001A-C-D* | | | | | | |
|---|---|---|---|---|---|---|
| | SNR = 38 dB | | H = 37 dB | M = 36 dB | L = 32 dB | |
| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| Mean attenuation (dB) | 30.1 | 34.2 | 41.0 | 41.7 | 38.2 | 45.2 | 45.7 |
| Standard Deviation (dB) | 3.9 | 4.0 | 4.1 | 4.7 | 3.0 | 4.1 | 4.6 |
| Assumed protection (dB) | 26.2 | 30.2 | 36.9 | 37.0 | 35.2 | 41.0 | 41.1 |
| $SNR_H$ = 40.8 dB | | $H_M$ = 40.1 dB | | $M_M$ = 39.5 dB | | $L_M$ = 36.0 dB | |
| $SNR_L$ = 2.9 dB | | $H_L$ = 2.9 dB | | $M_L$ = 3.2 dB | | $L_L$ = 3.6 dB | |

| *EC-1003A/ EC-1003A-C/ EC-1003A-C-D* | | | | | | |
|---|---|---|---|---|---|---|
| | SNR = 37 dB | | H = 37 dB | M= 35 dB | L = 30 dB | |
| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| Mean attenuation (dB) | 28.7 | 32.2 | 39.6 | 40.5 | 37.9 | 42.2 | 46.3 |
| Standard Deviation (dB) | 3.6 | 5.2 | 5.4 | 4.3 | 2.9 | 3.1 | 5.4 |
| Assumed protection (dB) | 25.1 | 27.0 | 34.2 | 36.2 | 35.0 | 39.1 | 40.9 |
| $SNR_H$ = 39.5 dB | | $H_M$ = 39.4 dB | | $M_M$ = 38.1 dB | | $L_M$ = 34.0 dB | |
| $SNR_L$ = 2.5 dB | | $H_L$ = 2.5 dB | | $M_L$ = 2.9 dB | | $L_L$ = 3.6 dB | |

| *EC-1007A/ EC-1007A-C/ EC-1007A-C-D* | | | | | | | |
|---|---|---|---|---|---|---|---|
| | SNR = 36 dB | | H = 34 dB | M= 34 dB | L = 34 dB | | |
| Frequency (Hz) | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| Mean attenuation (dB) | 37.9 | 32.8 | 39.8 | 43.4 | 38.7 | 37.4 | 45.5 | 47.4 |
| Standard Deviation (dB) | 5.5 | 4.4 | 5.2 | 5.7 | 4.7 | 5.6 | 4.7 | 4.5 |
| Assumed protection (dB) | 32.4 | 28.4 | 34.6 | 37.6 | 34.0 | 31.8 | 40.8 | 42.9 |
| $SNR_H$ = 40.1 dB | | | $H_M$ = 38.8 dB | | $M_M$ = 38.4 dB | | $L_M$ = 37.8 dB | |
| $SNR_L$ = 4.3 dB | | | $H_L$ = 4.8 dB | | $M_L$ = 4.3 dB | | $L_L$ = 4.1 dB | |

Standards/Technical specifications applied:
EN 352-2:2020

Technical reports/Approval documents:
Intertek: 190725089GZU-001
Michael & Associates: Q6493A, Q6499A, Q6954A

Signed on behalf of SATRA: Geoff Graham

Date first issued: 09/09/2019
Date of issue: 18/10/2024
Expiry date: 18/10/2029

Page 1 of 2

SATRA Technology Europe Limited Bracetown Business Park, Clonee, D15YN2P, Republic of Ireland

Earplug CE Certificate

SATRA

MODULE D CERTIFICATE

Issued To

Guangdong J & Y Industrial Co., Ltd
No.285 Juhuashi Rd, Huashan Town, Huadu District Guangzhou 510880

Has been found to conform to the requirements of Annex VIII (Module D) of the PPE Regulation (EU) 2016/425 – Conformity to type based on quality assurance of the production process, for the manufacture and distribution of a range of hearing protection products – earmuffs and ear plugs.

| Standards | Module B Certificates* | |
|---|---|---|
| EN 352-1:2020 | 2777/13057-XX/E00-00 | 2777/24186-XX/E00-00 |
| EN 352-2:2020 | 2777/13060-XX/E00-00 | 2777/26441-XX/E00-00 |
| EN 352-3:2020 | 2777/13061-XX/E00-00 | 2777/26527-XX/E00-00 |
| EN 352-4:2020 | 2777/13062-XX/E00-00 | 2777/26702-XX/E00-00 |
| EN 352-6:2020 | 2777/13063-XX/E00-00 | 2777/26750-XX/E00-00 |
| EN 352-8:2020 | 2777/13064-XX/E00-00 | 2777/26751-XX/E00-00 |
| | 2777/13075-XX/E00-00 | 2777/26884-XX/E00-00 |
| | 2777/13076-XX/E00-00 | 2777/26915-XX/E00-00 |
| | 2777/13226-XX/E00-00 | 2777/26994-XX/E00-00 |
| | 2777/13228-XX/E00-00 | CE-PC-221124-243-01-9A |
| | 2777/13229-XX/E00-00 | |
| | 2777/13330-XX/E00-00 | |
| | 2777/13331-XX/E00-00 | |
| | 2777/13332-XX/E00-00 | |
| | 2777/13333-XX/E00-00 | |
| | 2777/13334-XX/E00-00 | |
| | 2777/13335-XX/E00-00 | |
| | 2777/13336-XX/E00-00 | |
| | 2777/13339-XX/E00-00 | |
| | 2777/14738-XX/E00-00 | |
| | 2777/17558-XX/E00-00 | |
| | 2777/20186-XX/E00-00 | |
| | 2777/20199-XX/E00-00 | |
| | 2777/20477-XX/E00-00 | |

* Where 'XX' denotes the Module B certificate issue number

This certificate is only valid if supported by a module D audit report issued by SATRA that is less than 12 months old.

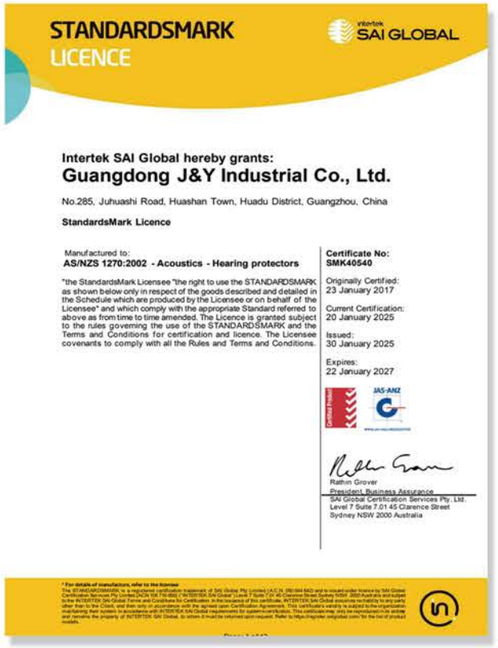
Date of first issue 30th May 2025 — Valid Until 29th May 2026
Date Issued 15th September 2025 — SATRA Reference STE2023668 Revision 1 – STE2029412

Signed on behalf of SATRA Technology Europe Ltd – Notified Body Number: 2777

*The issuance of this certificate is subject to the company maintaining its manufacturing and quality system to the required standard which will be monitored by: SATRA Technology Europe Limited. Bracetown Business Park Clonee Dublin 15 D15 YN2P Ireland - Tel: +353 (0) 1 437 2484 Web: www.satra.com*

Page 1 of 2

SATRA Certificate



STANDARDSMARK LICENCE

intertek SAI GLOBAL

Intertek SAI Global hereby grants:

Guangdong J&Y Industrial Co., Ltd.

