

BrushGuard™ CoolGuard™

Elvex BrushGuard™/CoolGuard™

When more than one type of protection is required, the solution can end up being cumbersome. Elvex has combined hearing and face protection into one handy solution, which is easier to use, more lightweight and also less expensive than the use of separate hearing and face protection devices. The high performance muff provides 27 dB NRR. The nylon mesh visor model (HB-7000) is for outdoor applications, where ventilation is a requirement. This is a convenience shield, and it does not meet ANSI requirements. The polycarbonate shield version (HB-3000) meets ANSI high velocity requirements. Observe that ANSI Z87 requires the use of suitable eye protection, in addition to the use of face shields.

- HB-7000** BrushGuard™, Equalizer earmuffs (27 dB NRR), nylon mesh visor (7" x 14").
- HB-3000** CoolGuard™, Equalizer earmuffs (27 dB NRR), Polycarbonate face shield (8" x 15" x 0.04").
- NV-7000** Replacement nylon visor for BrushGuard.
- FS-3000** Replacement Polycarbonate shield for CoolGuard.

Plug-in™ Receiver Muff

Elvex Plug-in Com muff can be connected to Com radios, FM radios, MP3 players and similar devices, if they are equipped with an output jack for a 3.5 mm plug. The headset is equipped with a coiled cord with a 3.5 mm stereo plug. Three plug adaptors are included for 2.5 mm jacks and mono and stereo applications. You will hear the sound from your device, loud and clear, up to the maximum sound level allowed by the specific Plug-in model. External volume control allows user to turn down the volume on the headset. Elvex Plug-in is tested by an independent laboratory to ANSI S12.6-2008 with a rating of 29-36 dB NRS (Noise Reduction Statistic).

- Com-610** Headset with 82 dB limiter, 25 dB NRR, 3.5 mm stereo plug
- Com-611** Headset with 85 dB limiter, 25 dB NRR, 3.5 mm stereo plug
- Com-612** Headset w/o limiter, 0 dB NRR, 3.5 mm stereo plug
- HK-600** Hygiene kit, replacement ear cushions and foam absorbers.



Mil-Spec, Com-550

Elvex Impulse foldable ear muff is equipped with noise suppression and communications circuitry. Users are getting impulse noise (such as gun fire) suppression, while the electronic circuitry simultaneously enhances weak sounds, such as an instructors voice. Sounds exceeding 82 dB are suppressed by a gain limiter.

- Elvex Impulse is a foldable hearing protector with 25 dB NRR. A heavy duty nylon case is included
- The hearing protector has two external microphones and two independent volume controls, positioned on the two ear cups. Each ear cup is equipped with its own electronic circuitry, thus requiring no wires between the two ear cups. The sound reception is stereophonic, with maintained directional hearing.
- An electronic gain limiter limits the sound produced inside the headset to 82 dB, in order to maintain hearing protector integrity.
- An impulse filter makes Elvex Impulse very effective on the shooting range. The gun shots are eliminated, but the shooting instructor can still be heard.

Level Dependent, Com-655

Elvex Level Dependent muff uses the same technical components and features (including impulse filter) as Elvex Com-550, but the electronics is tuned for continuous industrial noise, and the muff is a non foldable construction.

- The communications features allow you to have close range communications in select continuous noise environments. The microphones on the outside of the ear muffs "listen to" the environment and can amplify weak sounds, and the gain limiter suppresses sounds exceeding 82 dB. Frequencies below 400 Hz and above 4,000 Hz are not processed and therefore the speech to noise ratio can be improved in many continuous noise environments.
- An audio jack (3.5 mm jack) for connection of radios is standard. This jack will provide listen-only capability (not two way communications). You can hear both the auxiliary device and Com-655.
- Com-655 uses two 1.5 Volt AAA batteries. Batteries are included. The headset will operate for approximately 175 hours on one set of batteries, under normal circumstances. Reception is stereophonic.
- An auto off switch will turn off the headset after four hours of continuous use, in order to conserve battery use.



