



Hearing safety tools for the most demanding work environments.

Every day, workers count on Bilsom products to block noise and manage sound in some of the world's most acoustically challenging environments. Bilsom products meet these demands through a combination of advanced technology, performance and comfort features that put people first.

Find It Fast

Need to compare products or find a specific feature? Our FastSpecs make it easy.

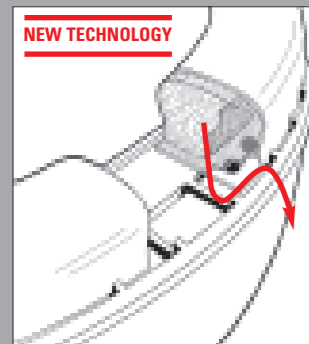
1. New Designs

2. Wearing Position

- Over-head**
Designed for traditional over-the-head wear.
- Multiple position**
Multiple options for wear: over-the-head, behind-the-neck or under-the-chin.
- Helmet-mounted**
Snap mounts for use on hard hats.
- Foldable**
Convenient folding headband for easy storage.
- Neckband**
Behind-the-head design for convenient use with other PPE.

3. Single Number Rating (SNR)
This rating system lets you compare the level of protection offered by various products.

L3HV SNR 34



AIR FLOW CONTROL™

Patented high performance technology Bilsom's patented Air Flow Control™ technology delivers optimal attenuation across all frequencies, without increasing earcup size or weight. As sound travels through the air in the earcup, a patented baseplate chamber and high-tech nonwoven layer manage the flow of air inside the earmuff to control how sound reaches the ear. The result is better, more consistent overall attenuation for almost all industrial noise environments. Air Flow Control is a standard feature on all Lightning, Thunder and Viking series earmuffs.



Noise Blocking Earmuffs

When you need to block the noise, Bilsom gives you the tools to do the job. From the maximum attenuation available in an earmuff to economical designs, we set the standard for noise blocking and hearing protection. Our Thunder®, Lightning®, Viking™, and Mach 1 earmuffs provide a choice of features and protection, ideal for many workers and environments.

T1 SNR 30

T1H SNR 29

T1F SNR 31

T2 SNR 33

T2H SNR 30

T3 SNR 36

NEW TECHNOLOGY

Thunder®

Top of the line protection and comfort
Now with patented Air Flow Control™

- Maximum protection from an earmuff
- Uniform headband pressure for all head sizes, providing better comfort for long-term wear
- Non-deforming outer headband withstands rough treatment in the toughest workplaces
- Inner-ventilated headband minimizes pressure on the head, breathes easier in warm/humid climates (T2 and T3 only)
- Quick-Click height adjustment
- Snap-in ear cushions make replacement quick and easy
- Dielectric construction suitable for all workplaces, especially electrical environments

Thunder® Headband Earmuffs

Thunder T1 Earmuff : **10 109 28**
Thunder T2 Earmuff : **10 109 29**
Thunder T3 Earmuff : **10 109 70**

Thunder® Helmet Earmuffs

- For use with wide variety of popular helmets
- Earcups snap-lock in place and swing back when not in use
- Extensive range of adapters available

Thunder T1H Helmet Earmuff : **10 125 30**
Thunder T1H Helmet Earmuff (with adapters 3712, 3711 & 3721) : **10 125 33**
Thunder T2H Helmet Earmuff : **10 125 31**
Thunder T2H Helmet Earmuff (with adapters 3712, 3711 & 3721) : **10 125 34**

Thunder® Folding Earmuff

- Convenient folding headband design for easy storage
- Quick-Click height adjustment for personalised fit
- Belt storage case available separately

Thunder T1F Folding Earmuff : **10 116 00**

Hygiene Kits

Hygiene kit for T1, T1H, T1F : **10 109 74**
Hygiene Kit for T2, T2H : **10 109 75**
Hygiene Kit for T3 : **10 109 76**

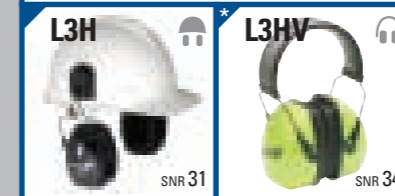


Noise Blocking Earmuffs

Leightning® NEW TECHNOLOGY

Maximum comfort and contemporary design
Now with patented Air Flow Control™

- Robust steel headband withstands demanding use
- Exclusive snap-in cushions make replacement fast and easy
- Exclusive padded foam headband delivers long wearing comfort
- Contemporary design improves wearer compliance
- Telescopic height adjustment remains fixed during use
- L0 Ultraslim earcups
 - Ultraslim, lightweight design rests comfortably on the head, delivers high degree of comfort
 - Ideally suited for situations where compact earmuffs and reliable noise-blocking protection is required
- Hi-Visibility series
 - Bright green earcups for high visibility and contrast on the job.
 - Exclusive reflective headband highly visible under light for increased visibility and safety, especially in low lighting
 - Ideal to wear at night, in low lighting and under inclement weather conditions