No.285, Juhuashi Road, Huashan Town, Huadu District, Guangzhou, China

StandardsMark Licence

Manufactured to:
AS/NZS 1270:2002 - Acoustics - Hearing protectors

Certificate No:
SMK40540

Originally Certified:
23 January 2017

Current Certification:
20 January 2025

Issued:
30 January 2025

Expires:
22 January 2027

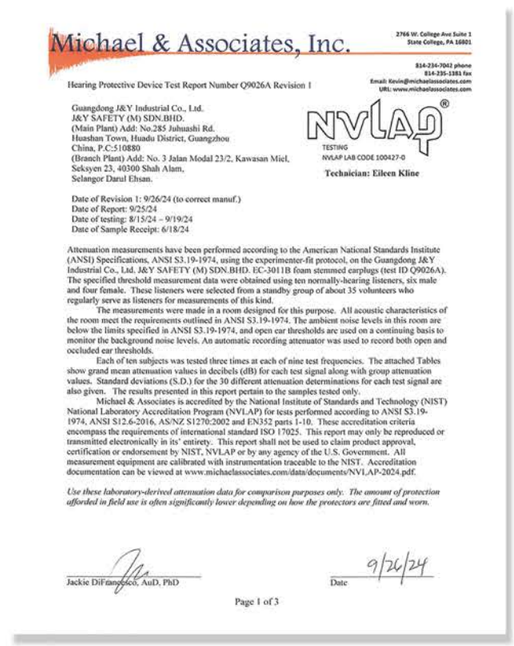
"the StandardsMark Licensee "the right to use the STANDARDSMARK as shown below only in respect of the goods described and detailed in the Schedule which are produced by the Licensee or on behalf of the Licensee" and which comply with the appropriate Standard referred to above as from time to time amended. The Licence is granted subject to the rules governing the use of the STANDARDSMARK and the Terms and Conditions for certification and licence. The Licensee covenants to comply with all the Rules and Terms and Conditions.

Certified Product — JAS-ANZ

Rathin Grover
President Business Assurance
SAI Global Certification Services Pty. Ltd.
Level 7 Suite 7.01 45 Clarence Street
Sydney NSW 2000 Australia

* For details of manufacturers, refer to the licensee

AS/NZS Certificate



Michael & Associates, Inc.

2766 W. College Ave Suite 1
State College, PA 16801
814-234-7042 phone
814-235-1381 fax
Email: Kevin@michaelassociates.com
URL: www.michaelassociates.com

Hearing Protective Device Test Report Number Q9026A Revision 1

Guangdong J&Y Industrial Co., Ltd.
J&Y SAFETY (M) SDN.BHD.
(Main Plant) Add: No.285 Juhuashi Rd.
Huashan Town, Huadu District, Guangzhou
China, P.C:510880
(Branch Plant) Add: No. 3 Jalan Modal 23/2, Kawasan Miel, Seksyen 23, 40300 Shah Alam,
Selangor Darul Ehsan.

NVLAP TESTING NVLAP LAB CODE 100427-0

Technician: Eileen Kline

Date of Revision 1: 9/26/24 (to correct manuf.)
Date of Report: 9/25/24
Date of testing: 8/15/24 – 9/19/24
Date of Sample Receipt: 6/18/24

Attenuation measurements have been performed according to the American National Standards Institute (ANSI) Specifications, ANSI S3.19-1974, using the experimenter-fit protocol, on the Guangdong J&Y Industrial Co., Ltd. J&Y SAFETY (M) SDN.BHD. EC-3011B foam stemmed earplugs (test ID Q9026A). The specified threshold measurement data were obtained using ten normally-hearing listeners, six male and four female. These listeners were selected from a standby group of about 35 volunteers who regularly serve as listeners for measurements of this kind.

The measurements were made in a room designed for this purpose. All acoustic characteristics of the room meet the requirements outlined in ANSI S3.19-1974. The ambient noise levels in this room are below the limits specified in ANSI S3.19-1974, and open ear thresholds are used on a continuing basis to monitor the background noise levels. An automatic recording attenuator was used to record both open and occluded ear thresholds.

Each of ten subjects was tested three times at each of nine test frequencies. The attached Tables show grand mean attenuation values in decibels (dB) for each test signal along with group attenuation values. Standard deviations (S.D.) for the 30 different attenuation determinations for each test signal are also given. The results presented in this report pertain to the samples tested only.

Michael & Associates is accredited by the National Institute of Standards and Technology (NIST) National Laboratory Accreditation Program (NVLAP) for tests performed according to ANSI S3.19-1974, ANSI S12.6-2016, AS/NZ S1270:2002 and EN352 parts 1-10. These accreditation criteria encompass the requirements of international standard ISO 17025. This report may only be reproduced or transmitted electronically in its' entirety. This report shall not be used to claim product approval, certification or endorsement by NIST, NVLAP or by any agency of the U.S. Government. All measurement equipment are calibrated with instrumentation traceable to the NIST. Accreditation documentation can be viewed at www.michaelassociates.com/data/documents/NVLAP-2024.pdf.

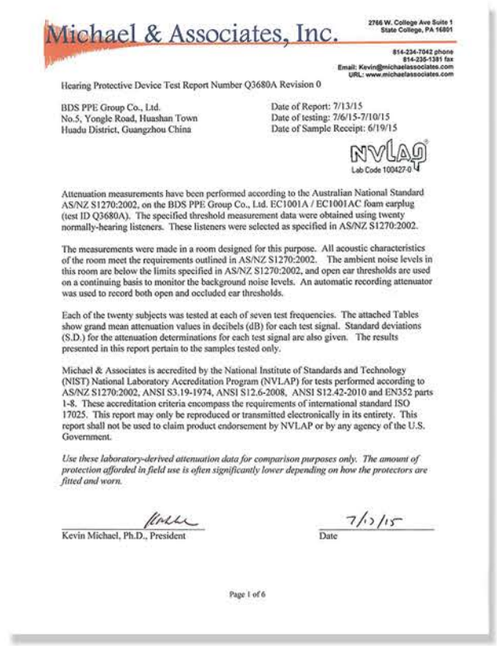
*Use these laboratory-derived attenuation data for comparison purposes only. The amount of protection afforded in field use is often significantly lower depending on how the protectors are fitted and worn.*

Jackie DiFrancisco, AuD, PhD

Date 9/26/24

Page 1 of 3

Earplug ANSI Certificate



Michael & Associates, Inc.

