

# EXEL Line for Cinemas



Exel Line: Digirator DR2 with  
XL2 Audio and Acoustic Analyzer

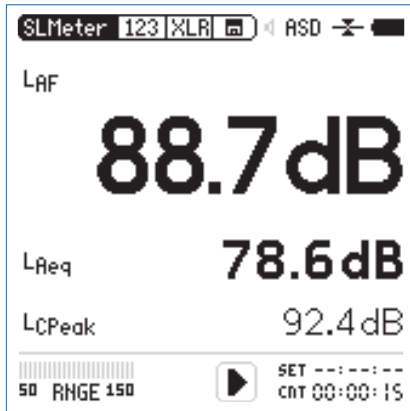


## Applications

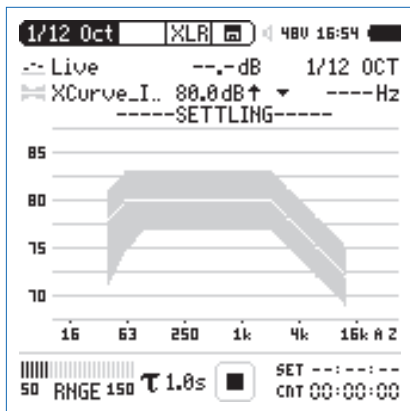
- Surround sound installations for home cinemas and professional installations
- Comparing measurement results against standardized X-Curve with passed/failed result according ISO 2969 or SMPTE 202M
- Commissioning and verification of electro-acoustic installations
- Fine-tuning high-end audio systems according individual preferences for optimized performance
- Maintenance and periodic performance check

## Advantages

- Handheld and compact design for field applications
- All measurement results for are stored for documentation to SD Card
- Calibrated audio and acoustic measurement system



XL2 Screenshot Sound Level Meter



XL2 Screenshot 1/12 Octave X-Curve Reference Spectrum with Tolerance according ISO 2969

### XL2 Analyzer Functions

- Sound pressure level SPL  
Sound levels alignment of individual speakers and setup of LFE channel about 10dB SPL higher than the surround level.
- Real time analyzer RTA  
Fine tuning the system performance with pink noise at each seating position. The reference spectra of speakers may be captured for comparative measurements, thus achieving the same sound performance of all speakers.
- 1/12 octave analysis  
Loading standardized X-Curve tolerance bands according ISO 2969 or SMPTE 202M for reference measurements with selectable 1/1, 1/3, 1/6 or 1/12 octave band resolution.
- FFT analysis  
Analysis of reflections and cancelations (comb filter effects) for improving the room architecture and speech intelligibility.
- RT60 reverberation time  
Verifies the room acoustics for optimized system performance and speech intelligibility.
- Polarity  
The left and right speakers shall be verified for the same polarity, thus achieving a broad stereo sound image.
- Delay  
Setup of acoustical delays for optimized surround sound performance.

### Digirator DR2 Functions

- Surround Sound Signal Generator  
Provides all test signals for system verification and fine tuning.



Exel Acoustic Set

Order Information	
Exel Surround Set Class 2, including XL2+M4260 and Digirator DR2	
Exel Surround Set Class 1 frequency response including XL2+M2210 and Digirator DR2	
XL2 + M4260, Class 2	600 000 340
Spectral Limits Option for XL2	600 000 376
Digirator DR2	600 000 320

For more information please visit [www.nti-audio.com/exel](http://www.nti-audio.com/exel).