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® M-Series Overview
INVISIO M-Series headsets are configured to work with both analog and digital radios, can be adapted to work with any standard TEA Push-to-Talk Switch. Key features of all INVISIO® M-Series Headsets include Kevlar woven cables for added durability, unique whisper capability, the ability to work under eye wear/gas masks and also the ability to clearly communicate in high noise environments.

INVISIO® M3 Standard Headset
The INVISIO® M3 is our standard and most popular in-ear bone conduction headset. The M3 has a universal design that can fit almost any ear and is available for either right or left ears. The M3 is rated IP64 which means it can hold up to exposure to rain or moisture.

INVISIO® M3s Submersible Headset
The INVISIO® M3s has been the headset of choice for some of most elite amphibious/maritime teams around the world for more than a decade. The M3s is a fully submersible with an IP68 rating (down to 20 Meters) and is available is either Black or Beige colors. The M3s allows for clear communications in and out of the water.

INVISIO® M3h Hearing Protection Headset
The INVISIO® M3h provides you clear in-ear communications as well as certified hearing protection. The M3h is designed to work with Comply Foam Tips to provide the maximum level of hearing protection. The M3h is available for either right or left ears as well as a special submersible version. Provides Certified Hearing Protection Rating of 29NRR/32SNR

INVISIO® M4 Custom Fit Headset
The INVISIO® M4 is an in-ear bone conduction headset that is custom made to fit your exact ear shape. The M4 is made using an exact laser cut impression of your ear, so every contour, ridge and detail of your inner ear is incorporated into the headset, providing you with one of the most comfortable tactical in-ear headsets in the world!

INVISIO® M4s Custom Sub. Headset
The INVISIO® M4s is our Custom Molded Submersible M-Series Headset. The M4s is a fully submersible with an IP68 rating (down to 20 Meters) and is available for either right or left ears. The M4s allows for superior comfort and clear communications in and out of the water.

for more information or to contact us go to www.TEAheadsets.com
The INVISIO® X5 headset includes miniaturized audio components, advanced digital signal processing and an ergonomic design. 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.

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!
**INVISIO S10² System Overview:** The next generation of the INVISIO S10 Modular Headset features the new INVISIO X5 dual in-ear headset and all new hear-thru audio profile. The S10² has a new ruggedized headset cable design with integrated cable management clip and new ergonomic earpieces that provide you with a secure and a more comfortable fit.

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

**Certified Hearing Protection:** The S10² 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 system will reduce the incoming ambient audio and ensure you maintain your awareness at a safe level.

**Tactical U94 Push-to-Talk Switch**
The Tactical U94 PTT from TEA is one of the most popular switches on the market. Rugged and reliable the U94 can be configured to work with practically any type of radio. The U94 has a modular backing that allows right or left side wear and features a protective headset input to prevent water or debris from entering the socket.

**Tactical U94 Dual Version**
The U94 is available in a dual radio configuration. This version of the U94 can be customized to accommodate a variety of radio and device combinations including Radio+Radio, Radio+Mobile Phone or Radio+ICS.
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. The INVISIO X50 and INVISIO X50L systems both utilize the INVISIO X5 dual in-ear headset which provides certified hearing protection and enhanced electronic ambient awareness.

**INVISIO® X50 Multi-Radio System:**
The INVISIO X50 system provides the ability to scale up to support multiple radios/devices/intercom systems or down to a single radio with its modular smart cable interface.

This system 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

**INVISIO® X50L (Non Radio) System:**
The INVISIO X50 Lite also utilizes the INVISIO X5 headset. The system’s small and rugged design allows it to be easily accommodated onto vests/load-outs. The X50L has overstated design features that provide a positive tactility response making it easy for the soldier to quickly power on and adjust hear-thru volume.

**KEY SYSTEM FEATURES:**
- Utilizes INVISIO X5 Headset (same as X50)
- Simple 1 button hear-thru audio control
- Provides Enhanced Electronic Hear-Thru
- Submersible down to 2 meters
- AA Battery Provides up to 70+ hrs of operation

**X50L Advanced Hear Thru Audio:** The X50L features next generation audio processing from INVISIO providing you the most natural sounding audio in a tactical in-ear headset system. The X50L allows you to quickly adjust your hear-thru levels with it’s simple 1 button audio control.

- **Natural Hearing** - Hear your surroundings at your natural or normal level of hearing.
- **Enhanced Hearing** - Amplified hear thru audio allows you to hear sounds you normally wouldn’t be able to detect. +10dB above your natural level of hearing.
- **Comfort Hearing** - Reduced hear thru audio that allows you to monitor your ambient hearing but at a comfortable level. Ideal for operations in and around loud and constant noise environments such as generators, vehicles and aircraft. -10dB below your natural level of hearing.