2766 W. College Ave Suite 1
State College, PA 16801
814-234-7042 phone
814-235-1381 fax
Email: Kevin@michaelassociates.com
URL: www.michaelassociates.com

Hearing Protective Device Test Report Number Q3680A Revision 0

BDS PPE Group Co., Ltd.
No.5, Yongle Road, Huashan Town
Huadu District, Guangzhou China

Date of Report: 7/13/15
Date of testing: 7/6/15-7/10/15
Date of Sample Receipt: 6/19/15

NVLAP Lab Code 100427-0

Attenuation measurements have been performed according to the Australian National Standard AS/NZ S1270:2002, on the BDS PPE Group Co., Ltd. EC1001A / EC1001AC foam earplug (test ID Q3680A). The specified threshold measurement data were obtained using twenty normally-hearing listeners. These listeners were selected as specified in AS/NZ S1270:2002.

The measurements were made in a room designed for this purpose. All acoustic characteristics of the room meet the requirements outlined in AS/NZ S1270:2002. The ambient noise levels in this room are below the limits specified in AS/NZ S1270:2002, and open ear thresholds are used on a continuing basis to monitor the background noise levels. An automatic recording attenuator was used to record both open and occluded ear thresholds.

Each of the twenty subjects was tested at each of seven test frequencies. The attached Tables show grand mean attenuation values in decibels (dB) for each test signal. Standard deviations (S.D.) for the attenuation determinations for each test signal are also given. The results presented in this report pertain to the samples tested only.

Michael & Associates is accredited by the National Institute of Standards and Technology (NIST) National Laboratory Accreditation Program (NVLAP) for tests performed according to AS/NZ S1270:2002, ANSI S3.19-1974, ANSI S12.6-2008, ANSI S12.42-2010 and EN352 parts 1-8. These accreditation criteria encompass the requirements of international standard ISO 17025. This report may only be reproduced or transmitted electronically in its entirety. This report shall not be used to claim product endorsement by NVLAP or by any agency of the U.S. Government.

*Use these laboratory-derived attenuation data for comparison purposes only. The amount of protection afforded in field use is often significantly lower depending on how the protectors are fitted and worn.*

Kevin Michael, Ph.D., President

Date 7/13/15

Page 1 of 6

Earplug AS/NZS Certificate

## Michael & Associates, Inc.

2766 W. College Ave Suite 1
State College, PA 16801
814-234-7042 phone
814-235-1381 fax
Email: Kevin@michaelassociates.com
URL: www.michaelassociates.com

Hearing Protective Device Test Report Number Q8983A Revision 0

Guangdong J&Y Industrial Co., Ltd.
J&Y SAFETY (M) SDN.BHD.
(Main Plant) Add: No.285 Juhuashi Rd.
Huashan Town, Huadu District, Guangzhou
China, P.C:510880
(Branch Plant) Add: No. 3 Jalan Modal 23/2,
Kawasan Miel, Seksyen 23, 40300 Shah Alam,
Selangor Darul Ehsan.

NVLAP TESTING
NVLAP LAB CODE 100427-0

**Technician: Eileen Kline**

Date of Report: 8/10/24
Date of testing: 7/18/24 – 8/8/24
Date of Sample Receipt: 6/18/24

Attenuation measurements have been performed according to the European Standards EN352-1:2020 on the Guangdong J&Y Industrial Co., Ltd. EM-7003-1 earmuffs (test ID Q8983A). The specified threshold measurement data were obtained using sixteen normally-hearing listeners. These listeners were selected as specified in EN352-1:2020.

The measurements were made in a room designed for this purpose. All acoustic characteristics of the room meet the requirements outlined in EN352-1:2020. The ambient noise levels in this room are below the limits specified in EN352-1:2020, and open ear thresholds are used on a continuing basis to monitor the background noise levels. An automatic recording attenuator was used to record both open and occluded ear thresholds.

Each of the sixteen subjects was tested at each of seven test frequencies. The attached Tables show mean and standard deviation attenuation values in decibels (dB) for each test signal. The results presented in this report pertain to the samples tested only.

Michael & Associates is accredited by the National Institute of Standards and Technology (NIST) National Laboratory Accreditation Program (NVLAP) for tests performed according to AS/NZ S1270:2002, ANSI S3.19-1974, ANSI S12.6-2016, ANSI S12.42-2010 and EN352 parts 1-10. These accreditation criteria encompass the requirements of international standard ISO 17025. This report may only be reproduced or transmitted electronically in its entirety. This report shall not be used to claim product certification, approval or endorsement by NVLAP or by any agency of the U.S. Government. Accreditation documentation can be viewed at www.michaelassociates.com/data/documents/NVLAP-2024.pdf.

*Use these laboratory-derived attenuation data for comparison purposes only. The amount of protection afforded in field use is often significantly lower depending on how the protectors are fitted and worn.*

Jackie DiFrancesco, AuD, PhD — Date: 8/10/24



Earmuff CE Certificate

Issued to: GuangDong J&Y Industrial Co.,Ltd
No.285 Juhuashi Rd,Huashan Town,Huadu District
Guangzhou
510880
China

Notified Body: 2777 — SATRA customer number: P24063

## EU Type-Examination Certificate

**Certificate number: 2777/26527-01/E00-00**

This EU Type-Examination Certificate covers the following product group(s) supported by testing to the relevant standards/technical specifications and examination of the technical file documentation. It has been issued Under Module B of Regulation 2016/425 on personal protective equipment. This product group has been shown to satisfy the applicable essential health and safety requirements as a Category III product.

| Product reference: | Description: | Weight: | Size: |
|---|---|---|---|
| EM-7003 | Over-the-head earmuff featuring Black ABS earcups with two layers of acoustic foam liner and foam-filled Black PVC covered cushions. The headband is made from a combination of Black TPE, PP and Steel materials. | 334g | S,M,L |
| EM-7003-1 | | 338g | S,M,L |
| EM-7005 | Over-the-head earmuff featuring Green ABS earcups with a foam liner and foam-filled Black PVC covered cushions. The headband is made from a combination of Black TPE, PP and Steel materials. | 217g | S,M,L |
| EM-7007 | Over-the-head earmuff featuring Black ABS earcups with a foam liner and foam-filled Black PVC covered cushions. The headband is made from a combination of Black TPE, PP and Steel materials. | 309g | S,M,L |
| EM-7008 | Over-the-head earmuff featuring Blue ABS earcups with a foam liner and foam-filled Black PVC covered cushions. The headband is made from a combination of Black TPE, PP and Steel materials. | 208g | S,M,L |

**Classification:**

**EM-7003**
SNR= 34.1dB | $H_M$= 36.2dB | $H_H$= 2.8dB | **H= 33dB** | Mean attenuation (dB) | 17.4 19.4 24.1 32.1 33.6 35.4 38.5 37.6
$SNR_L$= 2.4dB | $M_M$= 32.0dB | $M_H$= 2.2dB | **M= 30dB** | Standard deviation (dB) | 3.2 3.2 3.0 2.9 2.7 2.9 3.6 3.8
**SNR= 32dB** | $L_M$= 25.9dB | $L_H$= 2.5dB | **L= 23dB** | Assumed protection (dB) | 14.3 16.2 21.1 29.2 30.9 32.4 34.7 33.8

**EM-7003-1**
SNR= 38.0dB | $H_M$= 40.0dB | $H_H$= 1.5dB | **H= 39dB** | Mean attenuation (dB) | 20.0 21.6 29.4 37.4 37.9 38.4 43.6 43.8
$SNR_L$= 1.3dB | $M_M$= 36.0dB | $M_H$= 1.5dB | **M= 35dB** | Standard deviation (dB) | 2.7 2.6 2.6 3.0 2.9 2.1 2.1 3.4
**SNR= 37dB** | $L_M$= 29.1dB | $L_H$= 1.9dB | **L= 27dB** | Assumed protection (dB) | 17.3 19.0 25.8 34.4 35.0 36.3 41.6 40.4

