INVISIO® Technology Overview

Extensively fielded and combat proven, INVISIO® patented bone conduction technology captures speech directly from the inner ear via vibrations off the jawbone. This unique technology allows for ultimate speech clarity in high noise applications and even allows for speech underneath O2 or gas masks.

Every INVISIO headset utilizes the Bone Conduction Microphone (BCM) for speech and is available in several different model types.

INVISIO® Bone Conduction (BCM) Technology

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INVISIO® Markets and Applications

In professions where people work in teams, the need for communication is often decisive. External factors can make it difficult to hear and to be heard, in situations such as firefighters entering a burning building, police managing a crowd or military forces under attack.

Even within logistics and factory environments, complex processes require good communication between team members. For over a decade, INVISIO has ensured crystal clear communications to these segments of demanding users.
INVISIO® X5 Headset Overview: The INVISIO X5 has been fielded and combat proven by thousands of users across the world! Utilizing the INVISIO Bone Conduction Microphone the X5 offers advanced features such as enhanced electronic situational awareness paired with industry leading hearing protection. Unlike the M-Series, the X5 is a dual in-ear headset which is used in combination with INVISIO digital and advanced INVISIO control units. The X5 truly is one of the best performing and most rugged dual in-ear headsets on the market!

INVISIO X5 Comfort Overview: The INVISIO X5 headset zeros in on accommodating most ear shapes and sizes while providing an extremely comfortable fit. The earpiece’s new contoured shape provides an ergonomic and natural fit. The X5 features the patented Soft Spring™ which ensures the X5 stays securely in place during almost any type of application!

Advanced Audio Processing
The INVISIO® X5 headset includes miniaturized audio components, advanced digital signal processing and an ergonomic design that provides the most natural hearing and comfort possible. Because the X5 is an in-ear headset, it is able to utilize your own natural ear shape to help shadow sounds and provide accurate 360° awareness.

With advanced Digital Signal Processing (DSP) the X5 delivers natural ambient hear-thru that allows you to constantly monitor your surroundings and accurately pinpoint the origin of foreign sounds during operations.

Certified Hearing Protection
The X5 simultaneously allows you to monitor your surroundings and also provides you with industry leading and certified hearing protection. When exposed to loud or extremely high noise the X5 will reduce the incoming ambient audio and ensure you maintain your awareness at a safe level. Utilizing 6 unique sizes of expanding foam tips the X5 will provide you comfortable and reliable protection against impulse noises (like gunfire/explosions) as well as continuous noises (like large vehicles/equipment). If unprotected, these noises can cause permanent hearing damage and hearing loss!

Certified Hearing Protection Levels: 29NRR / 32 SNR - IP68 - 2 meter submersible
INVISIO® V60 Advanced Tactical Communication Control Unit

INVISIO V60 Control Unit Overview: The INVISIO® V60 is TEA's most advanced universal control unit/push-to-talk and is capable of connecting up to 3 separate communication devices and simultaneously communicating on up to 4 separate channels (with the use of a dual-net/talk group radio). The V60 combined advanced capabilities into a small easy to use system that can connect to practically any type of communication device and works with almost any type of headset.

**INVISIO V60 (Standard)**

- Headset Input
- PTT 1
- PTT 2
- COM 1 INPUT
- COM 2 INPUT
- PTT 3
- PTT 4
- Hear-Thru ON/OFF
- Level Adjustment
- COM 3/AUX
- PTT INPUT

**INVISIO V60 (*Wireless)**

- Wireless Antenna
- PTT 1
- PTT 2
- COM 2 INPUT
- COM 3/AUX
- PTT INPUT

**Standard MOLLE Clip Backing**

**Optional/Upgraded Alligator Clip Backing**

*Wireless indicates that the system can be used with a wireless/remote push-to-talk device compatible with the INVISIO V60.

**INVISIO M80 Wireless PTT:** The M80 dual wireless remote push-to-talk extends your ability to communicate using the INVISIO V60.

The M80 can be mounted directly onto rifle rails or secured using a Velcro strap.

**IP68 - 20 meter submersible**

for more information or to contact us go to www.TEAheadsets.com
Modular Smart Cables: The INVISIO V60 Control Unit utilizes modular radio/device interface cables that contain an embedded data chip that ensures the V60 delivers the most optimal audible performance for the connected device. To ensure the best performance possible every cable undergoes a rigorous development process and are finely tuned and field tested to verify the highest level of quality. By taking this approach we are able to develop and deliver interface capabilities to a rapidly expanding range of new communication devices and platforms.

Each cable is configured for optimal length allowing for a clean and seamless integration from your end device directly into the V60 control unit. V60 Modular Smart Cables are capable of disconnect and reconnect even while submerged! All V60 Comm Cables are rated to MIL-STD 810G, Method 506.5 and fully shielded for protection against electromagnetic interference (EMI) to MIL-STD 461F.

