

# TECHNICAL SPECIFICATION



## Sonis® Comms Headband Ear Defenders

Sonis® Comms Headband Ear Defenders with Bluetooth® Wireless Technology / AEB081-5A7-N00



### DESCRIPTION

Sonis® Comms is a powerful communication tool, providing group intercom and active hearing protection for safe teamwork in high-noise environments. Embedded DMC® (Dynamic Mesh Communication) technology creates an autonomous private network for seamless team communication.

The headsets are user-friendly and intuitive to operate via ergonomic buttons on the earcups, hands-free technology, the desktop configuration tool, and JSP Comms mobile app. Sonis® Comms combines comfort and design features established in the development of the Sonis® range with cutting-edge wireless technology to deliver the ultimate protection and unlimited connectivity.

### OPTIONS

Sonis® Comms Headband Ear Defenders (AEB081-4A8-N00)

**Sonis® Comms Headband Ear Defenders with Bluetooth® Wireless Technology (AEB081-5A7-N00)**

### SAFETY STANDARDS

EN 352-1 • EN 352-4 • EN 352-6 • EN 352-8



JSP Limited, Worsham Mill, Minster Lovell, Oxford OX29 0TA, England.

Tel: +44 (0)1993 826050 / Fax: +44 (0)1993 824411 / Email: sales@jsp-safety.com / Web: www.jsp-safety.com

Do Not Publish without written permission from JSP Limited. Contact copyright@jsp-safety.com. Information correct in the United Kingdom at date of issue and may be subject to change. Any third-party machine and automated translations processed by users may have inaccuracies and should not be relied upon.

Page 1 of 4 / Issued 18 Jan 2025 / Copyright 2018 - 2025. JSP Limited. All Rights Reserved.



## SPECIFICATIONS



### Mounting Headband

Criterion Level (H)  
>110 dB Level 10

Criterion Level (L)  
>110 dB Level 10

Cup Material  
ABS

Adjustable  
Yes

Hygiene  
Hygiene Kit

IP Rating  
IP54 (Sonis® Comms is rated IP54 when in a complete assembly and worn on the user's head)



Minimum Temperature  
-10°C



JSPCheck  
Yes



SNR  
34 dB

Criterion Level (M)  
>110 dB Level 10

Range  
3km (dependent on local legislation, terrain, structures, physical obstacles and number of units connected to the network/group); 800m (users can travel up to 800m from another connected headset)

Head Band Material  
TPE



Recyclable  
Yes

Battery Type  
Rechargeable Li-ion, 2000mAh, 3.7V, 7.4Wh



Maximum Temperature  
+55°C



BSI Kitemark  
Yes



Product Weight  
539g

## FEATURES



### DMC® Technology

Sonis® Comms uses DMC® (Dynamic Mesh Communication) technology powered by Cardo to establish a wireless mesh intercom system. The dynamic and self-healing network enables teams to move around freely, and allows team members to leave and re-join the network without interrupting the group connection.



### 100% Autonomous Network

Autonomous intercom system enables effective team communication in remote locations with no internet or mobile phone coverage.



### Full Duplex Communication

Full duplex system allows all users to speak without waiting for transmissions to end, making sure no messages are lost or cut off.



### Strength in Numbers

Each Sonis® Comms headset emits a signal, acting as a mini base station, to strengthen group connection with every member added.



### Medium-Range Connectivity

Teams can communicate at a range of up to 3km. Users can travel up to 800m from another headset and maintain connection. \*Range may be affected by local legislation, terrain, structures, physical obstacles and number of units connected to the network.



### Out of Range Notification

Sonis® Comms notifies the user when connection to the group network is lost and reconnects automatically once back in range.



### Emergency Alerts

Emergency alerts enable users to contact teammates for assistance hands-free from Sonis® Comms headsets.



### Multi-Channel Comms

Groups can use separate channels, enabling multiple teams to work and communicate independently in the same location.



JSP Limited, Worsham Mill, Minster Lovell, Oxford OX29 0TA, England.

Tel: +44 (0)1993 826050 / Fax: +44 (0)1993 824411 / Email: sales@jspsafety.com / Web: www.jspsafety.com

Do Not Publish without written permission from JSP Limited. Contact copyright@jspsafety.com. Information correct in the United Kingdom at date of issue and may be subject to change. Any third-party machine and automated translations processed by users may have inaccuracies and should not be relied upon.

Page 2 of 4 / Issued 18 Jan 2025 / Copyright 2018 - 2025. JSP Limited. All Rights Reserved.





### Self Hearing

Audio feedback allows the user to hear their own speech over background noise, for confidence in voice communications.



### Cellular Extension

With the cellular extension feature, two remote groups can connect to a shared network, creating an intercom system for up to 30 users.



### Level-Dependent

Level-dependent attenuation amplifies safe sounds, such as speech and warning signals, and attenuates high noise to produce a sound output level of 82 dB at the ear.



