

Piccolo-II

Integrating Averaging Sound Level Meter

The Piccolo-II may be small but it's packed with powerful features:

Professional Grade Measurements:

- IEC 61672/ANSI S1.4 Class 2;
- Frequency Range: 20 Hz - 16 kHz;
- 2 wide Dynamic Ranges:
 - 30 dBA to 110 dBpk
 - 46 dBA to 130 dBpk

Simultaneous Recording of:

- Leq, Lmax, Lmin, Lpeak, and SEL in A, C, and Z weightings;
- LN% for selected weighting (A, C or Z);
- 31.5 Hz to 8 kHz Octave Band Spectrum;
- 400 lines FFT Spectrum.

Embedded Li-ion battery with USB charger providing:

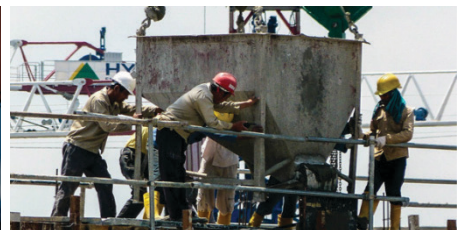
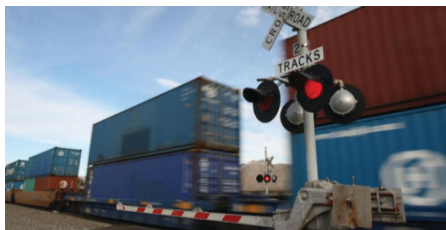
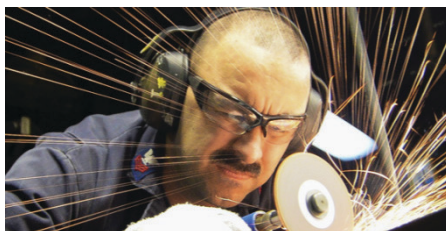
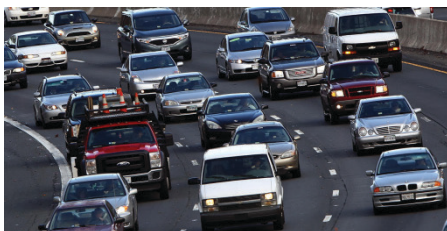
- 48 hours run-time autonomy;
- Unlimited with USB adapter.

Impressive Data Storage Capacity:

- All parameters recorded: Leq, Lmax, Lmin, Lpeak, SEL, LN%, 1/1 Oct. and FFT;
- Adjustable Averaging time & Auto-store period from 1s to 1h;
- For continuous recording:
 - up to 2 months for 5 min Leq time;
 - up to 2 years for Leq (1h)!

Ideal for:

- Environmental Noise Survey;
- Machine Noise Evaluation;
- Long-Term Noise Monitoring;
- Sound Exposure Evaluation.



Control and Analysis Software

The Piccolo-II is an advanced instrument in itself but you can extend its features using the provided software.

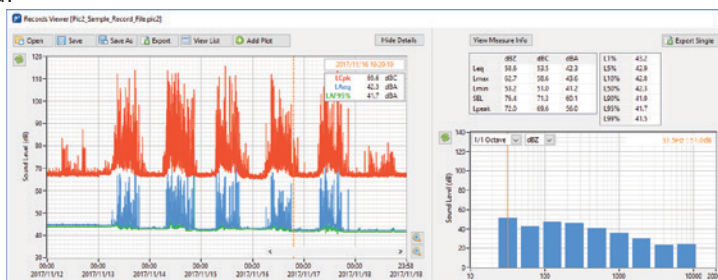


- Perform a measurement (Single or Auto-Store);
- Change Display (Live SPL, Leq, Lmax, Lmin, etc.);
- Change Measurement Setup (Input Range, SPL Time Weight, etc.);
- Change Record Duration and Menu Presets;
- Synchronize on-board Real-Time Clock;
- Download records and clear memory;
- Post-process records;
- Perform advanced spectral analysis;
- Record high-quality audio files;
- View Piccolo-II embedded Calibration certificate.

Record Post-Processing

The Piccolo-II software provides an intuitive post-processing tool to easily navigate, analyze and export your data.

- View record data as a Time History graph
- View record details and spectrum with cursor
- Export all/selected data to Excel.



Spectral Analysis

The Piccolo-II software provides an intuitive spectrum analysis tool:



- 1/1 Octave;
- 1/3 Octave;
- 400-Line FFT;
- Records all 3 spectra at once;
- A, C and Z weight;
- Live and averaged spectra.