Interface Capabilities: We offer an extensive variety of interface cables for the INVISIO V60. This includes new and legacy military radios, public safety radios, mobile phones/tablets, PC/USB/Serial, vehicle/aircraft/boat intercom systems and more!

Optional INVISIO V60 Accessories: In addition to a variety of smart cables we also offer a range of accessories for the INVISIO V60. These include Headset Adapters, Remote Push-to-Talk options and Auxiliary Power Supplies.
INVISIO® V60 Military Free Fall Configuration

INVISIO® V60 Advanced Communication Systems
The INVISIO® V60 allows you to seamlessly control up to 3 devices/4 comm channels at once. The V60 can accommodate multiple types of headsets and utilizes modular interface cables that provides compatibility with almost any type of radio, com device or ICS on vehicles/aircrafts.

This system is available in 2 different options which is the standard version and a wireless version that allows the use of the INVISIO® M80 Dual Comm Rail Mounted Push-to-Talk Switch.

HALO REMOTE PUSH-TO-TALK
The GEN 2 HALO PTT from TEA provides a contoured fit around the user’s hand and has reinforced strain reliefs at every connection point for increased durability. The HALO PTT holds up to the strain of free fall and still allows for the use of parachute controls/toggles.

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In combat it is crucial for soldiers to maintain their situational awareness and still have protection from potentially damaging impulse noises such as gunfire, explosions, and continuous noise from vehicles or aircraft.

**INVISIO® X50 System:**
The INVISIO X50 system provides the ability to scale up to support multiple radios/devices/intercom systems or down to a single radio/com user. This system also utilizes the INVISIO X5 headset which provides certified hearing protection and enhanced electronic hear-thru.

**KEY SYSTEM FEATURES:**
- Connect 1-2 radios/devices/ICS
- Hear-Thru and Radio Volume Adjustments
- Utilizes modular radio/device interface cables
- Allows for use of Remote or Wireless PTT’s
- Submersible down to 2 meters

*US ARMY TCAPS APPROVED SYSTEM

**INVISIO® X50L (Non Radio) System:**
The INVISIO X50 Lite also utilizes the INVISIO X5 headset for hearing protection and enhanced electronic hear-thru. The INVISIO X50L modular control unit’s small and rugged design allows it to be easily accommodated onto vests/load-outs. The X50L has overstated design features that provides a positive tactility response to it’s control button and battery compartment. The simple 1 button operation also makes it easy for the soldier to quickly power on the X50L system and adjust hear-thru volume levels.

**KEY SYSTEM FEATURES:**
- Utilizes INVISIO X5 Headset (same as X50)
- Simple 1 button control for ON/OFF and Hear-Thru
- Provides Enhanced and Amplified Electronic Hear-Thru
- Submersible down to 2 meters
- AA Battery Provides up to 70+ hours of operation

Certified Hearing Protection Levels: 29NRR / 32 SNR - IP68 - 2 meter submersible

**Additional Options:**
- HAZMAT Applications
- Provides Certified Hearing Protection
- Connect up to 2 devices

**Multicom Product (X50 ONLY) Connect up to 2 devices**
Tactical HAZMAT Overview: Tactical HAZMAT applies to first responders to tactical HAZMAT situations. Tactical equipment such as ballistic helmets and vests are donned on top of the HAZMAT suite requiring all communication devices to be worn outside of the suite.

Technical HAZMAT Overview: Technical HAZMAT Solutions apply typically to users in a level A type suit. All equipment is worn underneath the HAZMAT suit but the user still has to have the ability activate or access their communication equipment through their suit.

TACTICAL HEADSET OPTIONS
- HI-THREAT Headset
- RAC Headset

EXTERNAL CONFIG (over suit)

TACTICAL PTT OPTIONS
- U94 w/Aux Input
- D-Switch

TACTICAL ACCESSORIES
- Mask Mic Cable

CONTACT TEA FOR ADDITIONAL OPTIONS AVAILABLE

for more information or to contact us go to www.TEAheadsets.com
TEA Product Warranty: TEA warrants that all products are free of manufacturing defects in material and workmanship for a period of 1 year. The Warranty is void and inapplicable if the product has been used in a way other than instructed, abused, or misused, damaged by accident or neglect or in being transported, or the defect is due to the product being repaired or tampered with by anyone other than TEA or an authorized TEA repair center. TEA provides a full-time repair depot, and any product that needs warranty or non-warranty repair or modification services, can contact our Repair Manager. A return authorization (RMA) must be obtained prior to returning any equipment for service. Estimated repair costs and analysis can be provided prior to work being performed. TEA reserves the right to repair or exchange upon inspection of a product under warranty.