

THREAT4™

powered by **X**acore

IN-EAR DSP RADIO HEADSET

WITH ACTIVE LISTENING

Submersible (IP68) in-ear DSP behind-the-head headgear with noise attenuation & cancellation, noise cancelling boom mic and Limiting or Compression Active Listening/Talk-through

SERIES x-59000 FEATURES:

WEIGHT:

Headset only:

(no down-lead cable) 0.2lb/0.09kg

Headset with down-lead cable

and connectors:

(1 x AP107 + 1 x AP117) 0.35lb/0.158kg

Quad-mic™ Active Listening/
Ambient Audio Talk-through.

Bionic Ears/Enhanced Hearing.

Customizable.

No Battery Power Required.

Failsafe Communications.

Dual Radio Capable.

Advanced EMI Shielding.

Boom Microphone.

No Programming or Training Required.

Submersible.

Interchangeable Ear Pieces.

Low Profile & Protective Equipment

Compatible.

Hotspot Friendly.

Emergency Doffing.

PTT Options.

COLOUR: Army Green or Black

COMPATIBILITY: MBITR, AN/PRC-148, AN/PRC-150, AN/PRC-153, IISR, LVIS, TOCNET, SABER, SINGARS, VIC and more

NOISE ATTENUATING (NRS)

ATTENUATING PLUGS
32dB - 39dB



TRADITIONAL BUDS

(NON-ATTENUATING)



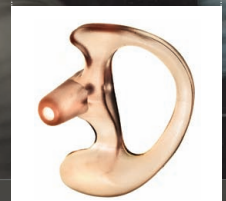
CUSTOM EAR MOLDS

FITTED AND TESTED AT
1800+ US LOCATIONS



OPEN EAR INSERTS

NON-ATTENUATING



SUBMERSIBLE (IP68) IN-EAR DSP BEHIND-THE-HEAD HEADGEAR WITH NOISE ATTENUATION & CANCELLATION, NOISE CANCELLING BOOM MIC AND LIMITING OR COMPRESSION ACTIVE LISTENING/TALK-THROUGH

THREAT4™
powered by **Xscore**

THE POWER PLANT

- Digital Signal Processor (DSP)
- 128-band Adaptive Noise Reduction algorithms providing up to 30dB of added stable gain
- 20-bit audio precision
- Automatic Adaptive Directional Microphone algorithms
- And much, much more.... ask our engineers.

QUAD-MIC™ ACTIVE LISTENING/AMBIENT AUDIO TALK-THROUGH.

Allows wearer to hear ambient noise at safe audio levels and has automatic response with a short attack time to protect from impulse noise and returning to normal hearing without missing the action. The patent pending Quad-mic™ System provides greatly enhanced situational awareness by using all four (4) mics for sound localization and is tuned for speech intelligibility. In addition, the Quad-mic™ System allows for noise reduction. The system default audio treatment setting is Limiting and can be switched on the fly to Compression for bionic hearing.

BIONIC EARS/ENHANCED HEARING.

Allows wearer to change audio treatment from Limiting to Compression for enhanced hearing. Compression, compresses the difference between the decibels (dB) of a quiet object and a louder object, effectively increasing the volume of something quiet. Limiting, limits louder noise like an engine so you can hear voices better, for example.

CUSTOMIZABLE.

Xscore's x-59000 series can be factory programmed to suit virtually any special needs. Whether there are types of noises (frequencies) you wish to completely eliminate, like an engine, or you would like to change the talk-through decibels, it's all possible because of our advanced feature rich DSP chipset and Quad-mic™ System. Contact Xscore with your requirements.

NO BATTERY POWER REQUIRED.

Xscore's x-59000 series headset uses less than 1mAh and therefore can be powered from the radio without compromising the radios' performance.

FAILSAFE COMMUNICATIONS.

Xscore's Quad-speaker System™ isolates communications from the electronics. Communications pass straight through into their own isolated pair of speakers, while electronics have their own secondary pair of speakers connected to the Quad-mic System™. In the unlikely event of electronic failure, communications will continue to function.

DUAL / TRI RADIO CAPABLE.

The Quad-speaker System™ allows the user to monitor and communicate on two or three radios/intercoms and connect via USB.

ADVANCED EMI SHIELDING.

Electronics are mounted inside a copper Faraday cage and all cabling is fully shielded with silver copper braid.

PTT OPTIONS.

Dual / Tri Radio, wireless sniper/finger and traditional inline body. PTT may also be configured for 3 radios, and is available with USB port.

IMPULSE NOISE PROTECTION.

The x-59000 has an automatic impulse noise protection to protect hearing. It is factory programmed as below however can be factory lengthened.
Attack time: 1/3 millisecond
Release Time: 1/3 millisecond

BOOM MICROPHONE.

Guarantees transmission even with loud back ground noises or while whispering. Boom mic isolation from body vibrations that rotary and tracked vehicles cause is crucial for crisp comms. Additionally, because they are worn close to the lips they ensure that only the intended voice is transmitted, especially when in close contact with others transmitting at the same time. Other non-boom mic systems cannot provide one-to-one communications all the time. Available mounted on the left or right, in noise cancelling Dynamic or Electret versions.

NO PROGRAMMING OR TRAINING REQUIRED.

"Plug-and-play", comes off-the-shelf and plugs straight into your radio. One button operation for on/off, volume up and down, and selection of Compression or Limiting audio treatment. May be programmed for unique environmental conditions or unique user requirements, see Customizable section.

SUBMERSIBLE.

Rated to 1m 31mins (IP68) in salt water.

INTERCHANGEABLE EAR PIECES.

Comes standard with open ear inserts, ear buds (nonattenuation, urban environments) and reusable standard size threaded ear plugs (attenuating, loud environments). Slim and short size ear plugs available. Attenuation tests are only for ear plugs obtained through Xscore.

Custom ear molds available through Xscore.

PASSIVE NOISE ATTENUATION

INDEPENDENTLY CERTIFIED BY ACCREDITED LABORATORY
Noise Reduction Statistic (NRS) ANSI S12.6-2008

NRS A Noise Reduction Statistic (dB)	32	Possible for most individually trained users to achieve or exceed	39	possible for a few motivated proficient users to achieve or exceed

LOW PROFILE & PROTECTIVE EQUIPMENT COMPATIBLE.

Allows for cheek to stock weld and fits under most ballistic helmets (i.e. MICH, ACH, PASGT), Nomex hoods, ballistic necks and shoulder protection.

HOTSPOT FRIENDLY.

Soft (low durometer) plastics in areas that are in contact with the head. Rounded design.

EMERGENCY DOFFING.

Headset can be removed without removing helmet.

PTT RETAINING MECHANISM.

MOLLE or 360 degree swivel clip with 45 degrees detents.

DATALOGGING

The Xscore DSP Power Plant records the audio environment that the headset is used in so that Xscore can, if required by the customer, further tune the headset prior to deployment or after time in the field. This is to ensure optimal performance.

COLOUR

Army Green or Black

