



DID YOU KNOW?

THE DIFFERENCE BETWEEN WINDPORTING AND NOISE-CANCELLING MICROPHONES?

Communicating in high wind or in loud environments causes problems with speech interpretation and audio clarity when trying to transmit a message. Two accessories which greatly enhance voice clarity and communication efficiency are Motorola's windporting and noise-cancelling microphones. Defining the difference between the two will help you realise which accessory is right for your business, relieve listener fatigue and enhance your communication systems efficiency.

Windporting microphones

In exposed environments, users of conventional microphones will often experience disruption in voice clarity, when transmitting in windy environments. Wind moving past the microphone unit has the potential to disrupt safety or business critical messages.

The trademark design of Motorola's windporting microphone's, created a solution that cancelled the mechanical effects that wind has on the microphone. Through research and field testing, Motorola determined the positioning of the microphone on the unit and the size of the microphones opening port, to protect the microphone from the mechanical movement caused by wind flow onto the microphone membrane.

Any industry which relies on communicating in environments exposed to wind can benefit from clarity of voice transmission. The construction industry, mining industry and shipping industry are all examples of environments where windporting is critical for effective communication between workers.

Noise-cancelling microphones

Loud ambient noise environments pose a challenge for many industries because the noise is detrimental to clarity of voice and message transfer in communication systems. Conventional microphones don't have the technology in place to stop high ambient noise overriding speech or the distortion created by loud noise when transmitting audio.

A revolutionary technology was designed called the noise-cancelling microphone which allows speech to be transmitted clearly in high ambient noise environments. Noise-cancelling acoustics utilise a series of directional microphones on the unit that are designed to eliminate ambient noise coming from both sides of the unit (front and back).

The microphone unit itself has two microphones which are positioned, one on each side of the unit. When loud ambient noise is received on one side of the microphone it is also received on the other side of the microphone and these noises cancel each other out. This leaves voice as the only audio that is transmitted through the microphone.

Benefits of this technology are recognised over many industries, which rely on clear communication in loud environments for safety and to conduct their business. Industries such as construction, mining, security (at a rock concert) and airports are examples of where these technologies really stand out as a critical application.

Benefits for your work place

A benefit of both these devices is to cut out listener fatigue, which occurs when poor audio quality creates a strain for the listener to hear, directly affecting team productivity and message reception. Where communication is vital for workers to communicate not only efficiently but safely.

Both accessories are suited to differing environments, where noise-cancelling microphones cancel out high ambient noise, windporting microphones cancel out the noise that is created by wind flow over the microphone unit. Where clear and effective speech transmission is critical to business communication, these two Genuine Motorola accessories, allow workers to get on with the job safely and effectively.

To recognise these benefits in you communication system and to help you get the message across with clarity, contact your Motorola accessories account manager.

Genuine Motorola Accessories are built to the highest quality standards to ensure maximum performance and improve workplace safety. Accelerated Life Testing simulates five years of hard use in real life for shock, vibration, dust, humidity and sealing so we can back all Genuine Motorola Accessories with a one year warranty on parts and labour.