

# INVISIO

Tactical Communication and Hearing Protection Systems



PUBLIC SAFETY



POLICE

## 25 years of Combat Proven Experience at your service

INVISIO is a global market leader within advanced hearing protection and communication systems for security and defense forces with more than 300.000 systems fielded globally. Our strong position is built on 25 years of proven experience, utilizing cutting-edge technology to deliver industry-leading solutions to the most elite and demanding units around the globe.

INVISIO continually pushes the boundaries of technology in order to protect and enable professionals to operate and communicate clearly and safely in all environments. During critical operations such as riot control, hostage situations or fire and rescue operations, the need for

hearing protection and crystal-clear communication is crucial to both officer and public safety. Effective communication can make the difference between safely defusing a situation or US feedback - replace with: risking the lives of officers or emergency services personnel.

INVISIO's core capabilities are:

- Crystal clear communication
- Effective hearing protection
- Full situational awareness
- Seamless integration



The INVISIO Communication System is based on a range of fully interchangeable headsets and control units. All INVISIO systems feature INVISIO IntelliCable® programmable cables, that enables seamless integration to communication devices.

# The INVISIO Solution is Unique Yet Simple

## Crystal Clear Communication

even in extreme environments

INVISIO communication systems are designed to perform reliably in a wide range of extreme environments such as crowds, public venues, demonstrations, gunfire, breaching, vehicles/helicopters, etc.

No matter the situation, INVISIO's cutting-edge technology provides crystal clear communication that is essential for reducing risk to the officer or firefighter and ensuring operational success.

## Seamless Integration with communication devices and equipment

The INVISIO systems can be tailored to fit any critical operation or scenario. INVISIO solutions are versatile, scalable and cost-effective and can be used across different teams and individuals.

The modularity is based on the patented INVISIO IntelliCable® that enables all equipment to be interchangeable across current and future INVISIO systems. It automatically detects devices such as radios, intercom systems, smartphones, computers and remote PTTs, and sets the audio and system parameters instantaneously.



INVISIO X7  
In-Ear Headset

# The INVISIO Solution is Unique Yet Simple

## Full Situational Awareness

even in the most complex situations

The ability to retain full situational awareness is essential for public safety personnel and operational success. Personnel need to maintain natural hearing abilities and still be protected from potentially damaging noises, such as flash bangs, gunshots or explosions, as well as continuous noise from vehicles or helicopters.

INVISIO systems use advanced digital signal processing with an ergonomic headset design to provide the most natural hearing possible – even in extreme conditions.

The INVISIO systems meet the demands of users in high noise environments.

The INVISIO X7 in-ear headset in combination with the INVISIO T7 over-the-ear headset provides dual layer hearing protection of SNR 43 dB and NNR 34 dB.

## Effective Hearing Protection

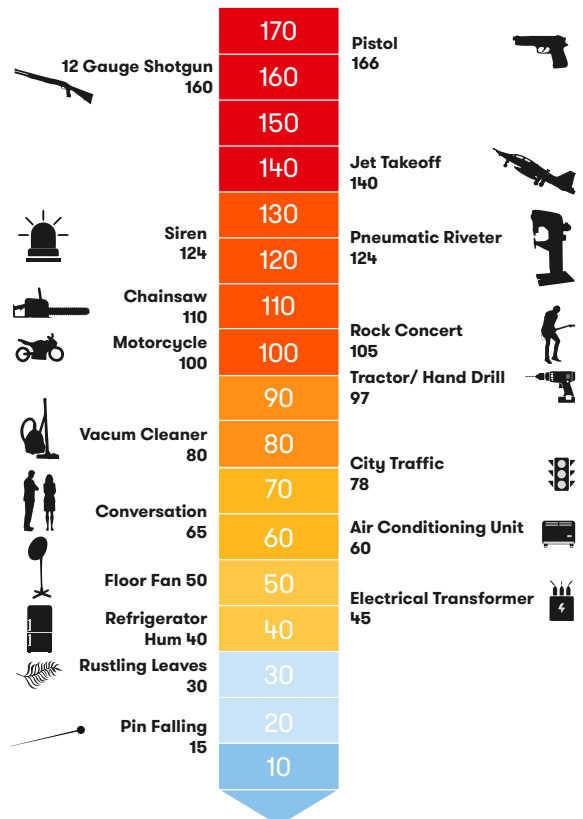
against harmful sounds

There is a significant risk of noise induced hearing loss for public safety personnel due to the environments they operate in. They are exposed to a variety of high or constant noise, including gun fire, explosions, sirens, traffic and radio chatter.