**EM-7005**
SNR= 29.7dB | $H_M$= 35.3dB | $H_H$= 2.2dB | **H= 33dB** | Mean attenuation (dB) | 16.7 14.1 17.6 25.3 33.1 35.0 38.2 34.9
$SNR_L$= 1.8dB | $M_M$= 27.3dB | $M_H$= 1.6dB | **M= 25dB** | Standard deviation (dB) | 3.5 2.3 2.5 2.6 2.5 2.6 2.9 3.3
**SNR= 28dB** | $L_M$= 19.6dB | $L_H$= 1.8dB | **L= 18dB** | Assumed protection (dB) | 13.2 11.8 15.1 22.7 30.6 32.3 35.3 31.7

**EM-7007**
SNR= 35.4dB | $H_M$= 38.0dB | $H_H$= 2.0dB | **H= 36dB** | Mean attenuation (dB) | 16.9 19.4 25.4 33.0 38.5 39.0 37.0 37.8
$SNR_L$= 1.5dB | $M_M$= 33.9dB | $M_H$= 1.7dB | **M= 32dB** | Standard deviation (dB) | 3.2 2.9 2.5 2.7 2.8 2.6 3.0 3.4
**SNR= 34dB** | $L_M$= 26.5dB | $L_H$= 2.0dB | **L= 25dB** | Assumed protection (dB) | 13.6 16.5 22.9 30.3 35.7 36.3 33.9 34.3

**EM-7008**
SNR= 36.6dB | $H_M$= 36.5dB | $H_H$= 1.7dB | **H= 35dB** | Mean attenuation (dB) | 14.8 15.2 17.5 27.1 35.6 34.8 41.7 36.7
$SNR_L$= 1.7dB | $M_M$= 26.1dB | $M_H$= 1.9dB | **M= 25dB** | Standard deviation (dB) | 2.7 2.0 2.5 2.8 2.5 1.9 2.7 3.0
**SNR= 29dB** | $L_M$= 20.4dB | $L_H$= 2.0dB | **L= 18dB** | Assumed protection (dB) | 12.1 13.2 15.0 24.2 33.2 32.9 39.0 33.7

Standards/Technical specifications applied:
EN 352-1:2020

Technical reports/Approval documents:
Michael & Associates: Q8933A Revision 1, Q8934A Revision 1, Q8981A Revision 0, Q8983A Revision 0, Q8984A Revision 0.
SGS: GZHL2303006521SD
CTI: A224075157410101, A224075157410102, A224075157410103.

Signed on behalf of SATRA: Geoff Graham

**Date first issued: 17/12/2024**
**Date of issue: 17/12/2024**
**Expiry date: 17/12/2029**





Earmuff CE Certificate

## Michael & Associates, Inc.

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Hearing Protective Device Test Report Number Q9151A Revision 1

Guangdong J&Y Industrial Co., Ltd.
J&Y SAFETY (M) SDN.BHD.
(Main Plant) Add: No.285 Juhuashi Rd.
Huashan Town, Huadu District, Guangzhou
China, P.C:510880
(Branch Plant) Add: No. 3 Jalan Modal 23/2, Kawasan
Miel, Seksyen 23, 40300 Shah Alam,
Selangor Darul Ehsan.

NVLAP TESTING
NVLAP LAB CODE 100427-0

**Technician: Eileen Kline**

Date of Revision 1: 11/7/24 (to correct manuf. name pg2)
Date of Report: 10/9/24
Date of testing: 9/5/24 – 10/3/24
Date of Sample Receipt: 9/3/24

Attenuation measurements have been performed according to the European Standards EN352-1:2020 on the Guangdong J&Y Industrial Co., Ltd. J&Y SAFETY (M) SDN.BHD. EM-9001BP earmuffs (test ID Q9151A). The specified threshold measurement data were obtained using sixteen normally-hearing listeners. These listeners were selected as specified in EN352-1:2020.

The measurements were made in a room designed for this purpose. All acoustic characteristics of the room meet the requirements outlined in EN352-1:2020. The ambient noise levels in this room are below the limits specified in EN352-1:2020, and open ear thresholds are used on a continuing basis to monitor the background noise levels. An automatic recording attenuator was used to record both open and occluded ear thresholds.

Each of the sixteen subjects was tested at each of seven test frequencies. The attached Tables show mean and standard deviation attenuation values in decibels (dB) for each test signal. The results presented in this report pertain to the samples tested only.

Michael & Associates is accredited by the National Institute of Standards and Technology (NIST) National Laboratory Accreditation Program (NVLAP) for tests performed according to AS/NZ S1270:2002, ANSI S3.19-1974, ANSI S12.6-2016, ANSI S12.42-2010 and EN352 parts 1-10. These accreditation criteria encompass the requirements of international standard ISO 17025. This report may only be reproduced or transmitted electronically in its entirety. This report shall not be used to claim product certification, approval or endorsement by NVLAP or by any agency of the U.S. Government. Accreditation documentation can be viewed at www.michaelassociates.com/data/documents/NVLAP-2024.pdf.

*Use these laboratory-derived attenuation data for comparison purposes only. The amount of protection afforded in field use is often significantly lower depending on how the protectors are fitted and worn.*

Jackie DiFrancesco, AuD, PhD — Date: 11/7/24 (Rev1 11/7/24)



Earmuff CE Certificate

Issued to: GuangDong J&Y Industrial Co.,Ltd
No.285 Juhuashi Rd,Huashan Town,Huadu District
Guangzhou
510880
China

Notified Body: 2777 — SATRA customer number: P24063

## EU Type-Examination Certificate

**Certificate number: 2777/13076-06/E00-00**

This EU Type-Examination Certificate covers the following product group(s) supported by testing to the relevant standards/technical specifications and examination of the technical file documentation. It has been issued Under Module B of Regulation 2016/425 on personal protective equipment. This product group has been shown to satisfy the applicable essential health and safety requirements as a Category III product.

| Product reference: | Description: |
|---|---|
| EM-9001M/ EM-9001B | Electronic ear defenders with Bluetooth consisting of a headband with 2 ABS cups with PU foam cushions. |
| EM-9001C | Electronic ear defenders without Bluetooth consisting of a headband with two ABS cups with PU foam cushions. |
| EM-9001B-E | Electronic ear defenders with Bluetooth consisting of two ABS plastic ear cups to be used in combination with a MSA Vgard safety helmet. Each cup houses a PU foam cushion. |

**Classification:**

***EM-9001M (EN 352-1)*** — **SNR = 29 dB | H = 31 dB | M = 26 dB | L = 20 dB**
Frequency ($H_z$) 125 250 500 1000 2000 4000 8000 — $SNR_M$ = 30.6 dB — $SNR_H$ = 1.8 dB
Mean attenuation (dB) 17.9 20.0 24.9 33.1 31.5 39.0 40.9 — $H_M$ = 33.7 dB — $H_H$ = 2.4 dB
Standard deviation (dB) 2.7 2.4 2.8 3.4 3.0 3.5 3.1 — $M_M$ = 28.2 dB — $M_H$ = 2.0 dB
Assumed protection(dB) 15.2 17.6 22.1 29.8 28.5 35.5 37.8 — $L_M$ = 22.6 dB — $L_H$ = 2.2 dB

