

# EXEL Line for Education and Training



Exel Line: Minirator MR-PRO with  
XL2 Audio and Acoustic Analyzer



## Applications

- Schools for analog audio, digital audio and acoustics
- Presentations with online measurements
- Qualification of speech intelligibility STI-PA in class rooms

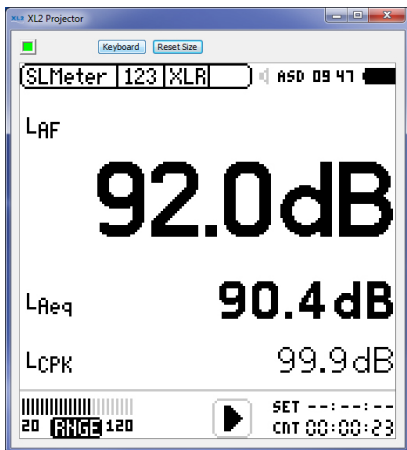
## Advantages

- Handheld and compact design for training
- Instrument screen displayed online on PC monitor
- Unmatched price-performance ratio for education institutes
- Calibrated acoustic measurement system



### XL2 Analyzer Functions

- **Projector Software**  
Displays the XL2 screen in real-time via USB on the connected PC. The virtual keyboard enables the user to control the XL2 Analyzer with mouse clicks from the PC.
- **Sound pressure level SPL**  
Measures sound levels and analyzes the acoustic spectrum, e.g. for fine tuning the performance of sound installations with pink noise.
- **1/12 octave analysis**  
Measures input spectrum in selectable 1/1, 1/3, 1/6 or 1/12 octave band resolution with logarithmic X-scaling for performance testing with e.g. pink noise.
- **FFT analysis**  
High-resolution Zoom-FFT up to 0.4 Hz steps in the frequency range 5 Hz - 20 kHz, e.g. for the analysis of reflections (comb filter effects) to improve 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.
- **Line level RMS and THD**  
Measures level, distortion (THD+N) and frequency.
- **Speech intelligibility STI-PA**  
Measures announcement systems according IEC 60268-16.



Projector Software displays XL2 screen in real-time on connected PC

### Minirator MR-PRO Functions

- Signal Generator, Cable Tester, Impedance Tester

### Digital Audio Functions

- Digital Audio Analyzer: Digilyzer DL1
- Digital Signal Generator: Digirator DR2



Exel Acoustic Set

Order Information	NTi Audio #
Exel Acoustic Set Class 2, with M4260 Measurement Microphone	600 000 400
Exel Acoustic Set Class 1 frequency response with M2210 Measurement Microphone	600 000 410
Digital Audio Set includes Digilyzer DL1, Digirator DR2 and accessories	600 000 272

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