Hearing loss is both a human and financial issue – protecting the personnel and reducing costs are two sides of the same coin.

### Decibel Scale (dBA)\*

After prolonged exposure to decibel levels above 80 dB(A) people can start to suffer from permanent hearing loss. INVISIO headsets reduce harmful acoustic pressure so that it does not exceed 85 dB(A).





**INVISIO T7** - -  
Over-The-Ear  
Headset

● - - - - **INVISIO V10 II**  
Single Com Control Unit

## Cutting Edge on Every Level

because we know your challenges

INVISIO's product innovation is driven by close collaboration and a profound understanding of our users' work environments and specific needs. Our team is rooted in the industry, allowing us to tailor solutions that truly meet your requirements.

INVISIO builds on the experience from working with elite forces within the military when serving special intervention units resolving high risk challenges such

as counter terror, hostage recovery, VIP protection, site protection during special events and assistance to other police departments fighting organized crime.

Officers maintaining public order and protecting people and property, in particular, benefit from INVISIO's unique combination of cutting-edge tactical communication and hearing protection systems while maintaining situational awareness.

INVISIO products are used by the most elite customers in the world. In excess of 300.000 systems are fielded and proven in more than 50 countries.



# INVISIO

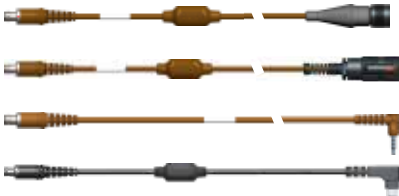
## Complete Modularity



INVISIO Body-worn System

## Modular and Scalable

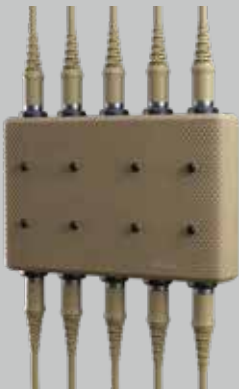
INVISIO solutions are versatile, scalable and cost-effective. Equipment and systems are not restricted to serving one team but can be used across different scenarios and individual needs.



INVISIO IntelliCable®

## Plug & Play

INVISIO IntelliCable® enables all INVISIO equipment to be interchangeable and to integrate to other comms devices. It automatically detects the devices and sets all audio and system parameters.



INVISIO Intercom System

## Flexible and Mobile

The INVISIO Intercom System enables inter-group communication, wired or wirelessly, by plugging their existing dismantled system into any vehicle communication platform. The system can be adjusted on the go thanks to the INVISIO Control App.

# INVISIO

## Complete Modularity

### Adaptable

You don't need to change a whole system in order to tailor a solution to a specific need or unit.



Riot control



Bomb squad



Negotiator



Firefighter



SWAT team

### Compatible

Hundreds of cables and adapters are available for comms with cell phones, tablets, intercoms, drones, sensor/robotic systems, etc.



Drones



Computers



Tablets



Smart phones

### Versatile

The Intercom System bridges the gap between the mounted and dismounted officer. Any vehicle communications platform is easily integrated.



Fire truck



Helicopters



Boats



Ground vehicles

# INVISIO SWAT Team

## Challenge

- Multiple operational scenarios, including counter-terror, high risk warrant service, barricaded subjects, hostage recovery situations and VIP protection.
- A need for operating different comms sources simultaneously, such as radios, mobile phones and intercom.
- A need for crossbanding to enable relay of audio between different radios or nets.
- Comms equipment to support operations in whisper-only environments as well as high noise environments.
- Hearing protection – while retaining natural hearing of ambient sound – is essential for mission success.
- Headset systems need to cater to various headgear, such as different helmet types and gasmasks.

