



Bridging  
audio, data  
and power



**INVISIO V60 II ADP**

The ultimate warfighter hub and PTT

**INVISIO®**

# INVISIO V60 II ADP

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### Introduction

For dismounted soldiers in the field, communication is key. But the nature of that communication has changed as technology develops and is no longer limited to audio.

For the dismounted soldier today, communication means data as well as audio. But when those operate separately, the result is more devices, more cabling, and heavier burden.

The challenge is to create a communications system that bridges audio, data and power, giving maximum capability whilst reducing the burden on soldiers on the battlefield.

### The Challenge

Dismounted soldiers are increasingly connected - to each other as well as to their headquarters or command centres. That communication has evolved from audio-only using radios, to an array of mission-specific data, from maps to images and more.

Such data-focused communication relies on separate interfaces via an End User Device (EUD), allowing personnel to transmit and receive images, location information and messages - saving time and improving decision-making.

“Previously everything was communicated through voice, but we are seeing more and more communication being sent via data. This means a lot of things that took a long time before can be done much faster now, thereby increasing soldiers’ situational awareness, making more efficient, faster decisions.”

*Jonas Burup Dahl, DSP & Acoustics Team Leader at INVISIO*

“Previously everything was communicated through voice but we are seeing more and more communication being sent via data. This means a lot of things that took a long time before can be done much faster now, thereby increasing soldiers’ situational awareness, making more efficient, faster decisions”, explains Jonas Burup Dahl, DSP & Acoustics Team Leader at INVISIO.

However, an additional EUD brings an added burden for the soldier on the ground, carrying extra weight, including power sources for extra devices, and complicating cable management. There has also previously been a completely separate architecture for power and data.



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For INVISIO’s team, the answer was simple. A system that could cater for growing demands on communications systems - and accompanying data bandwidth and power demands - while also reducing complexity and making the system work efficiently for users.

### The modern warfighter needs

- Comms beyond audio
- Battle Management System
- Advanced multi channel radios
- More data bandwidth
- More power



How do you bridge audio, data and power to optimize warfighter safety and efficiency?

“We saw a benefit in merging these together, and connecting them so that the audio signals could interact with data and vice versa”, explains Dahl.

### Introducing INVISIO V60 II ADP

The result is the V60 II ADP, an advanced PTT and warfighter hub that bridges audio, data and power, providing more functionality and flexibility in communications, whilst integrating systems and data.

The system is MIL SPEC compliant and proven to withstand some of the most extreme environments, from high altitudes and low temperatures to extreme heat environments, as well as being fully submersible to 20 m for two hours.

Most importantly, the V60 II ADP enables audio cues from the EUD to the headset as well as distributing power to EUDs.

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“It provides a modern warfighter with more functionality but less devices by integrating systems and data. It's basically adding more capabilities with less, bridging audio data and power, but doing that with less cables, devices, weight and complexity”, says Jakob Novrup Bengtson, Product Manager at INVISIO.

