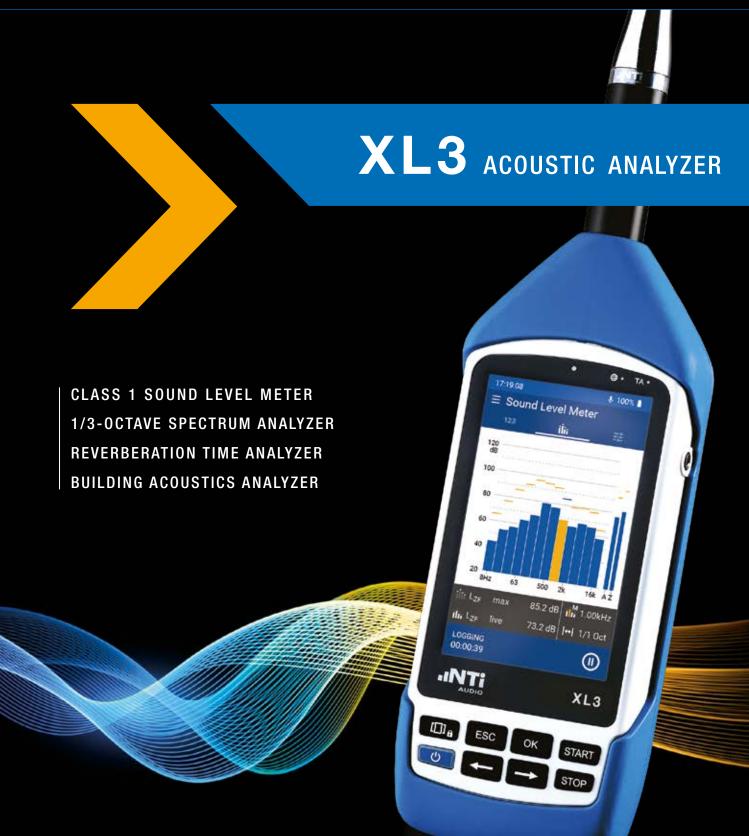


Made in Switzerland





Fully Networked

The XL3 is fully networked. The remote control interface and the built-in web server allow operation and data access from any mobile device.

New Technologies

State-of-the-art hardware and software technologies, high-performance processors and enough memory to cover all requirements, make the XL3 the ideal solution for acousticians. The unit offers a wide single range for easy usage, which is covered without any range switching.

Smart User Interface

The high-resolution 4.3-inch color touch display allows intuitive control of all measurement functions. All common operating functions are also accessible on the keypad below the display.

The Heart of Noise Monitoring

The XL3 is fully network-capable and can be connected with USB or Wi-Fi via an external router to the internet at any time for upload of data to the cloud. The binary streaming format facilitates compact data transmission over cellular networks. In addition to a large SD memory card, the XL3 also supports the connection of an external hard disk. A weather station can be connected directly to the XL3 via the SDI-12 interface.

XL3 - Acoustic Analyzer



The XL3 is a professional sound level meter and acoustics analyzer for noise measurements, room acoustics and building acoustics – optimized for the needs of the acoustician.

Sound Level Meter



The Class 1 Sound Level Meter records numerous levels in parallel over the entire measurement period. At the same time the XL3 logs the frequency spectrum and, if desired, records the audio as a way file.

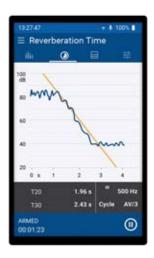
All stored measurement data is available in simple text format. Professional data evaluation and further calculations are carried out in the optional Data Explorer PC Software.

Spectrum



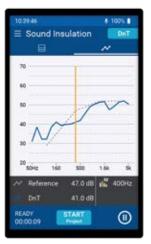
The XL3 determines the frequency spectrum with a Class 1 filter bank in octave or 1/3 octave resolution between 6.3 Hz and 20 kHz. All values are calculated in parallel. In addition, two spectra can be selected and displayed simultaneously. Both the level and the frequency axes can be freely zoomed and scrolled.