- An audio jack (3.5 mm jack) for connection of radios is standard. This jack will provide listen-only capability (not two way communications). You can hear both the auxiliary device and Com-550.
- Elvex Com-550 uses four 1.5 Volt AAA batteries, two on each side. Batteries are included. The headset will operate for approximately 200 hours on one set of batteries, under normal circumstances. An auto off switch will turn off the headset after four hours in order to conserve battery use.



ANSI S3-19-1974	Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	H	M	L	NRR
Mean Value, dB		15.7	21.9	31.2	34.9	34.9	37.1	39.4	39.9	39.4	35	29	21	25
Std. Deviation		2.7	2.8	3.2	1.9	2.5	3.4	2.2	3.6	3.5				

Com-550 Elvex Impulse, Mil-Spec, carrying case included, 25 dB NRR

Com-655 Elvex Level Dependent ear muff, 25 dB NRR

HK-600 Hygiene Kit consisting of replacement ear cushions and foam absorbers



DeTune™ Communications Earmuffs

Voice communication in noisy environments has always presented a number of challenges. Elvex DeTune provides effective hearing protection, and allows the user to adjust the frequency range of the sound that is transmitted through the speakers.

- A volume control allows the user to set the sound level inside the headset, up to a maximum of 82 dB.
- Two control knobs allow the user to filter out the high and the low frequencies independently of each other. When the filters are in the inactive position the user will hear the environment almost as if no hearing protector was worn, except for the maximum sound limiter.
- When filtering is applied the internal sound volume is kept constant by an automatic gain control (AGC).
- The high frequency filter allows an aggressive filtering of the high frequencies, down to about 3,000 Hz. The filter eliminates about 75% of the high frequencies within the adjustment range, and can be considered semi-transparent. If used in an environment dominated by high frequency noise, it can be clearly perceived that the headset filters out a large part of the undesirable noise. The most important speech frequencies are in the range of 500-3,000 Hz., and we are attempting to filter out most frequencies outside of this range. Elvex DeTune does however provide a choice to the user in how much filtering is desirable, and allows the user to seek out the filtering level that is optimal for the environment.
- The low frequency filter works in a similar fashion, allowing the user to filter out frequencies up to 600 Hz. The effectiveness of the low frequency filter is not as obvious as the high filter.
- DeTune is also equipped with an impact filter. This filter is activated by impact sounds, such as gunfire or rivet operations. The impact filter closes in a few microseconds and reactivates in about half a second.
- Com-640 is equipped with an automatic 4-hour shut-off in order to conserve batteries.
- This headset uses two AAA alkaline batteries, and they are accessible from an exterior battery compartment.
- An audio jack (3.5 mm) for connection of radios and MP3 players is standard. This jack will provide listen-only capability (not two way communications).



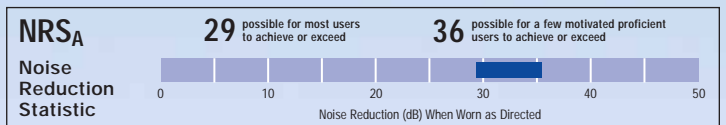
- It is important to understand that the electronics in the DeTune hearing protector does not improve the attenuation properties of the passive hearing protector. The electronics simply allow improvement of voice communication and speech understanding, while you continue to protect your hearing.

Com-640 DeTune headset, 29-36 dB NRS to ANSI S12.6.-2008.

HK-600 Hygiene Kit, ear cushions & foam absorbers.

ANSI S12.6-2008

Frequency, Hz	125	250	500	1000	2000	4000	8000
APV 80, dB	17.4	22.9	30.9	37.1	27.5	34.6	34.5
Mean Value, dB	20.7	26.3	34.3	39.5	32.0	39.0	38.8
Std. Deviation	3.9	4.0	4.1	2.8	5.4	5.2	5.1



Aware Am/Fm radio ear muffs

With Aware™ Am/Fm radio ear muffs you can hear what's going on around you, and communicate with coworkers without removing the hearing protection.

