

TECHNICAL SPECIFICATION



Sonis® Comms Headband Ear Defenders

Sonis® Comms Headband Ear Defenders / AEB081-4A8-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@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Do Not Publish without written permission from JSP Limited.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 1 of 4 / Issued 29 Feb 2024 / Copyright 2018 - 2024. 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 29 Feb 2024 / Copyright 2018 - 2024. 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.



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.



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.



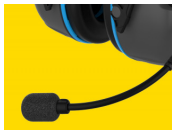
Voice Recognition

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



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.



Boom Microphone

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



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.



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.



Device Settings

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



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.



Passive Protection

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



Low Power Consumption

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



'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.



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.



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.



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.



Language Options

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



Group Manager

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



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

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

Do Not Publish without written permission from JSP Limited. Contact copyright@jspafety.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 3 of 4 / Issued 29 Feb 2024 / Copyright 2018 - 2024. JSP Limited. All Rights Reserved.





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.

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@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 4 of 4 / Issued 29 Feb 2024 / Copyright 2018 - 2024. JSP Limited. All Rights Reserved.

