

Tecton

Microphones



The tecton microphones have been specially designed for ease of installation and use, featuring a rugged metal chassis and connector.

They incorporate a low noise power circuit, so you do not have to worry about providing an external power source (they can be directly powered from the Audio Darlex for example) and can be used in balanced or single ended configurations. The balanced method could be used for audio installations where the monitoring equipment is kilometers from the microphones themselves. The microphones come in two types, low-noise and compressed.

Low-noise

This variant features a low-noise amplifier, which immediately reduces the effect any noise can have on the audio signal.

An active filter helps attenuate any unwanted noise

Features:

- Low-noise amplifier
- Dual pole active filter
- Switchable gain control
- Can be surface mounted

Compressed

The compressed microphone uses an advanced technique to vary the gain depending on the audio volume. If a loud source is heard which may normally cause distortion, the gain is reduced to allow full signal integrity. However, if a quiet source is present the gain is increased you can hear it better.

Ideal for interviews.

Can be surface mounted.

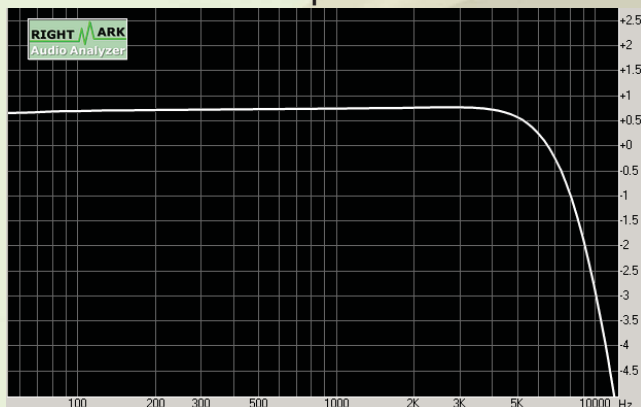
Technical Information

These microphones have been developed to take the stress out of installation, they do not require any batteries or special voltage sources to run as they will re-regulate almost any source to provide themselves with a smooth power supply. The balanced and single ended transmission means you don't have to worry about the installation environment until you put them in (BalunRx required for balanced operation). Balanced transmission is recommended when microphones will be used an appreciable distance from the recording device or in noisy environments (e.g. routing in an office). Audio Darlex has balanced receiver built in. The fact that they supply line level also means you do not need the added expense of a microphone amplifier. Both the microphones use a rugged black box with latching mini-xlr connector which provides a solid connection.

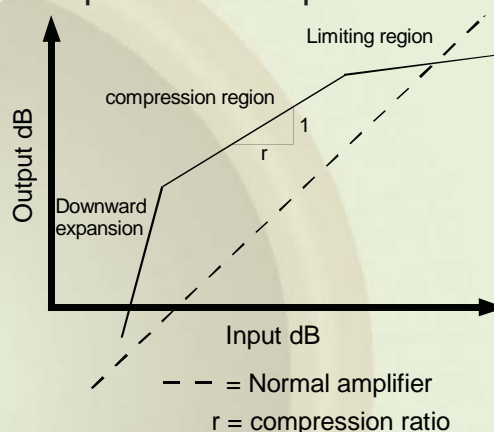
Characteristics

Description	low-noise	compressed
Frequency Response	10Hz - 10kHz	10Hz - 22kHz
Output	Line Level or Balanced	Line Level or Balanced
Power	10-20Vdc (15mA)	10-20Vdc (15mA)
Output Impedance	50 ohms	50 ohms
Gain adjust	10dB switchable boost	-
Compression ratio	-	5:1 / 10:1 switchable
Sensitivity	-35dB@1KHz (0dB=1V/ Pa)	-37dB@1KHz (0dB=1V/ Pa)
Max input	120 dB (SPL)	120 dB (SPL)
Pickup pattern	Cardioid	Cardioid

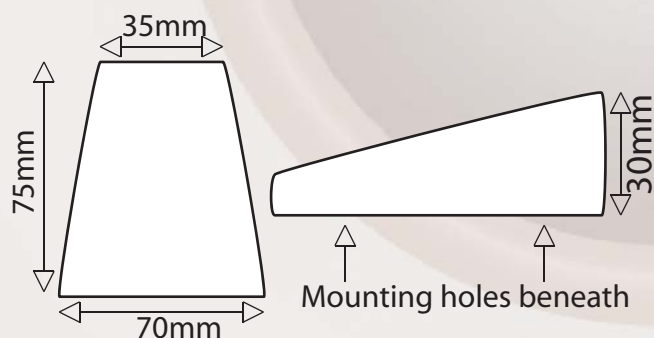
Speech optimised frequency response of low-noise microphone



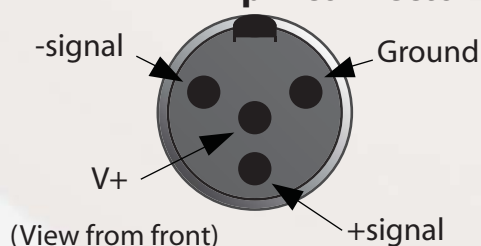
Input - Output characteristics of compressed microphone



Dimensions



MINI XLR 4-pin connector

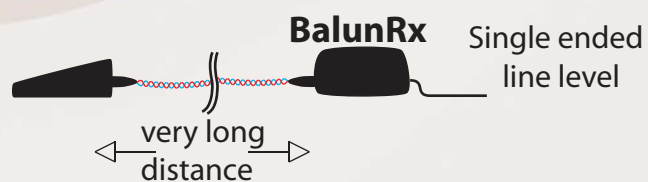


Examples of applications

Single ended or balanced operation with Darlex



Conversion to single ended



Part numbers

Low-noise microphone	MIC03
Compressed microphone	MIC04
BalunRx	BALUNRX01

For further details on the Microphones or any other products please contact...

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