**CERTIFIED HEARING PROTECTION LEVELS:**
29NRR / 32 SNR - IP68 - 2 meter submersible

INVISIO® X50/X50L Systems
INVISIO® V20 Single/Dual Net Radio In-Ear Headset System

INVISIO V20 System Overview: The V20 was designed specifically for single or dual net radio applications. The system includes the next generation INVISIO X5 dual in-ear headset and all new hear-thru audio profile. This cost effective single or dual net system has hard wired headset and radio cables into the control unit. The V20 is perfect for large military combat units and provides you with a simple to use all-in-one tactical communication system.

*Advanced Hear Thru Audio: The V20 features next generation audio processing from INVISIO providing you the most natural sounding audio in a tactical in-ear headset system. The V20 allows you to quickly adjust your hear-thru levels with it’s simple 1 button audio control.

Certified Hearing Protection: The V20 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 system will reduce the incoming ambient audio and ensure you maintain your awareness at a safe level.

Single or Dual Net Radio Capability
The V20 standard configuration is compatible with standard military radios such as the PRC 148 and PRC 152/152A. When using these radios both PTT 1 and PTT 2 will key your primary radio to transmit.

This system can also be configured to work with the new dual net radios. When using the dual net radio version of the V20 PTT 1 will transmit on Net A and PTT 2 will transmit on Net B or your secondary channel.

*The V20 pulls power from connected radio.

INVISIO V20 Control Unit
Hard wired Headset Cable
Headset Cable Slide
External Hear-Thru Microphone
Speaker
INVISIO® Bone Conduction Microphone
INVISIO® X5 Dual In-Ear Headset
INVISIO V20 Standard Radio Configuration
PPPT 1
(common Net A)
PTT 2
(common Net B)
MOLLE Clip Backing
6 Pin Radio Connector
Certified Hearing Protection Levels: 29NRR / 32 SNR - IP68 - 2 meter submersible

*The System is only available for military radio types (6-pin connectors).
INVISIO® V40 Dual Radio/Device In-Ear Headset System

INVISIO V40 System Overview: The V40 was designed to be used with a specific single/dual net radio but also provides the capability of connecting a secondary radio, ICS, mobile phone or the use of a remote push-to-talk switch. The system includes the next generation INVISIO X5 dual in-ear headset and all new hear-thru audio profile. The V40 is perfect for users that require the use of a secondary com device such as team leads, command elements, mounted/vehicle combat units and personnel operating in aircraft.

*Advanced Hear Thru Audio: The V40 features next generation audio processing from INVISIO providing you the most natural sounding audio in a tactical in-ear headset system. The V40 allows you to quickly adjust your hear-thru levels with it’s simple 1 button audio control.

Certified Hearing Protection: The V40 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 system will reduce the incoming ambient audio and ensure you maintain your awareness at a safe level.

INVISIO® Bone Conduction Microphone
Hearing Protection Foam Tip
External Hear-Thru Microphone
Speaker
INVISIO® X5 Dual In-Ear Headset
INVISIO V40 Control Unit
Hard wired Headset Cable
Hard wired Radio Cable
Soft Spring™
Cable Retainer
INVISIO® V40 RADIO+ICS Configuration
INVISIO® V40 RADIO+RADIO Configuration
PTT 1 (or Not A)
PTT 2 (or Not B)
PTT 3
PTT 4 (ICS Latch/Mute)
COM 2
COM 2 Modular Smart Cable Input: The V40 features a COM 2 input port that allows you to connect to a secondary radio, aircraft/ground vehicle/watercraft intercom system, mobile phone or remote push-to-talk switch. We offer a variety of modular smart cables that allow you to connect and control to practically any kind of communication device.

Portable Radio Cable
Aircraft Intercom Cable
Vehicle Intercom Cable
Mobile Phone Cable

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

All options and accessories not shown for more information or to contact us go to www.TEaheadsets.com
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 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.

Rugged but Comfortable: The new X5 dual in-ear headset has an all new ruggedized cable design and smaller ergonomic earpieces that provide a more comfortable and secure fit.

*Advanced Hear Thru Audio: The V40 features next generation audio processing from INVISIO providing you the most natural sounding audio in a tactical in-ear headset system. The V40 allows you to quickly adjust your hear-thru levels with it’s simple 1 button audio control.

Certified Hearing Protection: The V40 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 system will reduce the incoming ambient audio and ensure you maintain your awareness at a safe level.
INVISIO® V60 Modular Smart Cables, Adapters and Accessories

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 M80 PTT
For more information or to contact us go to www.TEAheadsets.com

TEA REMOTE PTT
A variety of remote PTTs

INVISIO M30 PTT
Finger mounted PTT

Auxiliary Power Supply
Stand alone and in-line power

Aux. Hybrid Rail Boom Mic
For extreme high noise applications

Headset Adapters
For Legacy or Consumer

O2 Mask Adapter
Applications

Contact TEA for additional options and capabilities of the INVISIO V60 Advanced Communication System.
Contact TEA Headsets

SALES OFFICES


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.

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