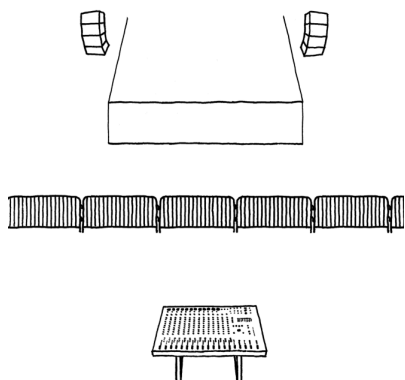


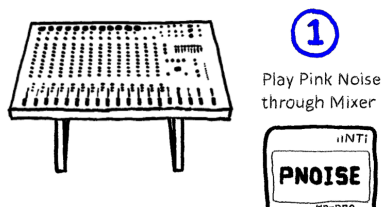
How To Comply with Sound Limit Regulations



Local authorities or governments may specify limits which you should not exceed during the event. e.g. DIN15905 in Germany, SLV in Switzerland.

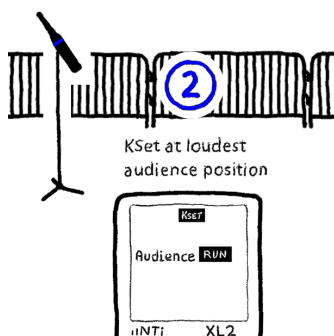
This 10-Step process provides you with the tools to remain within the specified limits and produce comprehensive reports.

To control the sound level in a show you have to know the level at the loudest position in the audience (near the barrier, closest position to the PA). Normally it is not practical to place a microphone at this position, so you place it at another measurement position. The difference in level between these two positions is corrected by the XL2 by you setting the K factors (KSet).



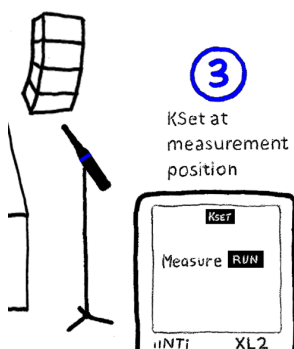
Play Pink Noise through Mixer

Play Pink Noise at a constant level (around 80 dB) during Steps 2 and 3.



KSet at loudest audience position

Choose XL2 SLMeter Kset and press RUN at the loudest audience listening position (near the barrier, closest position to the PA).



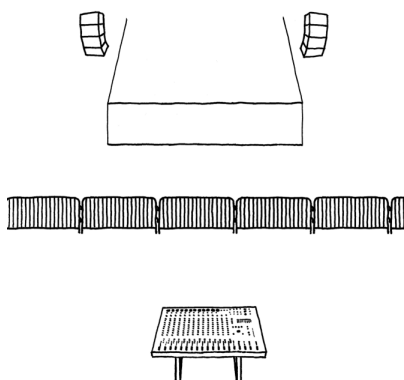
KSet at measurement position

Press RUN at measurement position (1 meter from PA).

Hint: Use the ASD cable to ensure that the XL2 reads the sensitivity of the mic.

Hint: You are responsible for the sound levels from the PA and not the audience. So always choose a measurement position where the PA will be louder than the audience position (e.g. 1 meter from the PA). Otherwise, the noise of the audience will be amplified by the k factor, and an enthusiastic crowd cheering near a measurement microphone can easily exceed your limits.

How to Comply with Sound Limit Regulations (Continue)

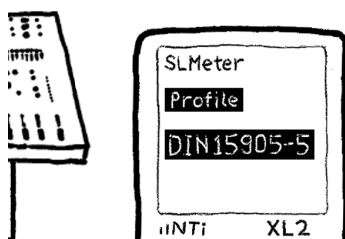


To ensure that you record the correct data values and audio files required to later demonstrate that you did not exceed the limits, Profiles are provided that configure the XL2 to measure according to the standard.

- "DIN15905-5 & Audio" Profile measures according to the German standard
- "SLV2007 & Audio" Profile measures according to the Swiss standard
- Other national regulation Profiles are available on request

4

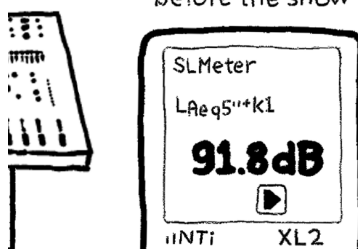
Select Profile



Select the appropriate Profile.

5

Press PLAY
10 minutes
before the show



To start logging data values and recording audio, press the XL2 PLAY button 10 minutes before the show starts.

How To Comply with Sound Limit Regulations (Continue)

6

Monitor
green light
during the show

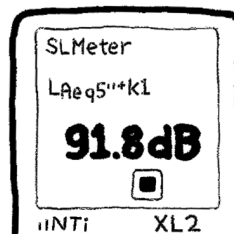


During the show, the limit LED on the XL2 indicates if you are within the prescribed limits.

- Red light - indicates that you should reduce the sound level
- Orange light - indicates that you are not yet over the limits but close to them
- Green light - indicates that you are below the limits

7

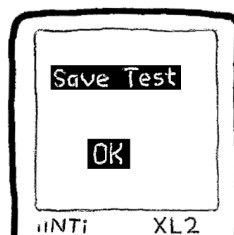
Press STOP
10 minutes
after the show



10 minutes after the show, press the XL2 STOP button to stop logging data.

8

SAVE data



Save the files on the XL2 when prompted to do so.

How To Comply with Sound Limit Regulations (Continue)

9

Copy data
to PC

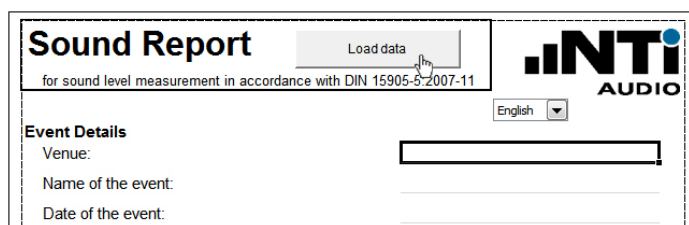
Connect the XL2 to your PC via USB and move the data and audio files.



10

Load data
into report

Load any one of the copied files into the Excel Sound Reporting Tool. Complete the report with details of the event and save the report as a pdf for later reference.



Download Reporting Tool: <http://my.nti-audio.com/support/xl2>