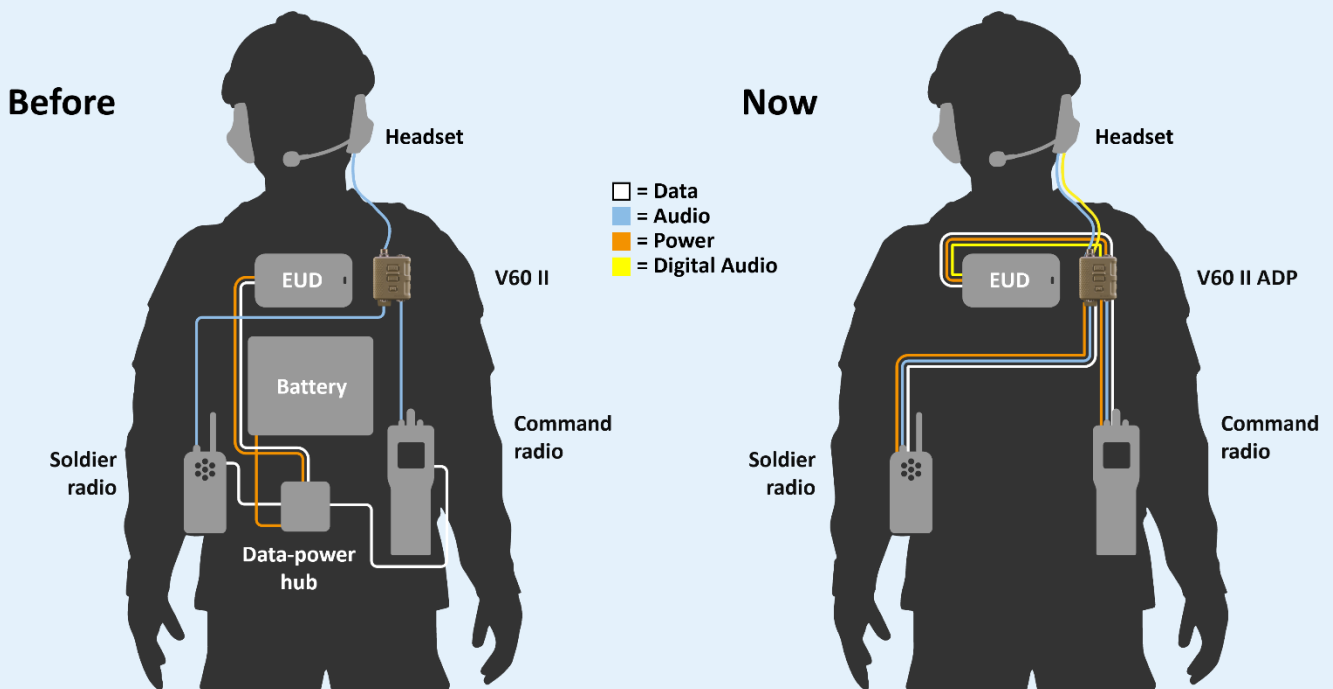
The V60 II ADP builds on previous iterations of INVISIO’s V-Series, delivering double hearing protection of 42dB SNR / 34dB NNR with hear-through capability, as well as providing automatic adjustment of volume from received audio to surrounding sound levels.

It uses AI and digital signal processing to filter out noise and increase speech intelligibility by 30%, ensuring situational awareness is as high as possible.



*The V60 II ADP builds on previous iterations of INVISIO’s V-Series using AI and digital signal processing to filter out noise and increase speech intelligibility by 30%*

The ADP works as a hub, integrating radios and End User Devices (EUDs), reducing the need for additional power, as well as the number of connections and cables.



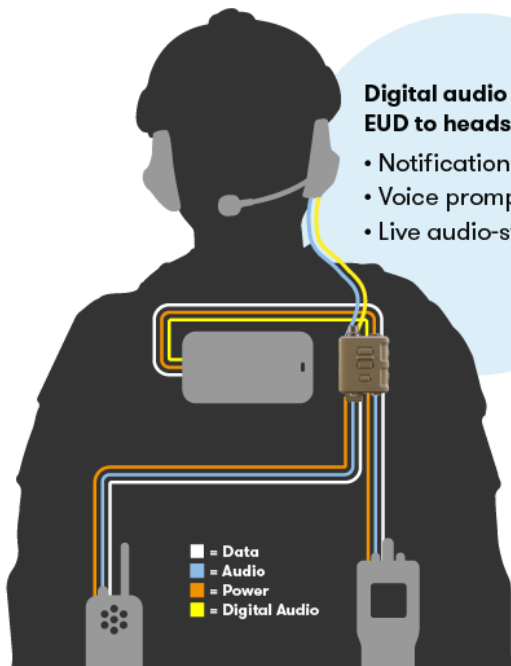
*INVISIO V60 II ADP – bridging audio, data and power - providing more capabilities with less devices and complexity.*

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### Integrating analogue and digital

The V60 II ADP is also unlike any other system in its ability to interface the analogue audio world with the digital audio world, allowing soldiers to receive audio prompts via their headsets without having to access their EUD screen.



Such capability is particularly useful on covert missions or while operating at night.

It also reduces the need for individual headsets for radio communications and data-driven communications, allowing an integrated approach, reducing equipment burden on personnel.

“We’re trying to reduce the number of times soldiers need to look at the EUD and get more of that into the headset. They can also connect devices to this EUD, either physically or through Bluetooth, such as sensors or drones.

But today, they cannot hear what's going on because they don't have a headset that can pull all of that up. They can see video links, but they cannot enable the audio. They have to have two headsets and have one on top of the other one. We can provide them with a headset where they can communicate with the EUD but they can still connect to a vehicle intercom system or a radio - we still have the analogue audio that they can connect to. And thereby they can work in both of these environments”, explains Bengtson.

### Solving the power problem

The V60 II ADP builds on the modular, flexible nature of INVISIO’s systems, allowing the addition of other comms devices, as well as additional power sources. It can also be added to existing INVISIO headsets, allowing armed forces to upgrade their communications systems cost-effectively and efficiently.

