

AUDIO RESPONSE COMMUNICATIONS PRODUCTS

COM-SYS COMMUNICATIONS KITS FOR FIREFIGHTING HELMETS

Audio Response COM-SYS helmet communications kits comprise a leather covered moulded polycarbonate panel which mounts on the headband of a firefighting helmet. They are fitted with a bone conduction microphone and a speaker and provide excellent speech quality when connected to a portable radio via an INT-COM series interface.

MICROPHONE

Audio Response COM-SYS kits use a patented dynamic device, known as a Miniature Inertial Transducer (MIT), as a microphone.

Due to the unique design of the MIT, it has a flat response across the voice spectrum from around 600 Hz to 7 kHz. Accordingly the speech quality is considerably better than that obtained from systems using piezoelectric devices.

Although the response of the microphone is flat, the response of the human skull is not. The COM-SYS helmet kits and associated INT-COM interfaces appropriately modify the signal to take account of the skull's effect, providing natural sounding speech.

Due to the nature of the microphone, it provides a high level of rejection of background noise. The system provides clear communications in ambient noise levels up to 120dB SPL.

SPEAKER

The unit employs a speaker mounted alongside the user's ear. Unlike ear worn speakers, these are a non-intrusive device, eliminating the health and safety issues associated with ear worn devices. Both the microphone and speaker are waterproof.

MOUNTING

In order to retain the safety certification of the helmet, the unit mounts on the headband with both the speaker and microphone outside the shell.

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