## Solution examples

### Headsets

INVISIO X7 – in-the-ear headset

INVISIO T7 – over-the-ear headset, available in headband, neckband or helmet mount configuration

### Control units

INVISIO V10 II – single com control unit

INVISIO V50 II – dual com control unit

### Remote PTT

INVISIO R30 Wireless Remote PTT

### Cables & Accessories

Connection to digital and analogue radio(s)

Connection to devices with 3.5mm jack connector

Adaptors for legacy or 3rd party headsets

Helmet mounts



## Challenge

- Communicate in high noise/high stress environment while being hearing protected.
- Ability to communicate with gas mask/helmet/face shield.
- Ability for shield carrier/less lethal grenadier to communicate without taking hands away from weapon/shield.
- Retain situation awareness to facilitate tactical comms and to communicate with civilians without removing hearing protection.

## Solution examples:

### Headset

INVISIO X7 – in-the-ear headset

### Control units

INVISIO V20 II – single com control unit

INVISIO V60 II – tri-com control unit

### Remote PTT

INVISIO R30 Wireless Remote PTT

### Cables & Accessories

Connection to digital and analogue radio(s)

Connection to devices with 3.5mm jack connector

Adaptors for legacy or 3rd party headsets



# INVISIO Bomb Squad

## Challenge

- Quick threat assessment to make critical decisions on the spot.
- Ability to communicate in protective suit, gloves and masks/helmets.
- Interface to comms devices for reliable link to command center as well as unmanned systems, sensors and IT.
- Enhanced situational awareness and hearing protection is key.
- Safety, speed and robustness as key requirements for EOD solutions, sensors and detection systems.
- Ability to use Vox or PTTs outside the protective suit.

## Solution examples:

### Headset

INVISIO X7 – in-the-ear headset

### Control unit

INVISIO V50 II – dual com control unit with built-in power

### Remote PTTs

INVISIO R30 Wireless Remote PTT  
INVISIO R30 Single Button PTT  
INVISIO M30 finger PTT

### Cables & Accessories

Connection to digital and analogue radio(s)  
Connection to EOD-devices  
Adaptors for helmet integrated microphone/  
speaker systems



## Challenge

- Maintain full situational awareness while being hearing protected at the same time.
- A need for crossbanding to enable relay of audio between different radios or nets.
- Comfort is key, also for long missions, either with or without wearing a helmet.
- Undisturbed two-way exchange of vital information between sniper and spotter without involving radio communication.
- Reliable radio links to the team leader and support assets.
- Ability to communicate without taking eyes off the target or hands from the weapon at any time.

## Solution examples:

### Headset

INVISIO X7 – in-the-ear headset

### Control unit

INVISIO V60 II – tri-com control unit

### Remote PTTs

INVISIO R30 Wireless Remote PTT  
INVISIO R30 Single Button PTT  
INVISIO M30 finger PTT

### Cables & Accessories

Cable connecting two INVISIO V60 II control units (sniper and spotter)  
Connection to digital and analogue radio(s)  
Connection to devices with 3.5mm jack connector  
Adaptors for legacy or 3rd party headsets



**INVISIO**  
Fire & Rescue



# INVISIO Chief Firefighter



Headsets



Control units



Cables

## Challenge

- Operating different comms sources simultaneously, such as radios, mobile phones and intercom.
- Multiple COM-ports support to access multiples channels and comms devices
- Ability to have clear communication in high noise environments while retaining ambient hearing through environmental adaptation
- A need for high temperature resistant equipment - suitable for decontamination

## Solution examples:

### Headsets

INVISIO X7 - in-the-ear headset

INVISIO T7 - over-the-ear headset, available in headband, neckband or helmet mount configuration

### Control units

INVISIO V50 II - dual com control unit

INVISIO V60 II - tri-com control unit

### Cables & Accessories

Connection to digital and analogue radio(s)