Quality Audio Recording

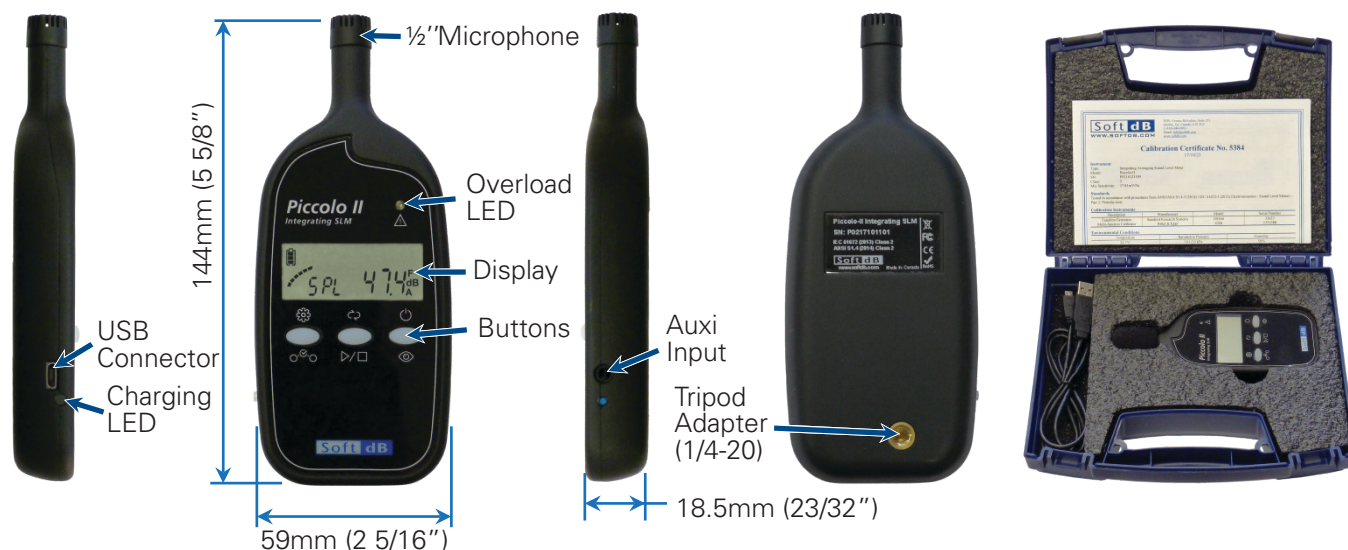
Take advantage of the Piccolo-II high quality audio processing to record high-fidelity audio files.

Technical Specifications

SOUND LEVEL METER	
Standards	IEC 61672-1 (2013) Class 2, Group X; ANSI S1.4-1 (2014) Class 2, Group X; ANSI S1.43 (2007) Type 2; IEC 60651 (1979), Amd.1(1993-02), Amd.2(2000-10) Type 2, Group X
Averaging	Exponential and Linear
Time Weightings	Slow or Fast
Frequency Weightings	A, C and Z
Input Ranges	Low or High
Sampling Rate	44.1 kHz
Measured Metrics	Leq, Lmax, Lmin, Lpeak, SEL, LN% (1%, 2%, 5%, 8%, 10%, 25%, 50%, 90%, 95%, 99%)
Peak Maximum Level	Low Range: 110 dBZpk, High Range: 130 dBZpk
Under-Range Level	Low Range: 30 dBA, High Range: 46 dBA
Electrical Noise Level	Low Range: 24 dBA, High Range: 40 dBA
Total Noise Level	Low Range: 30 dBA, High Range: 40 dBA
Resolution	0.1 dB
Microphone Nominal Sensitivity	-35dB $\pm$ 3 dB, ref 1V/Pa (17.78 mV/Pa)
SPECTRUM ANALYZER	
Standards	IEC 61260-1 (2014) Class 2, Group X (1/1 Octave), Group Z (1/3 Octave); ANSI S1.11-1 (2014) Class 2, Group X (1/1 Octave);
Averaging	Linear (Leq)
1/1 Octave Spectrum	31.5 Hz to 8 kHz
1/3 Octave Spectrum (PC software only)	20 Hz to 16 kHz
FFT Spectrum	400 lines 6 bandwidths from 17.2 kHz to 539 Hz
TIMING	
Display Refresh Rate	0.1s
Record Duration Resolution	1s
Record Duration Pre-sets	1s, 10s, 1m, 5m, 15m, 60m (can be redefined from 1s to 1h)
Real-Time Clock Resolution	1s
RECORDING	
Recording Modes	Single-Store or Auto-Store
Align on Real-Time Clock	Single-Store: No, Auto-Store: Yes
Recording Data	All Global Metrics (A, C and Z), LN% (A, C or Z), 1/1 Octave, FFT (optional)
Memory Capacity	Without FFT: 198 948 records, With FFT: 18 798 records
AUXILIARY INPUT	
Connector	Phone Jack 1/8" (Female, Mono)
Voltage Range	Low Range: $\pm$ 0.15Vpk, High Range: $\pm$ 1.5Vpk
Routing	Automatic upon jack plug connection

Technical Specifications (cont.)

ENVIRONMENTAL	
Operating Temperature	0°C to 40°C
Storage Temperature	-10°C to 50°C
POWER	
Power	70 mW (Running), 0.3 mW (Sleeping)
Battery Life	48 h (Running), > 6 months (Sleeping)
Battery Charge	5V (USB-powered)
PHYSICAL	
Dimensions	144 mm x 59 mm x 18.5 mm (5 5/8" x 2 5/16" x 3/4")
Weight	115g (4 Oz.)
ACCESSORIES	
Windscreen	35mm x 25mm (12mm hole)
USB Cable	0.9m (3') A to Micro-B
Carrying Case	213 mm x 183 mm x 62 mm (8.4" x 7.2" x 2.45")
Calibration Certificate	Tested in accordance with procedures from IEC 61672-3 (2013)



Visit www.softdb.com/products/piccolo2 for more information and online store.