

Norsonic Nor140

Reference Tone

Used to reference the correct audio playback level for the listener.







Reference Tone

The reference tone is a sound recording made on the device by pressing the CAL button. It's an internal sound linked to the internal gain and input sensitivity of the microphone.

The sound recording has a continuous pink noise sound level of around 70dB which can be played back through the speakers or headphones as the reference level.

The sound recording when played back is much like the sound you hear when trying to tune your radio to the correct frequency. This noise will be played back through the speakers which we will reference our human ear and sound meter to.







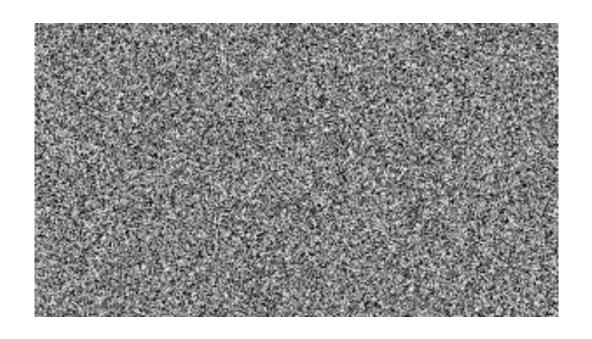




Pink noise is like the sound of the radio tuning.



Pink Noise









Adjust the volume of speaker until 70dB is reached at the listening point.

Pink Noise











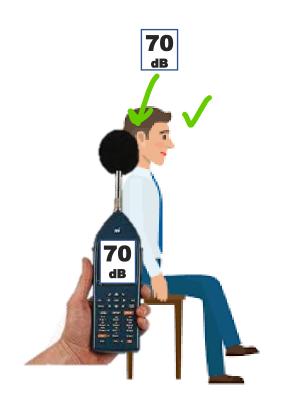


Adjust the volume of speaker until 70dB is reached at the listening point.











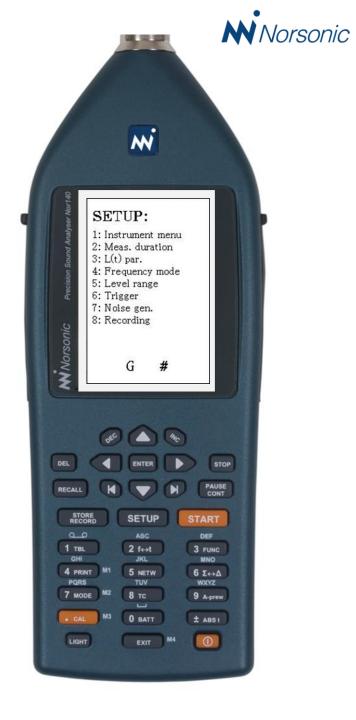


Adjusting the sound level of the speaker to the reference tone (pink noise) helps us perceive how loud or quiet a recording is in the context of the complaint.





Press SETUP





Press **Button 1**

for the 1:Instrument Menu





Press **Button 8**

for the **8:Reference Tone**





Reference. Tone: ON

Type of noise: PINK

Gain volume: -48dB

Excitation. Time: 30 seconds

Freq: 1.0kHz





Press ENTER to return





Press **ENTER** to return to

The 'Measurement Screen'





Press the **START** Key

Press **Button 6** to got to

The 'Level vs Time'





Press the .CAL button

to activate the reference tone

You will notice the sound level will increase to 70dB. It will end automatically after 30 seconds.

The sound is noise and can be played back in NorReview or Windows Media Player.





Download the measurement to

NorReview





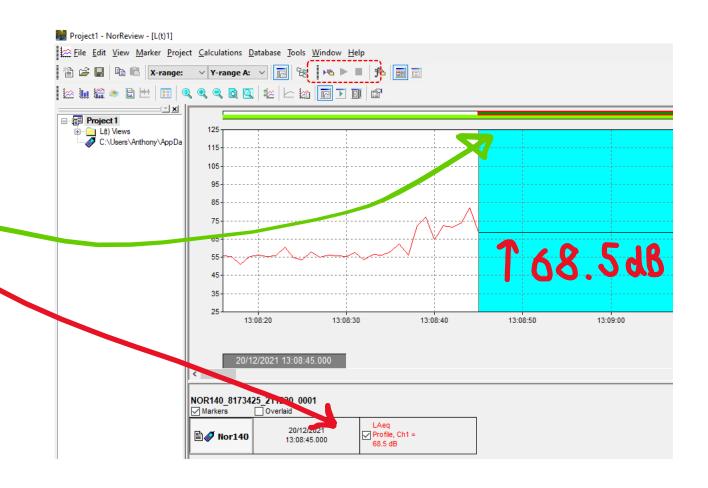


The 'Playback in NorReview'

Find the audio recording reference tone (pink noise) and play it back through the speakers.

Note the output level.

It might not be exactly 70dB.



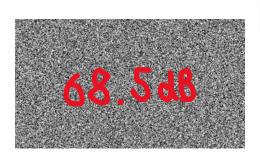




The 'Output Level'

Place your sound level meter at the listening point.













The 'Playback'

Playback the sound and adjust the speaker volume until the sound meter reads the output level you noted.











The 'Playback'

68.5

The sound level meter might not read exactly 68.5dB, but should be as close as reasonably possible without any external influence (background noise).