Connection to devices with 3.5mm jack connector

Adaptors for legacy or 3rd party headsets

Helmet mounts



# INVISIO Firefighter

## Challenge

- Comms equipment to support operations in high noise environments such as engine trucks running on high idle and operating heavy equipment or pumps
- Hearing protection – while retaining natural hearing of ambient sound
- Headset systems need to cater to various headgear, such as different helmet types; SCBA gear, gas masks or other PPE
- A need for high temperature resistant equipment
  - suitable for decontamination

## Solution examples:

### Headsets

INVISIO X7 – in-the-ear headset

INVISIO T7 – over-the-ear headset, available in headband, neckband or helmet mount configuration

### Control unit

INVISIO V10 II – single com control unit

### Accessories

INVISIO R30 Single Button PTT

Comply tips

### Cables & Accessories

Connection to digital and analogue radio(s)

Connection to devices with 3.5mm jack connector

Adaptors for legacy or 3rd party headsets

Helmet mounts



Headsets



Remote PTT

Control unit



Cables & Accessories



## SWAT Supervisor

San Antonio Police Department,  
San Antonio, Texas

The INVISIO in-ear headset shines in all aspects of Special Operations. We routinely utilize the in-ear headsets during airborne operations which gives us the ability to clearly communicate with the flight crew as well as ground units during Tyler Mount and fast rope operations.

**“The hearing protection blocks the harmful sounds while also giving the operator unbelievable situational awareness with almost pin point accuracy.”**

The hear-through system coupled with the hearing protection completely changes the game when in close proximity to distraction devices or gun fire giving the operator the ability to maintain focus during high-risk operations.

## SWAT Officer

Chicago Police Department,  
Chicago, Illinois

“We have been incredibly impressed with INVISIO products. Our SWAT team uses the V60 II dual comm and the V10 II single comm PTT with the choice of an over-the-ear or in-the-ear headset.

The PTT's are rugged and easy to use. I routinely use my cell phone to talk to the Tactical Operations Center through my INVISIO kit. The T7 forms a better seal than products used in the past and that means better hearing protection when shooting on the range or deploying NFDD's.

For teammates who prefer an in-the-ear headset, these are remarkably comfortable and is the best hearing protection.

The in-ear headset is my top choice to use while wearing a gas mask and it proved itself during the 2020 riots!

Finally, INVISIO has excellent customer service! The reps that I have worked with are always taking my calls and answering my questions immediately; if they are unsure of a technical answer, they find the answer and get back to me.

I have no regrets for switching to all INVISIO products on our assault kit and they have earned a loyal customer.

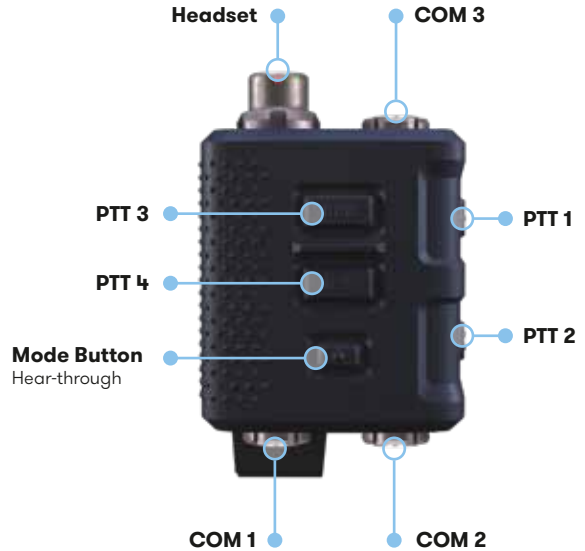


# INVISIO Control Units

The INVISIO system is based on a range of control units and headsets that are fully interchangeable. Together they provide crystal clear communication and industry leading hearing protection and situational awareness.

The control units can interface with various headsets along with up to four com sources simultaneously, including radios, intercoms, mobile phones and computers. They start automatically when connected to a radio and provide a simple interface for operation of different coms and hear-thru modes.

The control units are small, rugged, lightweight and submersible down to 20 meters. They power directly from the attached radio, intercom or other central power supply.

