### **MEZZO** Precision Microphone

The *MEZZO* Precision Microphone provides an innovative and cost-effective solution for professional grade acoustical measurements.

More than just a DAQ system, the DSP embedded in each *MEZZO* Precision Microphone ensures real-time signal processing.

Designed to be used with a tablet PC or any other Windows-based PC, the *MEZZO* Precision Microphone benefits from the versatility and flexibility provided by computers. This approach also allows the *MEZZO* Precision Microphone along with the *MEZZO* Noise Analyzer Module to be offered at a very competitive price.

- Noise Analyzer Module (SLM, RTA & FFT) (included)
- Noise Monitor Module (Long Term Monitoring) (optional)
- Building Acoustics Module (optional)
- Waveform Recorder and Post-Processing Module (optional)

Used along with the *MEZZO* software, the *MEZZO* Precision Microphone complies with IEC 61672 (2013).

| Specifications  |   |  |
|---|---|--|
| Microphone  | BSWA MPA221 (Class 1) <sup>1</sup><br>or BSWA MPA225 (Class 2) <sup>2</sup> |  |
| Connector   | SMB   |  |
| Peak Maximum Level <sup>3</sup>   | Low Range: 112 dB <sub>pk</sub><br>High Range: 126 dB <sub>pk</sub>         |  |
| Noise Level <sup>4</sup>  | Low Range: 22 dBA, 20 dBC, 25 dBZ<br>High Range: 32 dBA, 30 dBC, 35 dBZ     |  |
| Under-Range Limit Level⁵  | Low Range: 32 dBA, 30 dBC, 35 dBZ<br>High Range: 39 dBA, 37 dBC, 42 dBZ     |  |
| Input Range   | Low Range: 0.42 V <sub>pk</sub><br>High Range: 2.1 V <sub>pk</sub>          |  |
| Maximum Sampling Rate   | 48 kHz  |  |
| Signal Conditioning   | IEPE  |  |
| Communication   | USB 2.0 (Mini B connector)  |  |
| Dimensions  | 230 x 32 x 23 mm  |  |
| Power Supply  | USB Powered (Max 0.35W)   |  |
| 1.14" MD201 Mic with MA221 Proamp 50 mV/Pa JEC 61672 (2012) Class 1 SMP Connector |   |  |

1: 1/2" MP201 Mic with MA221 Preamp – 50 mV/Pa, IEC 61672 (2013) Class 1, SMB Connector

2:  $^{\prime\prime}\!\!\!\!\!2''$  MP215 Mic with MA221 Preamp – 40 mV/Pa, IEC 61672 (2013) Class 2, SMB Connector

3, 4, 5: Evaluated according to IEC 61672 (2013) Class 1, using 50 mV/Pa sensitivity



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#### Mezzo Noise Analyzer Module (included)

The *MEZZO* Noise Analyzer Module is the perfect tool for everyday sound level measurements and spectral analysis. With standard 1/1, 1/3, 1/24 octave real-time digital filters and FFT analysis, the Mezzo Noise Analyzer Module provides professional results with ease.

The *MEZZO* Noise Analyzer Module is included as the standard measurement module with the *MEZZO* Precision microphone.

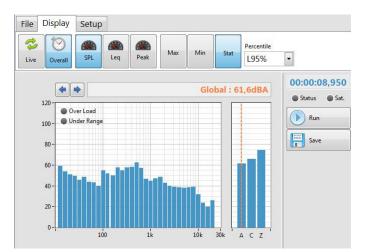
With its intuitive interface the *MEZZO* Noise Analyzer Module eliminates the need to read instruction manuals. Just connect a *MEZZO* Precision Microphone and you are ready to go!

The large and clear interface is easy to read and work with; you will never want to use a small SLM display again.

Designed with touchscreens in mind, the *MEZZO* Noise Analyzer Module includes automatic keyboards and keypads to enhance your mobile experience.

The *MEZZO* Noise Analyzer software provides class 0 digital filters and 64-bit computing offering the highest level of precision.

The *MEZZO* Noise Analyzer Module along with the *MEZZO* Precision Microphone offers a high-quality real-time analyzer with FFT capability at an unbeatable price.





| Specifications                       |  |
|--------------------------------------|--|
| Displays                             | Live and Overall   |
| Spectrums                            | 1/1 Octave (16Hz to 16kHz), 1/3 Octave (12.5Hz to 20kHz),<br>1/24 Octave (11.4Hz to 22.1kHz), or FFT (DC to 24kHz, Leq only) |
| Time Weightings (SPL)                | Slow, Fast or Impulse  |
| Frequency Weightings                 | A, C and Z   |
| Metrics (Spectrum and Global levels) | Lmin, Lmax, LN%, Leq, and Lpeak  |
| Instant Rate                         | 50 ms  |
| Standard Compliance                  | IEC 61672-1 (2013), IEC 61260 (2014), ANSI S1.4 (2014), ANSI S1.11 (2014)  |
| Minimum Requirement                  | Windows XP SP3 and later, 1.2 GHz CPU, 2 GB RAM  |

