

Genesis-I Communications Headset

SONIC
COMMUNICATIONS

The Genesis headset system offers a unique solution to providing high quality audio communications, combined with ambient hearing protection from its customised Earmould fitting.

Its low profile design allows the headset to be utilised with most types of protective headgear used for Emergency Services, Military and industrial applications, removing the need for integral helmet headset installations.

In addition to providing a fitting method that ensures stability and security of the headset whilst worn, the personalised Earmould gives a high degree of comfort, along with passive hearing protection for the wearer, to comply with Health and Safety Legislation when operating in high noise environments.

As an alternative to a personalised Earmould, the Genesis headset is supplied with a left or right hand side generic Earmould, which offers a slightly reduced level of hearing protection, while retaining a comfortable fit.

The headset design combines a high performance earpiece transducer element for efficiency, wide dynamic range and high fidelity received audio, with a close talking pressure gradient microphone capsule, to ensure a high signal to noise ratio under even the most difficult ambient noise conditions. and receive audio quality is not effected by the change in fitting method.

Other products available within the Genesis equipment range includes receive only devices, which utilise the same customised Earmould as used with the communications headset.

The receive only version can be supplied terminated with either 2.5 or 3.5mm moulded plugs, for connection to conventional remote speaker microphones, or terminated for direct fitting to the radio, to provide a comfortable and secure method of radio reception under all levels of ambient noise.

Sonic Communications (Int) Ltd is able to provide a service to carry out personal ear impressions (necessary to produce the customised Earmould), or to provide training for existing in-Force personnel to carry out this work.

For further details on the Genesis range of communication headsets, please contact our Sales Office.



Specification Summary

Earphone	
Impedance:	32ohms
Sensitivity:	105dB for 1mW +/-3dB @ 1KHz using IEC-318 coupler
Nominal Power:	20mW, max power 50mW
Microphone:	
Type:	Pressure gradient electret
Sensitivity:	-57dB +/-4dB (re 1v/0.1Pa)
S/N Ratio:	35:1,
Supply:	1.5 - 9v dc. 1d 0.5mA

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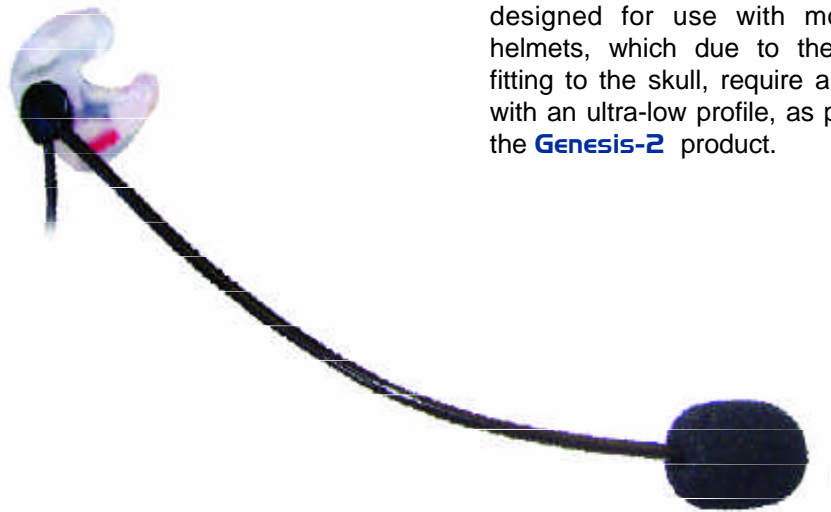
Genesis 2

Communications Headset

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The **Genesis** headset system offers a unique solution to providing high quality audio communications combined with ambient hearing protection, when used with its customised Ear Mould fitting.

Its low profile design allows the headset to be utilised with most types of protective headgear, as used for Emergency Services, Military and industrial applications, removing the need for integral helmet headset installations.



Headsets can be supplied with both short boomed omni-directional or extended boom pressure gradient microphones for use in high noise environments.

Genesis-2 has been specifically designed for use with motorcycle helmets, which due to their closer fitting to the skull, require a headset with an ultra-low profile, as provided by the **Genesis-2** product.

Combined with the use of personal customised Ear Moulds to provide hearing protection from wind and road noise, the system can be provided in either a single or dual receive configuration, complete quick-release nylon lanyard. Connectors can be supplied, fitted to the headset assembly, to interface with all types of overt or covert communications installed motorcycles.

The ear-microphones in **Genesis-2** provide a single transducer, which if worn in conjunction with a customised Ear Mould, provide a combined microphone/earpiece headset suitable for use in low to medium ambient noise levels.