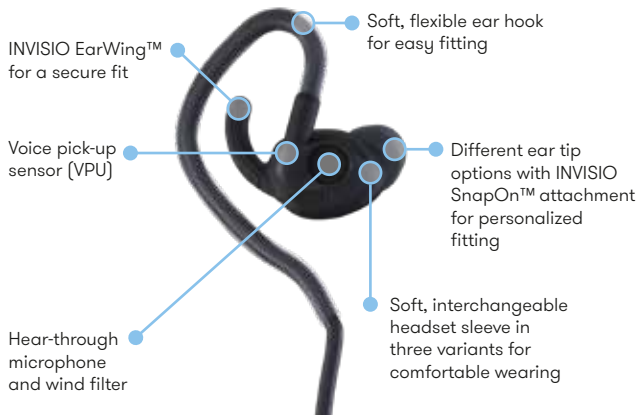


Control Unit	V10 II	V20 II	V50 II	V60 II
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<b>COM Ports</b>	1	1	2	3
<b>PTT Buttons</b>	1	2	4	4
<b>Hear-through Button</b>	1	1	1	1
<b>Size</b>	70 x 40 x 27 mm 2.8 x 1.6 x 1.1 in	64 x 40 x 27 mm 2.5 x 1.6 x 1.1 in	70 x 63 x 30 mm 2.8 x 2.5 x 1.2 in	70 x 63 x 25 mm 2.8 x 2.5 x 1.2 in
<b>Weight</b>	127 grams / 4.5 oz	97 grams / 3.4 oz	167 grams / 5.9 oz	145 grams / 5.1 oz
<b>Colour</b>	Black or tan	Black or tan	Black or tan	Black or tan
<b>Immersion</b>	20 meters / 65.6 ft	20 meters / 65.6 ft	20 meters / 65.6 ft	20 meters / 65.6 ft
<b>Power</b>	From comms	From comms	From internal battery or comms	From comms

# INVISIO Headsets



INVISIO headsets provide industry-leading hearing protection and situational awareness with maximum comfort and a secure fit. A range of headsets are available including dual in-ear, submersible in-ear and ear-cups with boom mics.

INVISIO in-the-ear headsets are compatible with helmets, eyewear, breathing apparatus and ear muffs. Vibrations from the inner ear are converted into speech and then further enhanced by AI-technology to provide crystal clear communication.

INVISIO over-the-ear hearing protection headsets offer a significant improvement compared to the traditional cup headset design, as it removes weight and complexity from the headset by centralizing operation of the headset to the INVISIO control unit.

Headsets	M3s	X7	T7
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<b>Style</b>	In-the-Ear (ITE)	In-the-Ear (ITE)	Over-the-Ear (OTE)
<b>Hearing Protection</b>	N/A	SNR 39 dB / NRR 32 dB	SNR 28 dB / NRR 22 dB
<b>(Tx) Microphone</b>	Bone Conduction	Voice pick-up sensor	Boom
<b>Size (Earpiece only)</b>	13 × 11 × 24 mm 0.5 × 0.4 × 0.9 in	19 × 14 × 15 mm 0.7 × 0.5 × 0.6 in	83 × 110 × 49 mm 3.3 × 4.3 × 1.9 in
<b>Weight (Incl. connector)</b>	18 grams / 0.6 oz	47 grams / 1.6 oz	347 grams / 12.2 oz
<b>Colour</b>	Black or tan	Black or tan	Black or tan
<b>Immersion</b>	20 meters / 65.6 ft	2 meters / 6.6 ft	10 meters / 32.8 ft

\* Also available in neckband and helmet mount versions.

## Seamless Integration

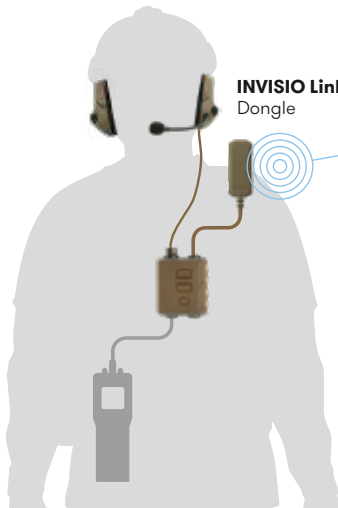
Between the dismounted and mounted officer

The INVISIO Intercom System bridges the gap between the mounted and dismounted officer, making it possible for multiple users and radios to connect simultaneously using their existing dismounted system.