***EM-9001C (EN 352-1)*** — **SNR = 28 dB | H = 32 dB | M = 25 dB | L = 19 dB**
Frequency ($H_z$) 125 250 500 1000 2000 4000 8000 — $SNR_M$ = 30.1 dB — $SNR_H$ = 1.9 dB
Mean attenuation (dB) 16.3 19.0 24.5 33.1 32.3 36.8 39.9 — $H_M$ = 34.0 dB — $H_H$ = 2.5 dB
Standard deviation (dB) 2.7 2.9 3.0 2.5 2.6 2.7 3.0 — $M_M$ = 27.7 dB — $M_H$ = 2.2 dB
Assumed protection(dB) 13.6 16.1 21.5 30.5 29.7 34.2 36.9 — $L_M$ = 21.5 dB — $L_H$ = 2.5 dB

***EM-9001B (EN 352-1)*** — **SNR = 29 dB | H = 32 dB | M = 27 dB | L = 19 dB**
Frequency ($H_z$) 125 250 500 1000 2000 4000 8000 — $SNR_M$ = 30.7 dB — $SNR_H$ = 1.9 dB
Mean attenuation (dB) 15.2 19.3 27.7 34.7 32.8 35.5 39.0 — $H_M$ = 34.2 dB — $H_H$ = 2.7 dB
Standard deviation (dB) 3.2 3.0 2.9 2.2 3.3 3.7 3.9 — $M_M$ = 28.7 dB — $M_H$ = 2.1 dB
Assumed protection (dB) 12.4 16.1 24.8 32.5 29.6 31.7 35.1 — $L_M$ = 21.3 dB — $L_H$ = 2.4 dB

**EM-9001B-E (EN 352-3)** — **SNR = 26 dB | H = 30 dB | M = 23 dB | L = 17 dB**
Frequency ($H_z$) 125 250 500 1000 2000 4000 8000 — $SNR_M$ = 27.9 dB — $SNR_H$ = 2.4 dB
Mean attenuation (dB) 14.4 16.1 22.4 30.9 31.1 34.9 35.5 — $H_M$ = 32.3 dB — $H_H$ = 2.1 dB
Standard deviation (dB) 2.7 2.8 2.9 3.0 2.8 3.5 3.4 — $M_M$ = 25.4 dB — $M_H$ = 2.5 dB
Assumed protection (dB) 11.7 13.3 19.4 27.9 28.4 31.4 32.1 — $L_M$ = 19.1 dB — $L_H$ = 2.5 dB

**EN 352-4 Criterion levels (EM-9001M)** — $H$ = 84.7 dBA — $M$ = 83.6 dBA — $L$ = 82.7 dBA
**EN 352-6 Criterion input level (EM-9001M)** — -3 dBV (710.4 mV)
**EN 352-6 Criterion input level (EM-9001B-E)** — -9.3 dBV (342.8 mV)
**EN 352-6 Criterion output levels (EM-9001B)** — Maximum output level did not reach 82.0 dBA
**EN 352-8 Criterion output levels (EM-9001M)** — Mean + SD: 73.2 + 0.7 = 73.8 dBA
**EN 352-8 Criterion output levels (EM-9001B)** — Mean + SD = 71.6 dBA
**EN 352-8 Criterion output levels (EM-9001B-E)** — Mean + SD: 80.6 + 1.1 = 81.7 dBA

Standards/Technical specifications applied:
EN 352-1:2020. EN 352-3:2020: EN 352-4:2020: EN 352-6:2020; EN 352-8:2020

Technical reports/Approval documents:
Intertek 19072508GZU-001
Michael & Associates, Inc.: Q5435A Revision 1, Q5436ARevision 1, Q5952A Revision 1, Q5962A, Q6642A, Q6883A, Q6884A, Q7256A, Q7257A, Q7258A, Q8107A, Q8108A

Signed on behalf of SATRA: Geoff Graham

**Date first issued: 25/07/2019**
**Date of issue: 24/09/2024**
**Expiry date: 23/05/2028**





Earmuff CE Certificate

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Hearing Protective Device Test Report Number Q8979A Revision 1

Guangdong J&Y Industrial Co., Ltd.
J&Y SAFETY (M) SDN.BHD.
(Main Plant) Add: No.285 Juhuashi Rd.
Huashan Town, Huadu District, Guangzhou
China, P.C:510880
(Branch Plant) Add: No. 3 Jalan Modal 23/2, Kawasan Miel,
Seksyen 23, 40300 Shah Alam,
Selangor Darul Ehsan.

NVLAP TESTING
NVLAP LAB CODE 100427-0

**Technician: Eileen Kline**

Date of Revision 1: 8/10/24 (to correct cover page)
Date of Report: 7/18/24
Date of testing: 6/20/24 – 7/8/24
Date of Sample Receipt: 6/4/24

Attenuation measurements have been performed according to the American National Standards Institute (ANSI) Specifications, ANSI S3.19-1974, using the experimenter-fit protocol, on the Guangdong J&Y Industrial Co., Ltd. EM-5010 earmuffs (test ID Q8979A). The specified threshold measurement data were obtained using ten normally-hearing listeners, six male and four female. These listeners were selected from a standby group of about 35 volunteers who regularly serve as listeners for measurements of this kind.

The measurements were made in a room designed for this purpose. All acoustic characteristics of the room meet the requirements outlined in ANSI S3.19-1974. The ambient noise levels in this room are below the limits specified in ANSI S3.19-1974, and open ear thresholds are used on a continuing basis to monitor the background noise levels. An automatic recording attenuator was used to record both open and occluded ear thresholds.

Each of ten subjects was tested three times at each of nine test frequencies. The attached Tables show grand mean attenuation values in decibels (dB) for each test signal along with group attenuation values. Standard deviations (S.D.) for the 30 different attenuation determinations for each test signal are also given. The results presented in this report pertain to the samples tested only.

Michael & Associates is accredited by the National Institute of Standards and Technology (NIST) National Laboratory Accreditation Program (NVLAP) for tests performed according to ANSI S3.19-1974, ANSI S12.6-2016, AS/NZ S1270:2002 and EN352 parts 1-10. These accreditation criteria encompass the requirements of international standard ISO 17025. This report may only be reproduced or transmitted electronically in its entirety. This report shall not be used to claim product certification, approval or endorsement by NVLAP or by any agency of the U.S. Government. All measurement equipment are calibrated with instrumentation traceable to the NIST. Accreditation documentation can be viewed at www.michaelassociates.com/data/documents/NVLAP-2024.pdf.