Leightning® Headband Earmuffs

Leightning L1 Earmuff: **10 109 22**
Leightning L2 Earmuff: **10 109 23**
Leightning L3 Earmuff: **10 109 24**

Hygiene Kits

Hygiene kit for:
L0N, L0F, L1, L1H, L1HHV, L1N: **10 119 98**
L2, L2FHV, L2N, L2F: **10 119 99**
L3, L3HV, L3H, L3N: **10 120 00**

Leightning Hi-Visibility L3HV Earmuff: **10 139 41** Leightning® Helmet Earmuffs

- For use with wide variety of popular helmets
 - Earcups snap-lock in place and swing-back when not in use
 - Extensive range of adapters available
- Leightning L1H Helmet Earmuff (adapters sold separately): **10 125 36**
Leightning L1H Helmet Earmuff (with adapters 3712, 3711 & 3721): **10 125 39**
Leightning L1HHV Hi-Visibility Helmet Earmuff (with adapters 3712, 3711 & 3721): **10 150 21**
Leightning L3H Helmet Earmuff (adapters sold separately): **10 125 38**
Leightning L3H Helmet Earmuff (with adapters 3712, 3711 & 3721): **10 125 41**

Leightning® Neckband Earmuffs

- Sleek, anatomic behind-the-head design
 - Use with facemasks, visors, helmets and other PPE
 - Includes elastic headband strap for better positioning
- Leightning L0N Neckband Earmuff: **10 134 60**
Leightning L1N Neckband Earmuff: **10 119 94**
Leightning L2N Neckband Earmuff: **10 119 95**
Leightning L3N Neckband Earmuff: **10 119 96**

Leightning® Folding Earmuffs

- Convenient folding headband design for easy storage
 - Belt storage case available separately
- Leightning L0F Folding Earmuff: **10 134 61**
Leightning L2F Folding Earmuff: **10 119 97**
Leightning L2FHV Hi-Visibility Folding Earmuff: **10 139 42**

Viking™ NEW TECHNOLOGY

Multiple-position headband
Now with patented Air Flow Control™

- Multiple-position headband allows wearer to select position over-the-head, behind-the-head, under-the-chin
- Alternative to cap-mounted earmuffs – wear with hard hats, face shields, respirators and other PPE
- Inner-ventilated headband minimizes pressure on the head, breathes easier in warm/humid climates
- Non-deforming outer headband withstands rough treatment in the toughest workplaces
- Snap-in ear cushions make replacement quick and easy
- Attached elastic headband strap for better positioning
- Dielectric construction suitable for all workplaces



Viking V1 : **10 109 25**
Viking V3 : **10 111 70**



Hygiene Kits

Hygiene Kit for V1 : **10 119 98**
Hygiene Kit for V3 : **10 120 00**



Mach™ 1

Economical protection for short-term use

- Economical design provides adequate protection at a low cost
- Extremely lightweight construction provides comfort for all-day wear
- Dielectric construction suitable for all workplaces

Mach 1 : **10 104 21**



Sound Management Earmuffs

Sometimes blocking sound isn't enough. You need to block noise and let information in. Our Sound Management earmuffs use patented electronic and non-electronic technologies that block noise while letting alarms, warning signals and co-workers' voice frequencies be heard more naturally.

C1  SNR 25

C1H  SNR 26

C1F  SNR 26

C2  SNR 30

C3  SNR 33

C3H  SNR 30

Clarity™

Advanced Sound Management Technology enhances on-the-job communication

- Uniform attenuation allows wearer to hear co-workers, instructions and other important sounds more naturally while blocking out harmful noise
- Does not isolate worker from environment, improves overall safety especially in sensitive environments
- Dielectric construction suitable for all workplaces, especially electrical environments
- Uniform headband pressure for all head sizes, providing better comfort for long-term wear
- Inner-ventilated headband minimizes pressure on the head, breathes easier in warm/humid climates
- Non-deforming outer headband withstands rough treatment in the toughest workplaces
- Quick-Click height adjustment remains fixed during wear
- Snap-in ear cushions make replacement quick and easy