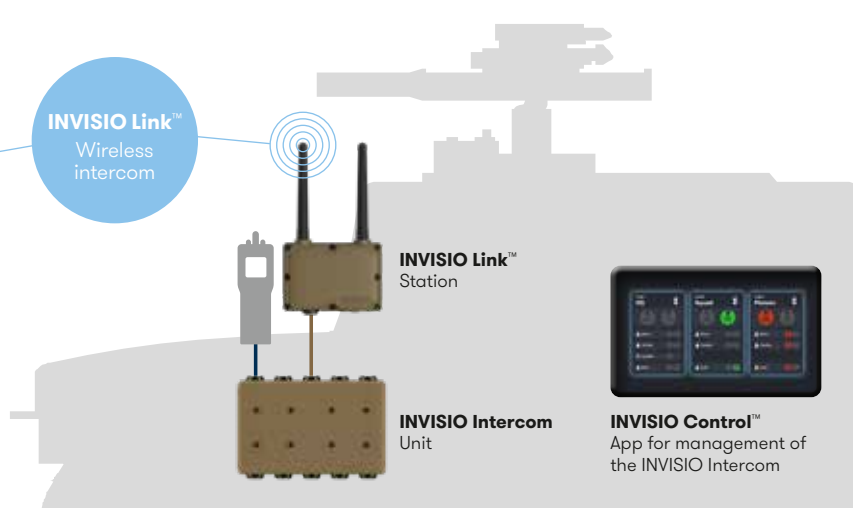
The user can access all vehicle communications directly from their INVISIO control unit. There is no need to take off or put on equipment when entering or exiting a vehicle.

Any vehicle communications platform is easily integrated with minimal effort. The system is lightweight, plug and play and unparalleled in size; letting units move anywhere while maintaining communication.

### INVISIO body-worn system

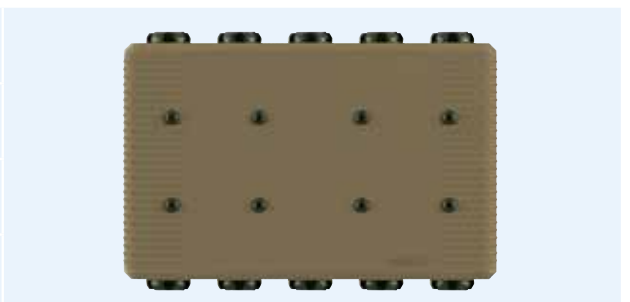


### INVISIO mounted system



### Available Color: ●

Cable auto-sensing	4 com ports
2 meters / 6.6 ft submersible	5 user ports
Powers from battery or vehicle	1 power port
520 grams / 18.3 oz	150 × 95 × 27 mm 5.9 × 3.7 × 1 in





INVISIO  
Volume Control  
Station

INVISIO  
Intercom System

# INVISIO Accessories



## Neckband Boom Mic

Microphone for extreme high noise environments.



## Lapel Mic 3.5 mm Jack

Omni-directional microphone for low and medium noise environments.



## Remote Speaker Mic

Enables loudspeaker communication and voice transmission. Used instead of a headset and controlled through the PTT on the control unit.



## RA5100 Headset

Headset with ANR for both mounted and dismounted use. Reversible boom mic and internal battery.



## INVISIO T7 Helmet Mount

ARC rail



## INVISIO T7 Helmet Mount

TW rail



## M30 Finger Mounted PTT

Remote PTT for finger mounting. Submersible down to 2 meters.



## R30 Wireless Remote PTT

Remote wireless PTT for rifle mounting. Submersible down to 20 meters.



## R30 Single Button

Remote PTT for mounting on chest. Tactile and easy to actuate button.