*Use these laboratory-derived attenuation data for comparison purposes only. The amount of protection afforded in field use is often significantly lower depending on how the protectors are fitted and worn.*

Jackie DiFrancesco, AuD, PhD — Date: 8/10/24



Earmuff ANSI Certificate

Issued to: GuangDong J&Y Industrial Co.,Ltd
No.285 Juhuashi Rd,Huashan Town,Huadu District
Guangzhou
510880
China

Notified Body: 2777 — SATRA customer number: P24063

## EU Type-Examination Certificate

**Certificate number: 2777/13060-04/E00-00**

This EU Type-Examination Certificate covers the following product group(s) supported by testing to the relevant standards/technical specifications and examination of the technical file documentation. It has been issued Under Module B of Regulation 2016/425 on personal protective equipment. This product group has been shown to satisfy the applicable essential health and safety requirements as a Category III product.

| Product reference: | Description: |
|---|---|
| EM-5003D | Helmet mounted ear defenders consisting of an adapter for attachment to the helmet and an ABS plastic ear cup. Each cup houses PU foam and cushion. These ear-muffs should be fitted to and used only with the industrial safety helmet MSA V-gard. SNR = 27 dB |
| EM-5003 | Ear-muff, over-the-head type, economic style, plastic cups with foam liner and foam filled cushion, plastic headband, Size: S, M, L SNR = 29 dB |
| EM-5010 | Ear-muff, over-the-head type, economic style, plastic cups with foam liner and foam filled cushion, plastic headband, Size: S, M, L SNR = 34 dB |
| EM-5003E | Helmet mounted earmuff consisting of an adapter for attachment to the helmet and an ABS plastic ear cup. Each cup houses PU foam and cushion. These ear-muffs should be fitted to and used only with the industrial safety helmet MSA V-gard. SNR = 29 dB |

**Classification:**

**EM-5003D (EN 352-3)** — **SNR = 27 dB | H = 30 dB | M = 25 dB | L = 17 dB**
Frequency ($H_z$) 125 250 500 1000 2000 4000 8000 — $SNR_M$ = 27.9 dB — $SNR_H$ = 1.2 dB
Mean attenuation (dB) 13.7 15.8 25.0 33.9 35.7 28.5 30.6 — $H_M$ = 31.5 dB — $H_L$ = 1.6 dB
Standard deviation (dB) 2.5 2.3 2.6 2.5 3.2 2.1 2.6 — $M_M$ = 26.1 dB — $M_L$ = 1.4 dB
Assumed protection (dB) 11.2 13.5 22.4 31.4 32.5 26.5 27.8 — $L_M$ = 18.7 dB — $L_L$ = 1.7 dB

**EM-5003 (EN 352-1)** — **SNR = 29 dB | H = 36 dB | M = 26 dB | L = 18 dB**
Frequency ($H_z$) 125 250 500 1000 2000 4000 8000 — $SNR_M$ = 31.7 dB — $SNR_H$ = 2.3 dB
Mean attenuation (dB) 15.7 17.7 26.8 38.5 38.4 39.0 41.4 — $H_M$ = 38.3 dB — $H_L$ = 2.4 dB
Standard Deviation (dB) 3.2 2.6 2.9 3.0 2.9 4.1 3.4 — $M_M$ = 29.5 dB — $M_L$ = 2.3 dB
Assumed protection (dB) 12.5 15.1 23.9 35.5 35.5 34.8 38.0 — $L_M$ = 20.6 dB — $L_L$ = 2.5 dB

**EM-5010 (EN 352-1)** — **SNR = 34 dB | H = 37 dB | M = 32 dB | L = 24 dB**
Frequency ($H_z$) 63 125 250 500 1000 2000 4000 8000 — $SNR_M$ = 36.2 dB — $SNR_H$ = 2.3 dB
Mean attenuation (dB) 17.0 19.3 25.0 33.1 39.6 39.2 41.9 40.0 — $H_M$ = 40.2 dB — $H_L$ = 2.8 dB
Standard Deviation (dB) 2.9 2.8 2.7 2.8 3.3 3.1 2.6 4.1 — $M_M$ = 34.2 dB — $M_L$ = 2.3 dB
Assumed protection (dB) 14.1 16.5 22.3 30.3 36.3 36.0 39.3 35.9 — $L_M$ = 26.3 dB — $L_L$ = 2.3 dB

**EM-5003E (EN 352-3)** — **SNR = 29 dB | H = 32 dB | M = 26 dB | L = 20 dB**
Frequency ($H_z$) 63 125 250 500 1000 2000 4000 8000 — $SNR_M$ = 30.2 dB — $SNR_H$ = 1.5 dB
Mean attenuation (dB) 15.0 14.8 21.4 28.6 29.3 34.7 39.8 39.9 — $H_M$ = 33.6 dB — $H_L$ = 1.9 dB
Standard deviation (dB) 3.1 2.5 3.1 2.9 2.2 2.5 2.9 3.9 — $M_M$ = 27.2 dB — $M_L$ = 1.6 dB
Assumed protection (dB) 12.0 12.3 18.3 25.7 24.1 32.2 36.9 36.0 — $L_M$ = 22.1 dB — $L_L$ = 2.1 dB

Standards/Technical specifications applied:
EN 352-3:2020; EN 352-1:2020

Technical reports/Approval documents:
Michael & Associates: Q4065A Revision 1, Q8980A, Q8985A.
CTI: A2240770163103, A2240770163101, A2240770163102

Signed on behalf of SATRA: Geoff Graham

**Date first issued: 24/07/2019**
**Date of issue: 17/12/2024**
**Expiry date: 19/01/2028**





Earmuff CE Certificate

## Michael & Associates, Inc.

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Hearing Protective Device Test Report Number Q9119A Revision 1

Guangdong J&Y Industrial Co., Ltd.
J&Y SAFETY (M) SDN.BHD.
(Main Plant) Add: No.285 Juhuashi Rd.
Huashan Town, Huadu District, Guangzhou
China, P.C:510880
(Branch Plant) Add: No. 3 Jalan Modal 23/2,
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Selangor Darul Ehsan.

NVLAP TESTING
NVLAP LAB CODE 100427-0

**Technician: Eileen Kline**

Date of Revision 1: 10/8/24 (to correct model pg1)
Date of Report: 10/7/24
Date of testing: 8/29/24 – 9/17/24
Date of Sample Receipt: 8/26/24

Attenuation measurements have been performed according to the European Standards EN352-1:2020 on the Guangdong J&Y Industrial Co., Ltd. J&Y SAFETY (M) SDN.BHD. EM-7001L earmuffs (test ID Q9119A). The specified threshold measurement data were obtained using sixteen normally-hearing listeners. These listeners were selected as specified in EN352-1:2020.

The measurements were made in a room designed for this purpose. All acoustic characteristics of the room meet the requirements outlined in EN352-1:2020. The ambient noise levels in this room are below the limits specified in EN352-1:2020, and open ear thresholds are used on a continuing basis to monitor the background noise levels. An automatic recording attenuator was used to record both open and occluded ear thresholds.

Each of the sixteen subjects was tested at each of seven test frequencies. The attached Tables show mean and standard deviation attenuation values in decibels (dB) for each test signal. The results presented in this report pertain to the samples tested only.

Michael & Associates is accredited by the National Institute of Standards and Technology (NIST) National Laboratory Accreditation Program (NVLAP) for tests performed according to AS/NZ S1270:2002, ANSI S3.19-1974, ANSI S12.6-2016, ANSI S12.42-2010 and EN352 parts 1-10. These accreditation criteria encompass the requirements of international standard ISO 17025. This report may only be reproduced or transmitted electronically in its entirety. This report shall not be used to claim product certification, approval or endorsement by NVLAP or by any agency of the U.S. Government. Accreditation documentation can be viewed at www.michaelassociates.com/data/documents/NVLAP-2024.pdf.

