

# EP7 Sonic Defenders® Ultra



## Two Levels of Protection Against Two Types of Noise

Filtered EP7 Sonic Defenders *Ultra* provide two levels of protection—with their attached filter caps in or out—against two types of noise: continuous noise (example: loud roar of an engine) and impulse noise (example: gunshot). With the filter caps out of the noise-reducing filters, loud potentially dangerous sounds (above 85dB) are lowered while safe-level ambient sounds and conversations are allowed to pass through and be heard. With the filter caps inserted, additional hearing protection is afforded and ambient sounds and conversations are blocked. **FOR PROTECTION WITH THE ABILITY TO HEAR AMBIENT SOUNDS, leave filter caps out, or pry out with your fingernail if already inserted. FOR MAXIMUM PROTECTION OR SITUATIONS WHERE YOU DON'T WANT TO HEAR AMBIENT SOUNDS, insert filter caps into filter holes and push in until snug.**

## NOISE ATTENUATION DATA

### NOISE REDUCTION RATING (NRR)

#### EP7 Sonic Defenders *Ultra* - FILTER CAPS OUT

##### ATTENUATION DATA (ANSI STD S3.19-1974)

Test Frequencies (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR
Mean Attenuation (dB)	9.5	10.6	18.7	26.9	34.6	34.3	30.8	36.1	41.1	<b>14</b>
Standard Deviation (dB)	4.2	3.1	3.5	3.6	4.1	2.6	4.4	4.3	2.9	



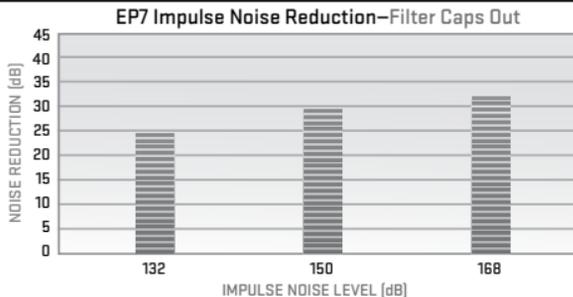
#### EP7 Sonic Defenders *Ultra* - FILTER CAPS IN

##### ATTENUATION DATA (ANSI STD S3.19-1974)

Test Frequencies (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR
Mean Attenuation (dB)	31.3	29.8	35.9	36.3	38.1	40.1	34.8	38.5	41.3	<b>28</b>
Standard Deviation (dB)	3.7	2.9	3.6	3.6	2.8	4.2	3.5	4.8	4.4	



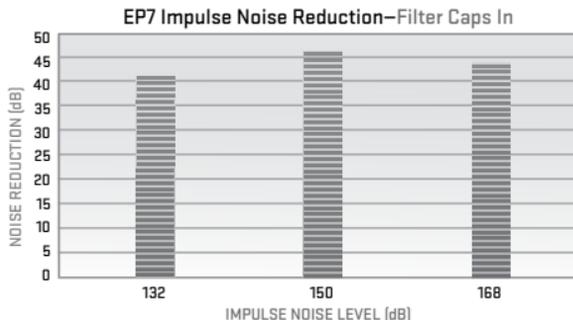
**WARNING:** Improper fit of this device will reduce its effectiveness in attenuating noise. Follow instructions for proper fit. Failure to follow instructions could result in hearing loss and/or injury. EP7 Sonic Defenders *Ultra* fit most people; however, no hearing protection fits everyone. If proper fit cannot be achieved following instructions, discontinue use. Do not use in environments with extreme air pressure or where abrupt pressure changes occur. Foam-tipped EP7s should NOT be worn for swimming. For swimming use, we recommend polymer flange-stemmed Sonic Defenders models.



Average Peak Impulse Level    dB Reduction

132 dB Overall Average PIL	24.5
150 dB Overall Average PIL	29.3
168 dB Overall Average PIL	32.1

ANSI S12.42-2010



Average Peak Impulse Level    dB Reduction

132 dB Overall Average PIL	41.8
150 dB Overall Average PIL	45.3
168 dB Overall Average PIL	44.9

ANSI S12.42-2010

## FITTING & TESTING



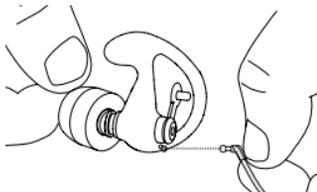
1. Roll Comply™ Canal Tip of color-coded (red filter for right) EP7 into a thin, round cylinder, being careful not to unscrew tip from stem.
2. Starting with the EarLock® retention ring of the right earplug oriented slightly backward, rotate the earplug forward while inserting the foam tip deep into the right ear canal. Fit the retention ring to the natural contour of concha bowl surrounding the ear canal to lock the earplug in place. Hold in place 15 - 30 seconds while foam tip fully expands in ear canal.
3. Check earplug's seal by placing your fingertip over the outer hole of filter and removing. Detection of a slight suction indicates a proper seal.
4. Repeat process with white-filtered earpiece for left ear.
5. Test by clapping, with filter caps out. If no noticeable decrease in volume, reinsert and retest.
6. To block lower-level noise\* in quiet environments, insert attached filter caps into filter holes and push in until snug.

\* Inserting filter caps negates noise-reducing filters' abilities to let ambient sounds & conversations pass safely through.

**WARNING:** If the instructions above are not adhered to, the protection afforded by EP7 Sonic Defenders *Ultra* will be severely impaired.

## CONNECTING/DISCONNECTING LANYARD

Remove twist tie and uncoil lanyard. Insert lanyard ends into small holes on the outside of EP7s, located beneath the noise-reducing filters, and push in until lanyard ends snap in place. To remove, pull gently on lanyard ends until they disconnect from earplugs.



## REPLACING COMPLY™ CANAL TIPS

For optimal performance, the Comply™ Canal Tips used on EP7s should be replaced every 2 - 4 weeks or when soiled. Additional tips can be purchased directly from SureFire. **To replace Comply™ Canal Tips:** 1. Unscrew old tips and discard. 2. Wipe earplug stems clean with a clean, dry rag. 3. Screw on new tips until fully seated and hand tight. **DO NOT** overtighten, as this may damage the stems. **ALWAYS** replace both tips at the same time.

## CLEANING, STORAGE & PRODUCT LIFE

EP7 Sonic Defenders *Ultra* typically last up to 6+ months, depending on usage and care. Clean earpieces with mild soap and water and allow to air dry. Clean foam tips by wiping with a clean cloth and rinsing with water, then air dry. Replace earplugs when they become stiff and hardened. Store in a cool, dry place in the included container. Do not leave in direct sunlight. In extreme storage temperatures, filters may separate from stems. If this occurs, filters must be reinserted into stems before using.

## RADIO COMMUNICATION SYSTEM USE

An EP7 earplug can also serve as an earpiece for compatible radio communication systems by simply removing its noise-reducing filter (store in a safe place for future use) and inserting the system's elbow connector into the hole previously occupied by the filter until snug.

**NOTE:** EP7s provide a reduced level of hearing protection with their noise-reducing filters removed.

## SUREFIRE NO-HASSLE PROMISE

**We'll do what it takes to keep your SureFire gear running smoothly.**

SureFire warrants that if you—our customer—purchase one of our products, and we determine that it is defective in material and/or workmanship, we will repair or replace it for free or refund your money—no hassle! SureFire Hearing Protection products are warranted for 90 days from the date of purchase. Our warranty does not cover consumables, or normal wear-and-tear, or damage resulting from abuse, alterations, unauthorized repairs, or use contrary to SureFire's user manuals. For complete warranty information, visit [www.surefire.com/warranty](http://www.surefire.com/warranty).