# INVISIO Accessories



## X7 Foam Tips

- There are six sizes:
- Two lengths – original & short
  - Three diameters – slim, standard & large



## X7 Tri-flanged Tips

- There are three sizes:  
Small, medium and large.



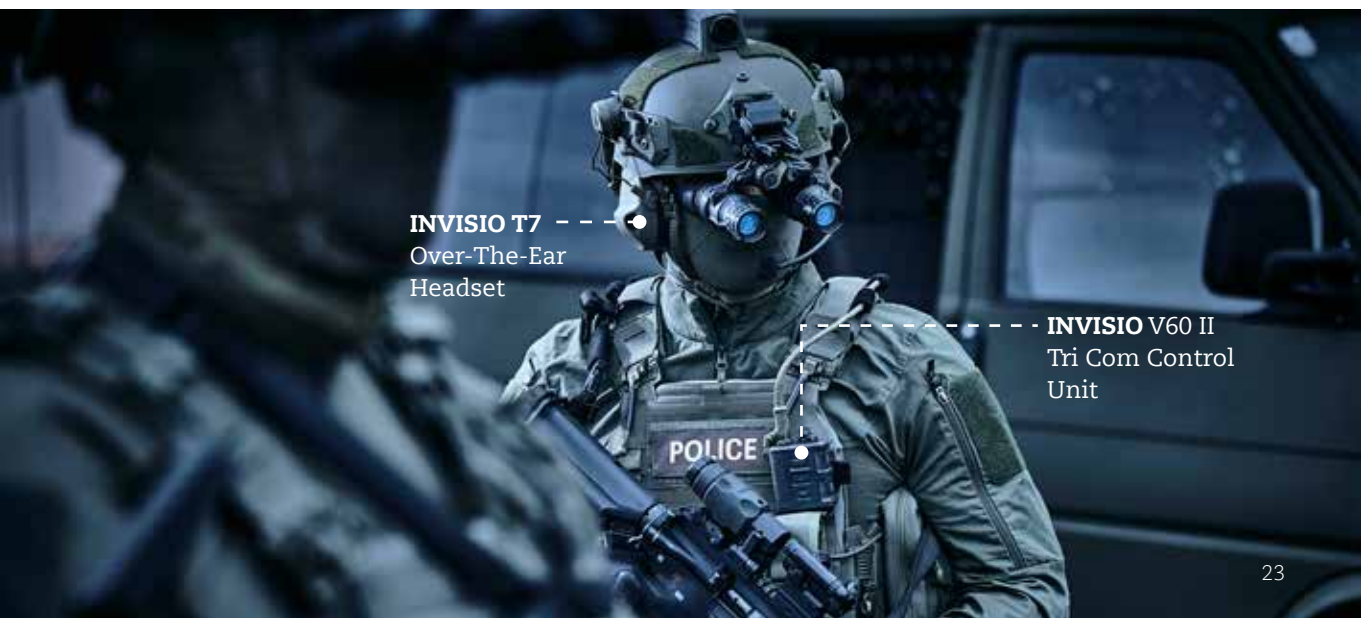
## PS30 Power Supply

- Power supply for mounting on radio cable or direct connection.  
Uses AA battery.



## Gas Mask Splitter Cable

- Cable for connecting gas mask microphone with an INVISIO control unit.



INVISIO T7  
Over-The-Ear  
Headset

INVISIO V60 II  
Tri Com Control  
Unit

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## About INVISIO

INVISIO develops and sells advanced communication systems with hearing protection that enable professionals in noisy and mission critical environments to communicate and operate effectively. The company operates under two brands, INVISIO and Racal Acoustics, combining insights in acoustics and human hearing with broad engineering know-how in software, materials technology and interface. Sales are via the headquarters in Copenhagen and sales offices in the USA, France, the UK, Italy and Thailand, as well as via a global network of partners and resellers. INVISIO's registered office is in Stockholm, Sweden, and the company's share is listed on Nasdaq Stockholm (IVSO).

[www.invisio.com](http://www.invisio.com)

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# INVISIO®

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