*Use these laboratory-derived attenuation data for comparison purposes only. The amount of protection afforded in field use is often significantly lower depending on how the protectors are fitted and worn.*

Jackie DiFrancesco, AuD, PhD — Date: 10/8/24 (Rev1 10/8/24)



Earmuff CE Certificate

Issued to: GuangDong J&Y Industrial Co.,Ltd
No.285 Juhuashi Rd,Huashan Town,Huadu District
Guangzhou
510880
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Notified Body: 2777 — SATRA customer number: P24063

## EU Type-Examination Certificate

**Certificate number: 2777/24186-03/E00-00**

This EU Type-Examination Certificate covers the following product group(s) supported by testing to the relevant standards/technical specifications and examination of the technical file documentation. It has been issued Under Module B of Regulation 2016/425 on personal protective equipment. This product group has been shown to satisfy the applicable essential health and safety requirements as a Category III product.

| Product reference: | Description: | Weight: | Size: |
|---|---|---|---|
| FM-2E | Cap-mounted earmuffs with ABS cups with foam liner and foam filled, PU covered cushions, which should be attached to MSA V-Gard safety cap. | 307g | S,M,L |
| FM-3E | Cap-mounted earmuffs with ABS cups with foam liner and foam filled, PU covered cushions, which should be attached to MSA V-Gard safety cap. | 323g | S,M,L |
| EM-5006 | Over-the-head headband earmuff with ABS cups with foam filled PU cushions. | 249g | S,M,L |
| EM-7001L-D | Cap-mounted earmuffs designed to be attached to MSA V-Gard safety helmet. It features ABS cups, a foam liner, and foam-filled PU covered cushions. The earmuffs are held to the helmet by a steel wire cup supporting arm. | 358g | S,M,L |

**Classification:**

**EN 352-3:2020** **FM-2E** & MSA V-Gard — **Frequency ($H_z$)** 63 125 250 500 1000 2000 4000 8000
$SNR_M$=32.1 dB | $H_M$=33.1 dB | $H_H$=1.9 dB | **H=31 dB** | Mean attenuation (dB) 21.7 16.0 23.3 31.1 34.0 31.3 36.6 34.7
$SNR_H$=1.7 dB | $M_M$=30.7 dB | $M_H$=1.9 dB | **M=29 dB** | Standard deviation (dB) 3.6 2.5 3.4 2.5 2.2 2.9 3.2
**SNR=30 dB** | $L_M$=24.0 dB | $L_H$=2.8 dB | **L=21 dB** | Assumed protection (dB) 18.1 13.5 19.8 28.6 31.8 29.1 33.8 31.5

**EN 352-3:2020** **FM-3E** & MSA V-Gard — **Frequency ($H_z$)** 63 125 250 500 1000 2000 4000 8000
$SNR_M$=34.0 dB | $H_M$=34.3 dB | $H_H$=2.3 dB | **H=32 dB** | Mean attenuation (dB) 24.6 18.6 26.5 33.5 35.9 33.0 38.7 35.2
$SNR_H$=2.1 dB | $M_M$=33.0 dB | $M_H$=2.4 dB | **M=31 dB** | Standard deviation (dB) 3.6 2.6 2.8 3.4 3.9 3.0 4.1 3.8
**SNR=32 dB** | $L_M$=26.7 dB | $L_H$=2.5 dB | **L=24 dB** | Assumed protection (dB) 21.0 16.0 23.7 30.2 32.0 29.9 34.6 31.5

**EN 352-1:2020** **EM-5006** Over-the-Head — **Frequency ($H_z$)** 63 125 250 500 1000 2000 4000 8000
$SNR_M$=34.2 dB | $H_M$=35.2 dB | $H_H$=2.8 dB | **H=32 dB** | Mean attenuation (dB) 23.1 18.0 26.6 34.7 41.0 38.6 32.9 34.3
$SNR_H$=1.9 dB | $M_M$=34.0 dB | $M_H$=1.7 dB | **M=32 dB** | Standard deviation (dB) 3.3 3.1 2.3 3.5 2.9 3.1 3.6 3.7
**SNR=32 dB** | $L_M$=26.3 dB | $L_H$=2.5 dB | **L=24 dB** | Assumed protection (dB) 19.7 14.9 24.3 31.3 38.1 35.5 29.3 30.6

**EN 352-3:2020** **EM-7001L-D** & MSA V-Gard — **Frequency ($H_z$)** 63 125 250 500 1000 2000 4000 8000
$SNR_M$=36.4dB | $H_M$=38.0dB | $H_H$=1.4dB | **H=35dB** | Mean attenuation (dB) 19.4 21.6 26.3 38.8 38.0 37.2 43.0 37.6
$SNR_H$=2.4dB | $M_M$=35.0dB | $M_H$=2.3dB | **M=33dB** | Standard deviation (dB) 3.0 3.0 3.1 4.8 3.0 4.5 4.4 4.8
**SNR=34dB** | $L_M$=28.2dB | $L_H$=2.6dB | **L=26dB** | Assumed protection (dB) 16.4 18.6 23.1 34.0 35.0 32.6 38.5 32.8

Standards/Technical specifications applied;
EN 352-1:2020; EN 352-3:2020

Technical reports/Approval documents:
Intertek: 19072508GZU-001
Michael & Associates: Q6944A, Q6965A, Q7743A, Q8186A Revision 1
SGS: GZHL2303006521SD, GZHL2404015676HM

Signed on behalf of SATRA: Geoff Graham

**Date first issued: 14/05/2023**
**Date of issue: 11/10/2024**
**Expiry date: 21/05/2029**





Earmuff CE Certificate

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URL: www.michaelassociates.com

Hearing Protective Device Test Report Number Q9115A Revision 0

Guangdong J&Y Industrial Co., Ltd.
J&Y SAFETY (M) SDN.BHD.
(Main Plant) Add: No.285 Juhuashi Rd.
Huashan Town, Huadu District, Guangzhou
China, P.C:510880
(Branch Plant) Add: No. 3 Jalan Modal 23/2,
Kawasan Miel, Seksyen 23, 40300 Shah Alam,
Selangor Darul Ehsan.

NVLAP TESTING NVLAP LAB CODE 100427-0

Technician: Eileen Kline

Date of Report: 10/7/24
Date of testing: 8/29/24 – 9/17/24
Date of Sample Receipt: 8/26/24

Attenuation measurements have been performed according to the European Standards EN352-1:2020 on the Guangdong J&Y Industrial Co., Ltd. J&Y SAFETY (M) SDN.BHD. EM-5005F earmuffs (test ID Q9115A). The specified threshold measurement data were obtained using sixteen normally-hearing listeners. These listeners were selected as specified in EN352-1:2020.

The measurements were made in a room designed for this purpose. All acoustic characteristics of the room meet the requirements outlined in EN352-1:2020. The ambient noise levels in this room are below the limits specified in EN352-1:2020, and open ear thresholds are used on a continuing basis to monitor the background noise levels. An automatic recording attenuator was used to record both open and occluded ear thresholds.