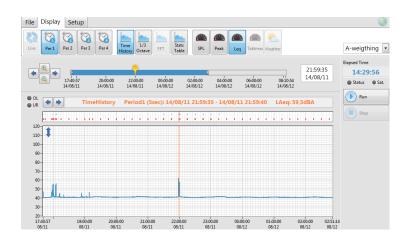


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#### Mezzo Noise Monitor Module (optional)

The *MEZZO* Noise Monitor Module is the perfect tool for remote noise monitoring stations:

- 4 distinct interval periods (1s to 24h);
- Audio records (mp3 and wave) on trigger and/or periodic;
- Continuous camera snapshots on trigger and/or periodic;
- Weather station support;
- Solar panel and power monitoring;
- FTP data transfer;
- And More!



| Interval Periods              | 4 distinct (1s to 24h)   |
|-------------------------------|--|
| SPL LMax, LMin and LN%        | Global and 1/3 Octave  |
| SPL Time Weigth               | Slow, Fast or Impulse  |
| Leq                           | Global, 1/3 octave and FFT   |
| LPeak                         | Global and 1/3 octave  |
| LTm5 (Taktmax)                | Global   |
| Global Levels                 | A, C and Z   |
| 1/3 Octave Band Spectrum      | 12.5Hz to 20kHz  |
| FFT Spectrum                  | 1000 lines over 20kHz, 10kHz, 5kHz, 3.33kHz, 2kHz or 1kHz  |
| Instant Rate                  | 50 ms  |
| Audio                         | Mp3 or Wav (periodic or triggered – 5s records to always on)   |
| Camera <sup>1</sup>           | Frame rate down to 0.5s (periodic or triggered – 5s sequences to always)                                 |
| Weather <sup>2</sup>          | Temperature, Humidity, Wind Speed and Direction, Rain, and Barometer<br>Averaged on each interval period |
| Power Monitoring <sup>3</sup> | Battery state of charge, load power consumption, and solar charging power                                |
| Notifications                 | Noise exceedance and/or power-loss, email and/or SMS   |
| FTP Data Transfer             | Text or Binary <sup>4</sup> format   |
| Standard Compliance           | IEC 61672-1 (2013), IEC 61260 (2014), ANSI S1.4 (2014), ANSI S1.11 (2014)                                |
| Minimum Requirement           | Windows XP SP3 and later, 1.2 GHz CPU, 2 GB RAM  |

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 $\label{eq:compatible} \ensuremath{\mathsf{2:Compatible}}\xspace \ensuremath{\mathsf{Var}}\xspace \ensuremath{\mathsf{Car}}\xspace \ensuremath{\mathsf{V$ 

3: Compatible with EpSolar Tracer Serie MPPT solar charge controller, proprietary cable required; contact us for more info.

4: The binary format is compatible with Soft dB web interface, contact us for more information



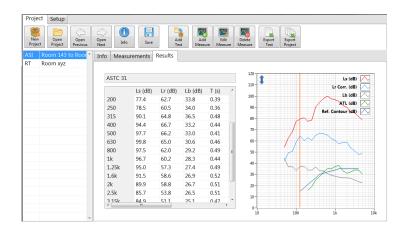
#### Mezzo Building Acoustics Module (optional)

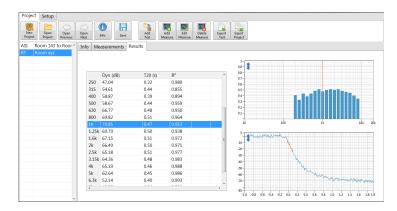
The *MEZZO* Building Acoustics Module is the ideal software module for the acoustical specialist, providing an integrated project file with on-site reports:

- Room Noise;
- Reverberation Time;
- Airborne Sound Insulation;
- Impact Sound Level;
- And More!

The *MEZZO* Building Acoustics Module uses a project file approach, combining all measurements and test reports in a single file.

This approach makes it easy to manage a large quantity of measurements and provide on-site reports. The on-site reporting allows the user not only to view the test result instantly, but also to make sure that no measurement has been forgotten.





| Specifications            |  |
|---------------------------|--|
| Room Noise                | NC, RNC, RC MKII (ANSI S12.2:2008),<br>RC, NCB (ANSI S12.2:1995)<br>NR (ISO 1996:1971)   |
| Reverberation Time        | T10, T15<br>T20, T30 (ISO 3382-2:2008)<br>T25 (ASTM E 2235:2004)<br>Interrupted noise method<br>1/1 Octave and 1/3 Octave  |
| Airborne Sound Insulation | D <sub>w</sub> , D <sub>n,w</sub> , D <sub>nT,w</sub> , R' <sub>w</sub> (ISO 140-4:1998, ISO 717-1:2013)<br>NIC, NNIC, ASTC (ASTM E 0336:2005, ASTM E 0413:2004) |
| Impact Sound Level        | L' <sub>n,w</sub> , L' <sub>nT,w</sub> (ISO 140-7:1998 - ISO 717-2:2013)<br>FIIC (ASTM E 0989:2006, ASTM E 1007:2004)  |
| Spectrums                 | 1/1 Octave (16Hz to 16kHz), 1/3 Octave (12.5Hz to 20kHz),  |
| Minimum Requirement       | Windows XP SP3 and later, 1.2 GHz CPU, 2 GB RAM  |



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