Features:

Summary: Elvex Aware, Com-680, is a hearing protector with built-in stereo Am/Fm Radio, and Aware™ technology. The Aware technology allows you to listen to the environment and communicate with coworkers while listening to the radio. Com-680 provides Radio-reception on the FM-band between 88 and 108 MHz and on the AM-band between 520 and 1700 KHz, while still protecting your hearing in an efficient and comfortable way. Accessory jack for Com radios and MP3 players.

- A sensitive radio offers FM and AM reception, so that you may listen to music, your favorite sports team or talk radio show.
- Aware technology allows you to hear the environment and communicate with coworkers while listening to the radio or auxiliary devices.
- Com-680 uses two AA alkaline batteries (included) and they are replaceable through an external battery compartment. A fresh set of batteries provides about 150 hours of operation.
- Just in case you forget to turn off your radio head-set, we have assured that you do not come back to a dead unit, by incorporating an automatic four-hour shutoff.
- The sound generated by the speakers is limited to a safe 82 dB level with the use of a gain limiter.
- In dependent testing established a Noise Reduction Rating of 22 dB and a SNR of 27 dB.
- Excellent sound quality: oversized speakers.
- Electronics in a protected compartments, separated from the ear cavity
- Soft cushioned headband and replaceable ear cushions.
- Ergonomic placement of controls for easy adjustment even with gloved hands.
- Accessory jack/Input jack that allows connection of auxiliary devices, such as MP3 players, CD-players and communications radios. Device connected to the input jack, can be heard individually or at the same time as radio and Aware technology.
- Available accessory: Muff kit with connection cables and storage bag.



Com-680 Aware AM/FM radio earmuffs.

Com-680-Kit Kit, consisting of one Com-680 with one cable with 3.5 mm stereo plugs in both ends, one connection wire with 3.5 mm and 2.5 mm plugs. Connection cables are approximately 1.0 m (3.3 feet) long. Also included is a micro-fiber storage bag.

HK-600 Hygiene Kit, replacement ear cushions and foam absorbers

ANSI S3-19-1974	Frequency, Hz	125	250	500	1000	2000	3150	4000	6000	8000	H	M	L	NRR
	Mean Value, dB	15.7	19.3	27.1	31.7	35.2	40.6	40.4	39.3	39.2	33 26 20 22			
	Std. Deviation	3.2	2.4	3.3	2.8	3.1	3.9	4.8	5.6	6.1				

CE EN-352-1:2002	Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	H	M	L	SNR
	Mean Value, dB	12.9	17.6	28.5	29.3	31.4	36.7	40.6	40.5	39.3	31 24 16 27			
	Std. Deviation	3.3	3.3	2.9	4.0	2.7	4.0	3.6	3.6	4.0				
Protection Value	9.6	14.3	25.6	25.3	28.7	32.8	36.9	36.9	35.3					

Quietunes Pro™



Quietunes™ A high visibility and high performance model

Elvex newest Quietunes AM/FM model is our response to the markets requirement for a higher attenuation model. Available in both standard and rechargeable models.

- The electronics has been separated from the hearing protection cavities, in order to avoid the problems associated with moisture and sweat affecting the life span of the electronics.
- A sensitive radio offers FM and AM reception, so that you may listen to music, your favorite sports team or talk radio show.
- The standard model uses two AA alkaline batteries (included) and they are replaceable through an external battery compartment. A fresh set of batteries provides about 150 hours of operation.
- Also available as a rechargeable model, Com-666R. Batteries are Nickel Metal Hydrate.
- Just in case you forget to turn off your radio headset, we have assured that you do not come back to a dead unit, by incorporating an automatic four-hour shutoff.
- The sound generated by the speakers is limited to a safe 82 dB level with the use of a gain limiter.
- Independent testing to the new ANSI S12.6-2008 standard established a Noise Reduction Statistic of 28 dB to 36 dB depending on user skill level.
- Input jack that allows connection of auxiliary devices, such as MP3 players, CD-players and communications radios.
- Available accessory: Muff kit with connection cables and storage bag.