Each of the sixteen subjects was tested at each of seven test frequencies. The attached Tables show mean and standard deviation attenuation values in decibels (dB) for each test signal. The results presented in this report pertain to the samples tested only.

Michael & Associates is accredited by the National Institute of Standards and Technology (NIST) National Laboratory Accreditation Program (NVLAP) for tests performed according to AS/NZ S1270:2002, ANSI S3.19-1974, ANSI S12.6-2016, ANSI S12.42-2010 and EN352 parts 1-10. These accreditation criteria encompass the requirements of international standard ISO 17025. This report may only be reproduced or transmitted electronically in its entirety. This report shall not be used to claim product certification, approval or endorsement by NVLAP or by any agency of the U.S. Government. Accreditation documentation can be viewed at www.michaelassociates.com/data/documents/NVLAP-2024.pdf.

*Use these laboratory-derived attenuation data for comparison purposes only. The amount of protection afforded in field use is often significantly lower depending on how the protectors are fitted and worn.*

Jackie DiFrancesco, AuD, PhD — Date 10/7/24



Earmuff CE Certificate

SATRA TECHNOLOGY

Notified Body: 2777 — SATRA customer number: P24063

Issued to: GuangDong J&Y Industrial Co.,Ltd
No.285 Juhuashi Rd,Huashan Town,Huadu District
Guangzhou
510880
China

## EU Type-Examination Certificate

**Certificate number: 2777/13332-04/E00-00**

This EU Type-Examination Certificate covers the following product group(s) supported by testing to the relevant standards/technical specifications and examination of the technical file documentation. It has been issued Under Module B of Regulation 2016/425 on personal protective equipment. This product group has been shown to satisfy the applicable essential health and safety requirements as a Category III product.

| Product reference: | Description: |
|---|---|
| EC-4101 | Banded silicon earplug, under-the-chin type, Silicon tip with PP band, nominal diameter 10/14mm, SNR = 30 dB |
| EC-4102 | Banded earplug, under-the-chin type, PU foam tip with PP band, nominal diameter 12/17mm, SNR = 29 dB |
| EC-4103 | Banded earplug, under-the-chin type, PU foam tip with PP band, nominal diameter 11/18mm, SNR = 27 dB |
| EC-4109 | Banded earplug (foldable), under-the-chin type, PU foam tip with PP band, nominal diameter 8/18mm, taper shape design, SNR = 28dB |

**Classification:**

***EC-4101***

| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | $SNR_W$ = 33.5 | $SNR_1$ = 3.8 |
|---|---|---|---|---|---|---|---|---|---|
| Mean attenuation (dB) | 31.8 | 28.0 | 28.6 | 29.8 | 34.3 | 41.1 | 45.2 | $H_W$ = 34.9 | $H_2$ = 3.7 |
| Standard Deviation (dB) | 5.9 | 5.0 | 4.1 | 4.3 | 4.2 | 4.4 | 4.3 | $M_W$ = 30.4 | $M_2$ = 3.9 |
| Assumed protection (dB) | 25.9 | 23.1 | 24.5 | 25.5 | 30.0 | 36.7 | 40.9 | $L_W$ = 29.0 | $L_2$ = 4.1 |
| | SNR = 30 dB | | H = 31 dB | | M = 26 dB | | L = 25 dB | | |

***EC-4102***

| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | $SNR_W$ = 31.2 | $SNR_1$ = 2.1 |
|---|---|---|---|---|---|---|---|---|---|
| Mean attenuation (dB) | 30.3 | 25.2 | 25.9 | 26.9 | 35.1 | 42.5 | 44.8 | $H_W$ = 34.0 | $H_2$ = 2.1 |
| Standard Deviation (dB) | 4.1 | 3.6 | 3.9 | 2.3 | 3.5 | 3.6 | 4.2 | $M_W$ = 27.7 | $M_2$ = 2.1 |
| Assumed protection (dB) | 26.1 | 21.6 | 22.0 | 24.6 | 31.6 | 38.9 | 40.6 | $L_W$ = 26.4 | $L_2$ = 2.7 |
| | SNR = 29 dB | | H = 32 dB | | M = 26 dB | | L = 24 dB | | |

***EC-4103***

| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | $SNR_W$ = 30.1 | $SNR_1$ = 2.9 |
|---|---|---|---|---|---|---|---|---|---|
| Mean attenuation (dB) | 26.7 | 23.8 | 24.3 | 26.4 | 34.1 | 41.9 | 44.3 | $H_W$ = 33.0 | $H_2$ = 3.1 |
| Standard Deviation (dB) | 4.1 | 3.8 | 4.0 | 3.8 | 4.6 | 4.4 | 4.3 | $M_W$ = 26.7 | $M_2$ = 3.1 |
| Assumed protection (dB) | 22.7 | 20.0 | 20.3 | 22.6 | 29.5 | 37.5 | 40.0 | $L_W$ = 24.9 | $L_2$ = 3.0 |
| | SNR = 27 dB | | H = 30 dB | | M = 24 dB | | L = 22 dB | | |

***EC-4109***

| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | $SNR_W$ = 29.7 | $SNR_1$ = 2.3 |
|---|---|---|---|---|---|---|---|---|---|
| Mean attenuation (dB) | 23.8 | 23.0 | 24.5 | 25.5 | 32.8 | 40.2 | 42.7 | $H_W$ = 32.1 | $H_2$ = 2.4 |
| Standard Deviation (dB) | 2.5 | 2.5 | 2.7 | 2.9 | 3.2 | 4.9 | 4.9 | $M_W$ = 26.4 | $M_2$ = 2.5 |
| Assumed protection (dB) | 21.3 | 20.5 | 21.9 | 22.6 | 29.6 | 35.2 | 37.8 | $L_W$ = 24.6 | $L_2$ = 2.2 |
| | SNR = 27 dB | | H = 30 dB | | M = 24 dB | | L = 22 dB | | |

Standards/Technical specifications applied:
EN 352-2:2020

Technical reports/Approval documents:
Intertek: 190725089GZU-001
Michael & Associates: Q4636A Revision 1, Q4689A Revision 1, Q4697A Revision 1, Q5102A Revision 1

Signed on behalf of SATRA: Geoff Graham

Date first issued: 09/09/2019
Date of issue: 18/10/2024
Expiry date: 21/12/2027





Earplug CE Certificate

证书号第4096425号

# 发明专利证书

发明名称：一种负离子PU材料耳塞

发明人：林太钦

专利号：ZL 2017 1 1298439.7

专利申请日：2017年12月08日

专利权人：广州金海纳防护用品有限公司

地址：510000 广东省广州市花都区花山镇永乐路5号（可作厂房使用）

授权公告日：2020年11月17日　　授权公告号：CN 107854214 B

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局长
申长雨

2020年11月17日



其他事项参见背面

证书号第6696907号

# 实用新型专利证书

实用新型名称：一种具有耳罩的安全帽

发明人：林太钦

专利号：ZL 2017 2 0015573.0

专利申请日：2017年01月06日

专利权人：广州金海纳防护用品有限公司

授权公告日：2017年12月08日

本实用新型经过本局依照中华人民共和国专利法进行初步审查，决定授予专利权，颁发本证书并在专利登记簿上予以登记。专利权自授权公告之日起生效。

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局长
申长雨

2017年12月08日





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