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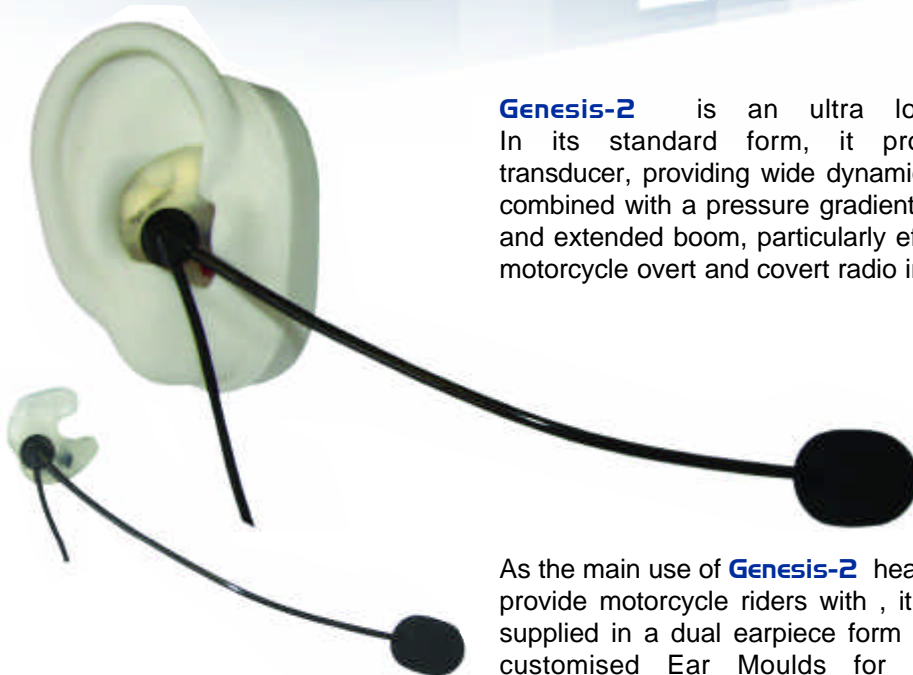


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Genesis 2

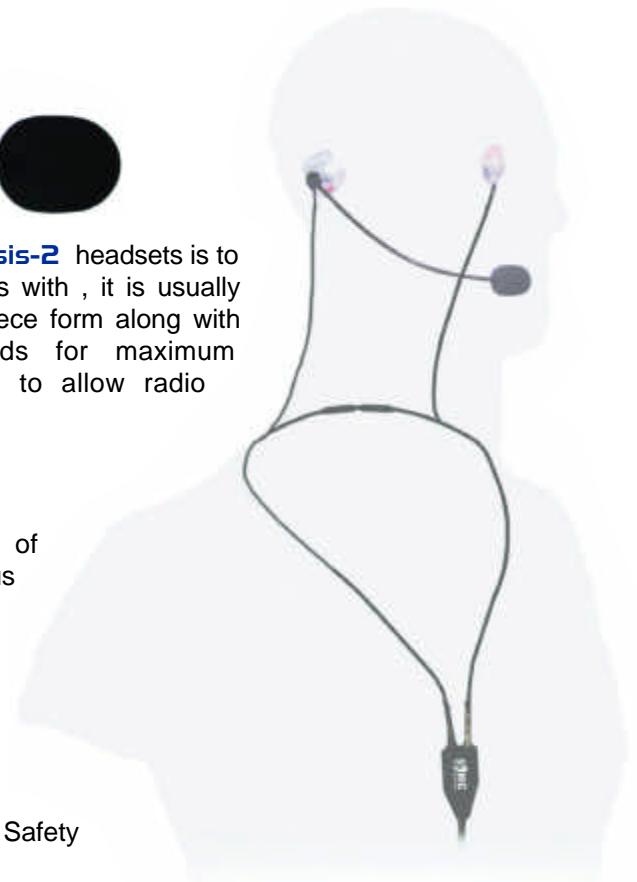
Communications Headset

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Genesis-2 is an ultra low profile communications headset. In its standard form, it provides a single miniature earpiece transducer, providing wide dynamic range and a high receive audio quality, combined with a pressure gradient microphone transducer fitted to a flexible and extended boom, particularly effective when used with high performance motorcycle overt and covert radio installations.

As the main use of **Genesis-2** headsets is to provide motorcycle riders with , it is usually supplied in a dual earpiece form along with customised Ear Moulds for maximum hearing protection and to allow radio reception at high speed.



The headset can be supplied terminated to a wide variety of connector types, to interface either directly to a radio, or to a Nexus or BT420 "Flexistalk", as fitted to motorcycle radio installations.

Genesis-2 headsets are already in widespread use with the Emergency Services, providing an alternative to integral motorcycle helmet communications headsets, which in addition to providing improved transmit and receive audio quality, also provide rider hearing protection, to allow compliance with Health & Safety regulations.

Specification Summary

Earphone :

Impedance : 760 OHMS
Sensitivity : 103dBV @1KHz

Microphone:

Type: Pressure gradient electret
Sensitivity -57dB +/-4dB (re 1v/0.1Pa)
S/N Ratio: 35:1,
Supply: 1.5 - 9v dc, Id 0.5mA