### Passive Protection

Sonis® Comms headsets provide passive attenuation to an SNR level of 34 dB (Headband) / 30 dB (Mounted) for protection against harmful noise.



### Two-Way Radio

Radio connectivity and built-in PTT button allow seamless integration with PMR systems. Two-way radio sharing transmits radio communications to an intercom group.



### Low Power Consumption

Sonis® Comms operates with low power consumption for long battery life, offering over 9 hours continuous use with all features enabled.



### Voice Recognition

The boom microphone detects and isolates speech for clear, hands-free communication. To mute, simply move the mic to the upright position.



### 'Hey Sonis'

Voice activation engine allows the user to control the headset by saying 'Hey Sonis' followed by an instruction for easy hands-free operation.



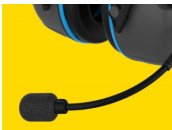
### Compatibility

Sonis® Comms Mounted are tested and certified for use with EVO® helmets, and fully compatible with EVOGuard® visor systems for complete above-the-neck protection.



### Adjustable Fit

The earcups can be pivoted and adjusted to obtain the perfect fit. Stainless steel arms provide even distribution of pressure for a secure fit and high levels of protection.



### Boom Microphone

Boom microphone is lightweight with voice-recognition software. To mute, simply move the mic to the upright position.



### Comfort

The force exerted by the headband and pivot arms works together with the cushion surface area, providing the optimum pressure for comfort throughout extended use.



### Ergonomic Design

Headsets are reversible with large ergonomic buttons. Wear in either orientation for easy left- or right-handed operation, overcoming problems with limited dexterity.



### Hygiene

Earcups, cushions, headband and adaptors are easy to wipe clean. Hygiene kits enable users to replace cushions and foam inserts using a simple click to fit system.



### Quick Setup & Maintenance

When switched on, Sonis® Comms automatically establishes an autonomous network connection. The JSP Configuration Tool makes it simple to set up a whole site in moments. Devices are easy to charge and keep clean, with a range of spares available to maintain the modular system.



### Language Options

Select language for system menus and 'Hey Sonis' voice activation engine features from a wide range of built-in options.



### Device Settings

Control microphone sensitivity and audio playback settings for Sonis® Comms headsets with the JSP Configuration Tool desktop app.



### Group Manager

Use the desktop app to manage groups, creating intercom networks that connect automatically when devices are switched on.





### Simple Charging

Sonis® Comms Lithium-Ion battery is easy to charge from PC or mains using the USB-C cable provided. Fast charging for full battery in 3h from flat.



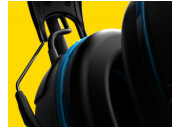
### Effortless Maintenance

Sonis® Comms headsets are effortless to maintain with modular design and a wide range of user-replaceable spares.



### Powerful

Sonis® Comms is a powerful communication tool, providing group intercom and active hearing protection for safe teamwork in high-noise environments. Embedded DMC® (Dynamic Mesh Communication) technology creates an autonomous private network for seamless team communication.



### Intuitive

The headsets are user-friendly and intuitive to operate via ergonomic buttons on the earcups, hands-free technology, the desktop configuration tool, and JSP Comms mobile app. Sonis® Comms combines comfort and design features established in the development of the Sonis® range with cutting-edge wireless technology to deliver the ultimate protection and unlimited connectivity.



### Bluetooth® Wireless Technology

Sonis® Comms with Bluetooth® wireless technology integrates calls and audio playback from a mobile device. Connect the headset to a smartphone for seamless mobile communication and entertainment audio features.



### JSP Comms App

The JSP Comms free mobile application provides a smartphone interface for setting up and operating Sonis® Comms headsets. Use the app to set up a network, make calls, and manage connectivity and audio options.



### Entertainment Audio

Entertainment features for music streaming and other audio playback. Sound output is limited to a safe level within the headset to prevent hearing damage.



### Emergency Calling

Speed-dial emergency calling ensures help is always on hand. Enter the relevant emergency number in settings for direct dialling from Bluetooth® enabled Sonis® Comms headsets.

## RANGE



## DOWNLOADS

[Image Pack \(ZIP\)](#)

[doc-sonis-comms.pdf \(PDF\)](#)



JSP Limited, Worsham Mill, Minster Lovell, Oxford OX29 0TA, England.

Tel: +44 (0)1993 826050 / Fax: +44 (0)1993 824411 / Email: sales@jgpsafety.com / Web: www.jgpsafety.com

Do Not Publish without written permission from JSP Limited. Contact copyright@jgpsafety.com. Information correct in the United Kingdom at date of issue and may be subject to change. Any third-party machine and automated translations processed by users may have inaccuracies and should not be relied upon.

Page 4 of 4 / Issued 18 Jan 2025 / Copyright 2018 - 2025. JSP Limited. All Rights Reserved.