Clarity™ Headband Earmuffs

Clarity C1 Earmuff : 10 111 42
 Clarity C2 Earmuff : 10 111 45
 Clarity C3 Earmuff : 10 111 46

Clarity™ Helmet Earmuffs

- For use with wide variety of popular helmets
- Earcups snap-lock in place and swing-back when not in use
- Extensive range of adapters available

Clarity C1H Helmet Earmuff
 (adapters sold separately): 10 112 42
 Clarity C1H Helmet Earmuff
 (with adapters 3711 & 3712): 10 112 62
 Clarity C3H Helmet Earmuff
 (adapters sold separately): 10 112 43
 Clarity C3H Helmet Earmuff
 (with adapters 3711 & 3712): 10 112 64

Clarity™ Folding Earmuff

- Convenient folding headband design for easy storage
 - Belt storage case available separately
 - Quick-Click height adjustment for personalized fit
- Clarity C1F Folding Earmuff : 10 111 43

Hygiene Kits

Hygiene kit for C1, C1H, C1F: 10 060 80
 Hygiene kit for C2, C3, C3H: 10 060 81

Forestry Kit  SNR 26

Impact™  SNR 28

Impact™ H  SNR 27

Clarity® Forestry Kit

Forestry helmet fully equipped with:

- Helmet Earmuff Clarity C1H
- Helmet yellow LG1100 Centurion in polypropylene
- Adapters for Centurion helmet (ref: 10 002 42)
- Wire mesh visor

Forestry Kit: 10 055 00
 Hygiene Kit: 10 060 80
 Wire mesh visor replacement: 10 002 53

Impact™

Electronic noise filtering + sound amplification

- Directional stereo microphones amplify and enhance sound for more natural hearing
- Ideal for hearing impaired workers
- Limits sound amplification to 82dB(A)
- 700 hour battery life, automatic shut off function
- New easy access battery compartment

Impact™ Headband Earmuff

Impact: 10 103 76

Impact™ Helmet Earmuff

Impact H: 10 106 32

Hygiene Kit

Hygiene Kit for Impact & Impact H: 10 080 00

Attenuation data



Attenuation according to EN 352/ISO 4869 - Media: Mean value in dB - SD: Standard deviation in dB - APV: Assumed protection in dB