Reverberation Time



The standard reverberation time measurement determines T20 or T30 in octave bands from 63 Hz - 8 kHz. The values of a measured position or of an entire room are averaged on the XL3. The optional Room Acoustics Package extends the Acoustic Analyzer to 1/3 octave band resolution, T15 or EDT. Use either an impulse source or an interrupted pink noise as the test signal.

Building Acoustics



The optional Building Acoustics module enables direct determination of airborne and impact sound insulation, according to ISO 16283, while you are on site. Measure in the source and receiving rooms and see the sound insulation results on the display. A detailed measurement report is easy to create with the optional Sound Insulation Reporter PC Software.



TECHNICAL SPECIFICATIONS

SOUND LEVEL METER XL3+M2230 / XL3+M2340				
Accuracy	 Class 1 according to IEC 61672 and ANSI S1.4 Type-Approved configuration with TA-Option System Self-test (CIC) with M2340 microphone 			
Level	Frequency weighting: A, C, ZTime weighting: Slow, FastMin, Max, Peak, EQ, EQT, Taktmax			
Functionality	 Single measurement range: 17 dBA - 137 dB Frequency range: 4.3 Hz - 23 kHz Level limits Logging interval 1 s Voice notes (planned) 			
Audio	• Compressed (ADPCM), 24 kHz, 12 kHz			
Extended Noise Measurement Option	 Sound Exposure Level LAE Time weighting: Impulse Percentile statistics L% (broadband, spectrum) Logging 100 ms (broadband, spectrum) Audio: 24, 32 bit with 12, 24, 48, 96 kHz Event-triggered audio and data recording (planned) 			
SPECTRAL ANALYZER				
Accuracy	Class 1 according to IEC 61260 and ANSI S1.11			
Frequency range	Octave band: 8 Hz - 16 kHz1/3 octave band: 6.3 Hz - 20 kHz			
Functionality	 Filter base 10 Leq with frequency weighting A, C, Z Spectrum logging Leq, Lmin and Lmax 			
REVERBERATION TIME				
Accuracy	ISO 3382 and ASTM E2235Schroeder backward integration			
Functionality	 Octave band: 63 Hz - 8 kHz Measurement parameters T20, T30 Impulse and interrupted noise source Automatic averaging 			
Extended Room Acoustics Option	 1/3 octave band: 50 Hz - 10 kHz T20, T30, T15, EDT simultaneously Minimum trigger level Automatic room averaging of multiple positions Audio recording Decay curve (planned) 			

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BUILDING ACOUS	STICS (optional)		
Standards	• ISO 16283 and ISO 717		
Otandards	Airborne and impact sound insulation		
Functionality	 Results shown on XL3 Averaging of source and receiving room Flatness of adjacent 1/3 octave band (planned) Requires Extended Room Acoustics Option 		
Results	D, Dn, DnT and R'Chart and table		
INTERFACES			
Input	XLR balanced with 48 V phantom power		
Network	 Wi-Fi integrated (2.4 GHz) LAN via USB adapter USB-C as host or slave, USB-A as host Data and website access via USB Web server, ftp, ntp 4G/5G via optional external gateway Remote access connect.nti-audio.com (optional) 		
API-interface Option	Data and audio streamingControl, configuration & data retrieval		
Digital I/O	Connection of accessoriesSDI-12 and 1-Wire		
Memory	Removable SD card with 32 GB memorySupports external hard disk		
Further Functionalities	 Automatic microphone detection (ASD) Built-in microphone for voice notes Loudspeaker Headphone/line output: 3.5 mm jack, stereo 		
Power supply	 Removable battery (Li-Po) Battery life > 8 hours Power supply 9 VDC, USB-C 		
GENERAL			
Display	4.3" IPS color display with capacitive touch480 x 800 pixels		
Mechanics	1/4" tripod mountDevice stand		
Mechanics Dimensions			