“The major thing is that if you have a headset, ADP can make it work with digital audio even if it is an analogue version. So, if you have our systems today, you can reuse the headsets you have.”

*Jakob Novrup Bengtson, Product Manager at INVISIO.*

The flexibility of INVISIO’s systems means they can also be tailored according to different soldiers’ roles.

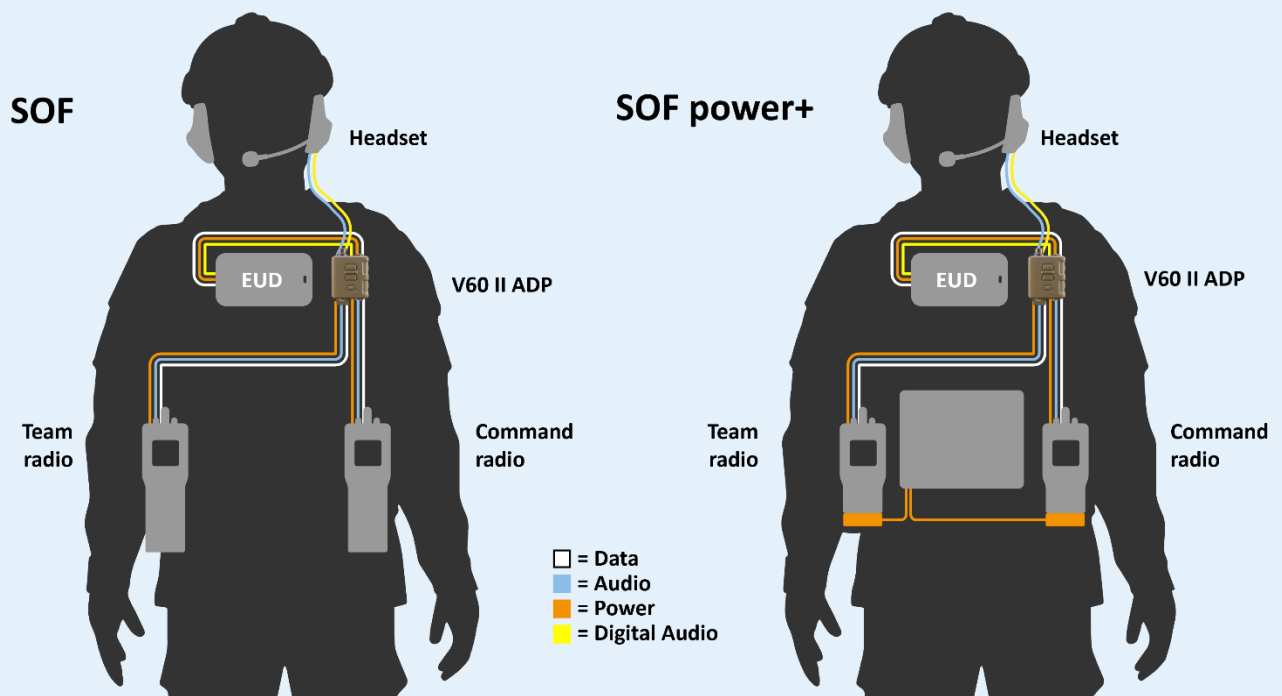
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INVISIO has also addressed the power issue, meaning in many cases extra power sources do not have to be carried by soldiers. That means the ability to utilize the connected radios to power the control unit and EUD with no extra power source, as well as leaving extra power available for other connected devices and peripherals, depending on set-up and requirements.



*User scenarios examples featuring a light set-up and a set-up requiring more power.*

“You can go extremely light. We can still add some of the capabilities back if needed, but as a soldier you have more options. Power requirements will vary depending on how many devices are involved and what the mission is, but you have a lot more flexibility with this system”, explains Bengtson.

**The INVISIO V60 II ADP builds on the V-Series Gen II, bridging audio, data and power to provide unparalleled capabilities to dismounted soldiers, giving maximum capability whilst reducing the burden on soldiers in the battlefield.**

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#### **About INVISIO**

INVISIO offers cutting-edge personal communication and hearing protection systems. The systems enable users to operate and communicate safely and clearly in all environments, even under extreme conditions, such as loud noise, heat, and underwater. INVISIO systems consist of headsets and advanced control units that interface to a wide range of communication devices. The systems provide hearing protection while maintaining the natural level of situational awareness. Sales are made via the headquarter in Copenhagen and sales offices in the USA, France, Italy as well as a global network of partners. INVISIO is listed on Nasdaq Stockholm (IVSO).

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

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