



DID YOU KNOW? The difference between windporting and noise-cancelling microphones?

Motorola microphone technology can benefit your workplace

Communicating in high wind or in loud environments can cause problems with speech interpretation and audio clarity when transmitting a message. Two products which can enhance voice clarity and communication efficiency are Motorola's windporting and noise-cancelling microphones. Defining the difference between the two will help you select which accessory is right for your business by relieving listener fatigue, enhancing efficiency of your communication systems and increasing overall productivity. Remote speaker microphones or heavy duty headsets are two types of accessories that utilise either windporting or noise cancelling technology.

Windporting microphones

In windy and exposed environments, wind moving past the radio's accessory microphone potentially disrupts the voice clarity of critical messages. You may have experienced this personally while having a conversation using your "trusty" mobile phone, when the person you are speaking to asks you to move out of the wind.

The patented design of Motorola's windporting microphone, creates a solution that reduces the mechanical effect that wind has on the microphone by using specifically designed housing to protect the microphone's membrane.

Click here to hear the difference a windporting microphone makes to the quality of transmission or go to: <http://www.powerlit.com/rsm/le/>.

Industries such as construction, mining and transport can benefit substantially from this feature.

Noise-cancelling microphones

Loud ambient noise environments can also interfere with clarity of voice communications. Most microphones work well when the speech level is well above the background noise level. In loud conditions however, the user needs to raise their voice to be heard above the background noise. This not only becomes tiring, but is sometimes impossible.

To help counteract this, Motorola has developed the noise cancelling microphone. Two strategically placed ports on the microphone unit enable the microphone to determine the correct audio to transmit. Figure 1 shows how the microphone can detect which noise is voice and which is ambient noise and therefore which noise to cancel out.

Figure 1 shows the response pattern of the noise-cancelling microphone.

Imagine a situation, where a worker was about to make a vital mistake in a high ambient noise environment but was quickly stopped by a clear instruction over his radio from his observing supervisor. The noise-cancelling technology allows the transmission of instructions to be heard clearly and concisely, possibly saving a life.

Industries such as construction, government, mining, security (ie a music concert) and

transport are examples of where this technology can really stand out as a critical application.

Benefits for your work place

The benefit of both these features is that they reduce listener fatigue which occurs when having to strain to hear a message. This can have a direct impact on team productivity and efficiency due to messages needing to be repeated.

Both wind porting and noise-cancelling microphones have their own set of benefits for specified industry applications. It is important to note that due to the inherent design requirements of each, you cannot have both technologies in a single microphone. So if users need to operate in both a loud and windy environment, noise cancelling is probably the better option. Why?. Because in most cases you can turn away from the wind but you can't always escape loud noise.

Could your workplace benefit from one of these technologies?

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

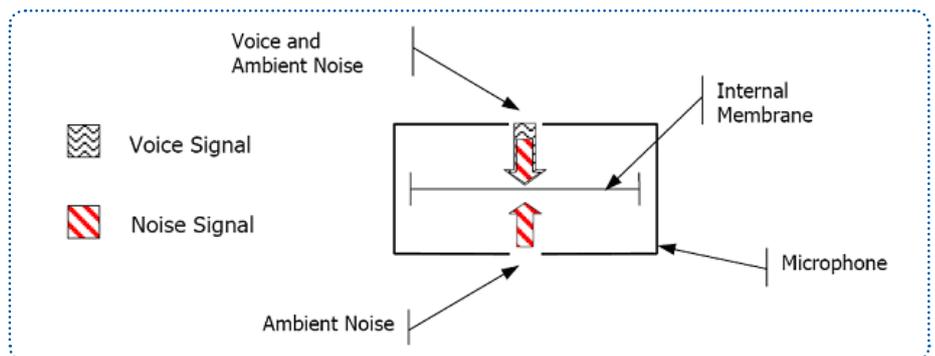


Figure 1

GENUINE MOTOROLA ACCESSORIES WORKING AS ONE WITH YOUR RADIO, TIME AFTER TIME.

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