Frequency in Hz		63	125	250	500	1000	2000	4000	8000	SNR	H	M	L
Max	Media	34.6	37.1	37.4	38.8	38.2	37.9	47.3	44.8	37	36	35	34
	SD	3.0	4.5	4.3	3.7	3.5	4.0	3.5	7.2				
	APV	31.6	32.6	33.1	35.1	34.7	33.9	43.8	37.6				
Max Lite	Media	-	35.5	36.7	39.0	37.4	33.8	41.9	43.3	34	32	32	31
	SD	-	6.3	7.1	6.6	6.1	3.7	3.8	4.7				
	APV	-	29.2	29.6	32.4	31.3	30.1	38.1	38.6				
Laser Lite	Media	33.4	34.1	35.5	37.6	34.9	35.7	42.5	44.1	35	34	32	31
	SD	4.6	4.7	4.6	4.1	5.0	2.8	2.9	4.2				
	APV	28.8	29.4	30.9	33.5	29.9	32.9	39.6	39.9				
Matrix Orange	Media	17.6	21.8	26.1	28.7	29.5	34.9	37.2	39.8	29	31	25	22
	SD	5.1	4.7	5.4	5.2	5.3	3.8	2.7	4.0				
	APV	12.5	17.1	20.7	23.5	24.2	31.1	34.5	35.8				
Matrix Green	Media	17.3	21.0	24.5	27.3	27.9	33.8	36.1	40.8	27	29	23	20
	SD	5.4	5.3	6.7	6.6	4.8	3.7	5.2	6.5				
	APV	11.9	15.7	17.8	20.7	23.1	30.1	30.9	34.3				
Matrix Blue	Media	11.9	14.8	17.4	22.9	25.5	30.3	36.7	37.5	23	26	20	15
	SD	3.2	4.5	4.8	6.2	4.4	5.0	5.1	6.4				
	APV	8.7	10.3	12.6	16.7	21.1	25.3	31.6	31.1				
MultiMax	Media	34.5	37.7	37.8	39.8	36.2	35.9	41.5	42.9	35	33	32	32
	SD	6.7	7.6	6.7	6.8	5.1	3.9	4.2	6.1				
	APV	27.8	30.1	31.1	33.0	31.1	32.0	37.3	36.8				
Bilsom 303/304	Media	28.4	37.3	37.9	39.1	36.0	34.6	42.5	46.4	33	32	29	29
	SD	6.4	9.0	9.2	9.7	7.9	4.6	4.9	4.7				
	APV	22.0	28.3	28.7	29.4	28.1	30.0	37.6	41.8				
Frequency in Hz		63	125	250	500	1000	2000	4000	8000	SNR	H	M	L
Quiet	Media	26.1	29.0	28.8	29.1	29.5	33.1	43.3	44.5	28	29	25	23
	SD	6.1	6.9	6.4	7.2	5.1	5.3	6.9	3.4				
	APV	20.0	22.1	22.4	21.9	24.4	27.8	36.4	41.1				
AirSoft	Media	31.0	29.8	28.6	30.5	32.5	33.6	35.4	39.1	30	29	27	25
	SD	4.6	5.0	5.6	5.5	4.3	4.2	7.2	4.6				
	APV	26.4	24.8	23.0	25.0	28.2	29.4	28.2	34.5				
Fusion	Media	24.6	28.3	28.6	27.9	29.4	31.0	40.0	40.9	28	29	25	24
	SD	6.0	5.1	5.6	5.0	5.6	3.7	5.6	5.5				
	APV	18.6	23.2	23.0	22.9	23.8	27.3	34.4	35.4				
SmartFit	Media	30.9	31.4	28.8	32.5	33.8	35.6	39.3	41.9	30	32	27	23
	SD	6.2	7.3	8.9	8.1	7.3	4.3	6.0	5.0				
	APV	24.7	24.1	19.9	24.4	26.5	31.3	33.3	36.9				
Bilsom 656 NST	Media	23.3	23.0	21.3	21.5	24.3	30.8	28.6	39.4	22	24	19	17
	SD	5.4	5.9	6.2	5.3	5.5	3.9	6.3	6.4				
	APV	17.9	17.1	15.1	16.2	18.8	26.9	22.3	33.0				
Frequency in Hz		63	125	250	500	1000	2000	4000	8000	SNR	H	M	L
Laser Trak	Media	33.4	34.1	35.5	37.6	34.9	35.7	42.5	44.1	35	34	32	31
	SD	4.6	4.7	4.6	4.1	5.0	2.8	2.9	4.2				
	APV	28.8	29.4	30.9	33.5	29.9	32.9	39.6	39.9				
SmartFit Detectable	Media	30.9	31.4	28.8	32.5	33.8	35.6	39.3	41.9	30	32	27	23
	SD	6.2	7.3	8.9	8.1	7.3	4.3	6.0	5.0				
	APV	24.7	24.1	19.9	24.4	26.5	31.3	33.3	36.9				
Fusion Detectable	Media	24.6	28.3	28.6	27.9	29.4	31.0	40.0	40.9	28	29	25	24
	SD	6.0	5.1	5.6	5.0	5.6	3.7	5.6	5.5				
	APV	18.6	23.2	23.0	22.9	23.8	27.3	34.4	35.4				
QB1HYG	Media	24.8	28.1	26.5	24.5	25.1	31.7	42.5	40.9	26	28	22	21
	SD	4.3	3.2	5.6	5.7	3.3	4.0	1.8	4.7				
	APV	20.5	24.9	20.9	18.8	21.8	27.7	40.7	36.2				
QB2HYG	Media	22.5	24.7	22.7	18.7	22.5	30.8	35.8	34.6	24	26	20	19
	SD	5.4	4.4	4.8	1.8	3.6	4.9	3.8	5.8				
	APV	17.1	20.3	17.9	16.9	18.9	25.9	32.0	28.8				
QB3HYG	Media	23.5	22.3	20.6	16.8	22.7	30.6	34.2	33.7	23	25	19	17
	SD	4.3	4.2	3.7	2.4	4.0	3.5	3.8	6.1				
	APV	19.2	18.1	16.9	14.4	18.7	27.1	32.4	27.6				
PerCap	Media	21.4	22.5	21.5	19.0	22.6	30.3	35.7	38.8	24	27	20	18
	SD	4.8	3.5	3.6	2.9	2.7	3.1	4.2	4.3				
	APV	16.6	19.0	17.9	16.1	19.9	27.2	31.5	34.5				



Attenuation according to EN 352/ISO 4869 - Media: Mean value in dB - SD: Standard deviation in dB - APV: Assumed protection in dB

