

EasyLab Capabilities

1. **Analogue System – SPL Sweep + Quick sweep.**
This function provides full-range sine-wave sweep and a quick sweep followed by HBT to generate full amplitude transfer function. Also includes SPL curve arithmetic.
2. **Analogue System – Zin Sweep + Quick sweep.**
This function provides full-range sine-wave sweep and a quick sweep followed by HBT to generate full impedance transfer function.
3. **Analogue System – Gated SPL Sweep + HBT to generate full transfer function.**
Similar to the above, but allows you to cut out room reflections. Also includes SPL curve arithmetic.
4. **Analogue System – CSD Tone Burst techniques.**
Supporting CSD techniques.
5. **Analogue System – Spectrum Analyser with 3-tone synch generator.**
Versatile measurement system with several screen display modes. Reads WAV file. Includes Sine, Square, Pink Noise, White Noise.
6. **Analogue System – 2-channel Oscilloscope with 3-tone synch generator.**
Versatile measurement system with several screen display modes. Reads WAV file. Includes Sine, Square, Pink Noise, White Noise.
7. **Analogue System – THD + IMD sweep.**
Implements steady-state and sweep modes + measurement system with 3-tone synch generator. Includes 3rd and 5th order IMD products.
8. **Analogue System – Nonlinear Parameters extraction Screen I.**
This method uses Volterra Series Expansion to extract nonlinear parameters of the driver.
9. **Analogue System – Nonlinear Parameters extraction Screen II.**
This method uses differential equations to extract nonlinear parameters of the driver.
10. **Digital MLS System – SPL measurement + Acoustic centre evaluation.**
Also includes Coloured MLS, Averaging, channel splitting, SPL curve arithmetic and many other processing functions.
11. **Digital MLS System – Zin measurement.**
12. **Digital MLS System – R-L-C.**
This measurement system uses curve fitting techniques.
13. **Digital MLS System – T/S + Enclosure Qb extraction.**
This measurement uses curve fitting techniques.
14. **Digital MLS System – Waterfalls - CSD curves.**
15. **Digital MLS System – RT60 measurements.**
The measurement implements Schroeder Integration and two methods of noise reduction
16. **Digital MLS System – Cepstral Deconvolution.**
Removal of room reflections from SPL measurements.

17. **Digital MLS System – Matching Filter technique.**

Removal of room reflections from SPL measurements.