

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:

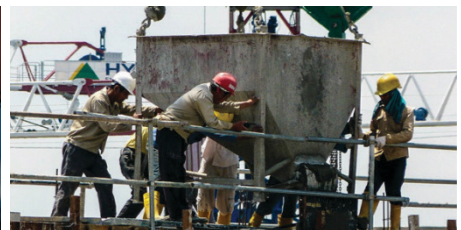
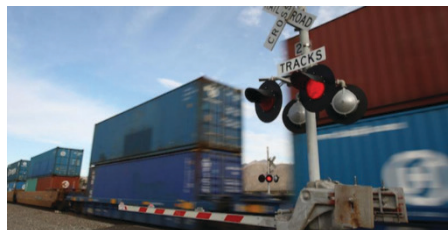
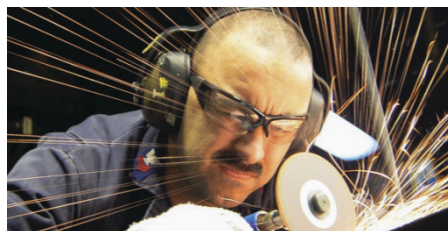
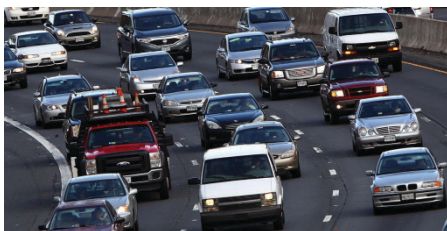
- 48 hours run-time autonomy;
- Unlimited with USB adapter.

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)!

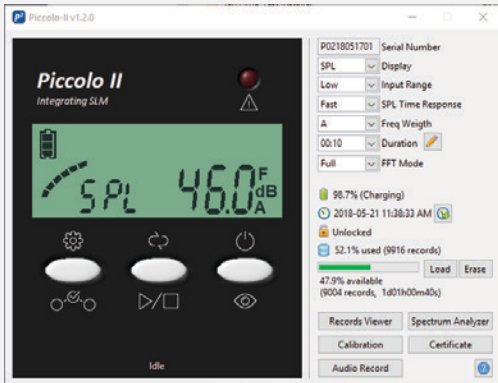
Ideal for:

- 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

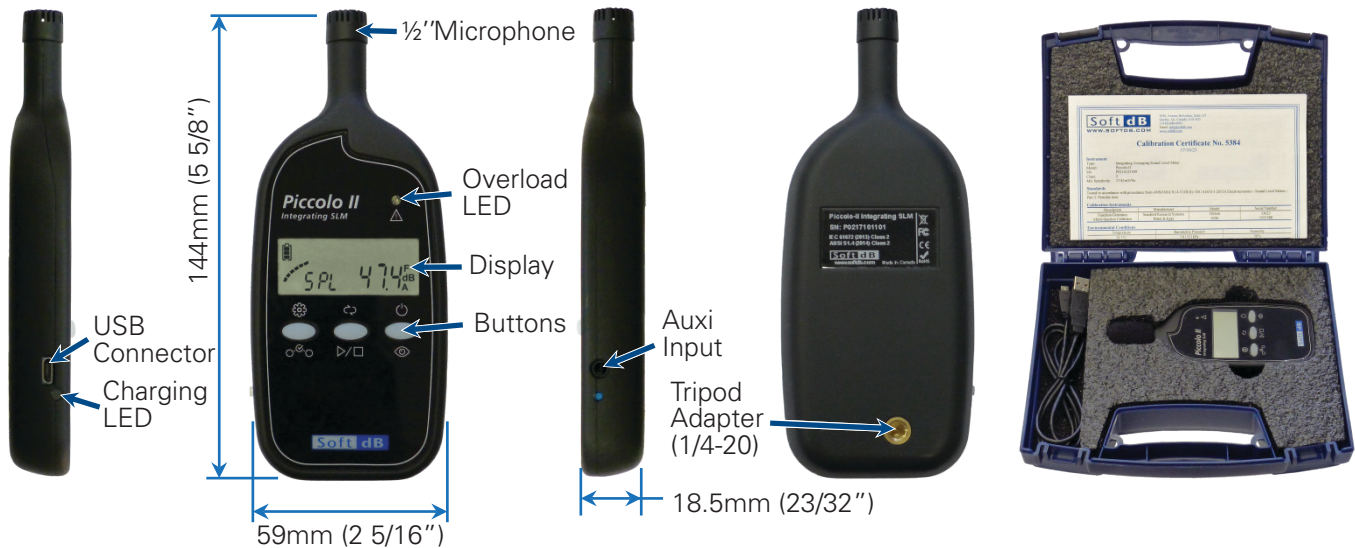
Take advantage of the Piccolo-II high quality audio processing to record high-fidelity audio files.

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.