Frequency in Hz		63	125	250	500	1000	2000	4000	8000	SNR	H	M	L
Thunder T1	Mean	16.4	18.3	23.3	26.6	32.9	33.8	36.0	37.9	30	32	28	21
	SD	5.4	4.3	2.7	2.3	2.3	2.9	2.3	3.2				
	APV	11.0	14.0	20.6	24.3	30.6	30.9	33.7	34.7				
Thunder T2	Mean	20.3	20.5	28.0	31.9	38.5	37.1	37.6	38.0	33	34	31	25
	SD	4.2	3.6	2.8	3.5	2.7	3.4	3.1	5.2				
	APV	16.1	16.9	25.2	28.4	35.8	33.7	34.5	32.8				
Thunder T3	Mean	21.5	23.6	30.8	34.6	40.3	38.3	43.1	40.3	36	37	34	26
	SD	3.6	5.3	4.5	3.0	2.2	3.4	2.2	3.4				
	APV	17.9	18.3	26.3	31.6	38.1	34.9	39.7	36.7				
Thunder T1F	Mean	17.6	19.9	25.3	28.6	34.3	35.7	37.4	37.8	31	33	28	22
	SD	4.9	4.7	4.7	4.7	3.1	2.9	3.4	3.8				
	APV	12.7	15.2	20.6	23.9	31.2	32.8	34.0	34.0				
Thunder T1H	Mean	15.9	18.7	22.5	23.4	32.4	34.4	35.5	37.9	29	32	26	20
	SD	2.7	3.8	3.9	2.5	2.2	2.3	2.3	4.7				
	APV	13.2	14.9	18.6	20.9	30.2	32.1	33.2	33.2				
Thunder T2H	Mean	16.9	20.1	24.9	25.4	34.0	33.9	36.2	38.1	30	32	28	23
	SD	2.9	3.3	2.8	2.4	2.3	2.9	3.2	4.6				
	APV	14.0	16.8	22.1	23.0	31.7	31.0	33.0	33.5				
Leightning L1	Mean	17.9	20.3	22.9	28.3	32.9	32.3	39.3	35.1	30	31	28	23
	SD	5.3	2.5	2.8	1.7	2.9	3.8	2.8	4.0				
	APV	12.6	17.8	20.1	26.6	30.0	28.5	36.5	31.1				
Leightning L2	Mean	20.0	20.1	24.5	29.3	34.4	32.4	35.9	35.6	31	31	29	23
	SD	4.5	4.0	2.9	3.2	2.6	3.0	2.6	3.2				
	APV	15.5	16.1	21.6	26.1	31.8	29.4	33.3	32.4				
Leightning L3	Mean	23.6	24.6	27.8	32.6	37.4	35.2	38.8	35.8	34	33	32	27
	SD	6.4	3.6	2.0	2.0	3.3	3.2	3.1	3.3				
	APV	17.2	21.0	25.8	30.6	34.1	32.0	35.7	32.5				
Leightning L3HV	Mean	23.6	24.6	27.8	32.6	37.4	35.2	38.8	35.8	34	33	32	27
	SD	6.4	3.6	2.0	2.0	3.3	3.2	3.1	3.3				
	APV	17.2	21.0	25.8	30.6	34.1	32.0	35.7	32.5				
Leightning L0N	Mean	-	10.7	17.2	19.9	22.0	26.6	35.6	39.9	22	24	19	14
	SD	-	4.3	4.1	1.8	3.5	4.4	3.1	3.0				
	APV	-	6.4	13.0	18.1	18.4	22.1	32.5	36.9				
Leightning L1N	Mean	18.3	17.9	21.9	27.9	32.7	32.1	35.4	35.8	29	31	27	21
	SD	5.5	3.5	3.2	3.0	2.9	2.9	3.5	3.8				
	APV	12.8	14.4	18.7	24.9	29.8	29.2	31.9	32.0				
Leightning L2N	Mean	18.3	18.0	24.3	29.8	35.4	34.9	35.3	34.5	31	31	29	22
	SD	3.9	2.9	2.9	1.8	2.8	4.4	3.0	4.4				
	APV	14.4	15.1	21.4	28.0	32.6	30.5	32.3	30.1				
Leightning L3N	Mean	21.0	21.6	27.8	32.1	36.5	32.4	38.3	37.4	32	31	31	26
	SD	3.5	3.2	2.8	2.3	3.0	3.6	4.1	5.0				
	APV	17.5	18.4	25.0	29.8	33.5	28.8	34.2	32.4				
Leightning L0F	Mean	-	13.2	19.7	21.7	25.0	29.1	35.1	40.0	25	27	21	17
	SD	-	3.0	3.7	2.8	3.5	2.5	2.3	2.6				
	APV	-	10.2	16.1	18								