COM-666R



Com-666 Quietunes AM/FM radio earmuffs.

Com-666-Kit Kit, consisting of one Com-666 with one cable with 3.5 mm stereo plugs in both ends, one connection wire with 3.5 mm and 2.5 mm plugs. Connection cables are approximately 1.0 m (3.3 feet) long. Also included is a micro-fiber storage bag.

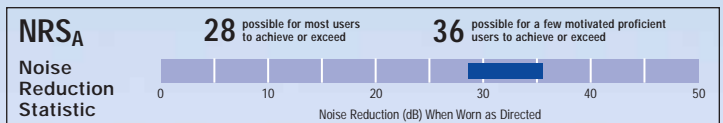
Com-666R Quietunes rechargeable radio ear muffs.

Com-666R-Kit Kit, consisting of one Com-666R with one cable with 3.5 mm stereo plugs in both ends, one connection wire with 3.5 mm and 2.5 mm plugs. Connection cables are approximately 1.0 m (3.3 feet) long. Also included is a micro-fiber storage bag.

HK-600 Hygiene Kit, replacement ear cushions and foam absorbers

ANSI S12.6-2008

Frequency, Hz	125	250	500	1000	2000	4000	8000
APV 80, dB	14.4	19.1	31.1	36.3	34.2	39.5	37.5
Mean Value, dB	17.0	20.6	32.7	39.0	36.7	42.7	39.6
Std. Deviation	3.1	1.8	1.9	3.2	3.0	3.8	2.6



Quietunes AM/FM™

Quietunes™ 660/660R, AM/FM Radio Ear Muffs

Elvex new Quietunes AM/FM model is our response to the market's requirements for a high quality, low cost model. Quietunes 660 offers the following features:

- All components for Quietunes 660 electronics have been designed specifically for this model and this has resulted in a contemporary and functional product. The electronics have been separated from the hearing protection cavities in order to avoid the problems associated with moisture and sweat affecting the life span of the electronics.
- The radio has FM and AM reception with improved sensitivity and station lock allowing you to listen to music, your favorite sports team or talk radio show. Com-660 runs on two AA alkaline batteries and they are replaceable through an external battery compartment. A fresh set of batteries provides about 150 hours of operation.
- Com-660R is a rechargeable model, using Nickel Metal Hydrate batteries. A 120 Volt charger is included.
- Just in case you forget to turn off your radio headset, we have incorporated an automatic four-hour shutoff.
- A new 3.5 mm input jack has been added in order to make it possible to listen to auxiliary devices such as i-Pods, scanners and Com-radios. The signal is sent through the amplifier and the headset must be turned on.
- The sound generated by the speakers is limited to a safe 82 dB level.
- Independent testing of the attenuation has established a Noise Reduction Rating of 22 dB NRR and 27 dB SNR to CE, EN-352.

- Com-660** Quietunes AM/FM radio earmuffs
- Com-660 Kit** Kit that includes a Com-660, two connection wires and a storage bag
- Com-660R** Rechargeable Quietunes earmuffs
- Com-660R Kit** Kit that includes a Com-660R, two connection wires and a storage bag
- HK-600** Hygiene Kit, replacement ear cushions and foam absorbers

CE 27 SNR



COM-660



COM-660R

ANSI S8-19-1974	Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	H	M	L	NRR
	Mean Value, dB	15.7	19.3	27.1	31.7	35.2	40.6	40.4	39.3	39.2		33	26	20
Std. Deviation	3.3	2.4	3.3	2.8	3.1	3.9	4.8	5.6	6.1					

CE EN-352-1:2002	Frequency, Hz	125	250	500	1000	2000	3150	4000	6300	8000	H	M	L	SNR
	Mean Value, dB	12.9	17.6	28.5	29.3	31.4	36.7	40.6	40.5	39.3		31	24	16
Std. Deviation	3.3	3.3	2.9	4.0	2.7	4.0	3.6	3.6	4.0					
Protection Value	9.6	14.3	25.6	25.3	28.7	32.8	36.9	36.9	35.3					