

USBLite Hardware Platform

Software and Hardware Specifications

Stimulators and Characteristics

- ER-3A Insert Earphones.
 - Intensity: 0 - 122 dB SPL.
 - Stimulus Type: Clicks, Tones 125 Hz - 8 kHz, or user defined files.
- Bone Conductor
 - Intensity: 0 - 98 dB SPL.
 - Stimulus Type: Clicks, Tones 250 Hz - 8 kHz, or user defined files.
- 10D OAE Probe
 - Intensity: 0 - 100 dB SPL.
 - Stimulus Type: Clicks, Tones 125 Hz - 16 kHz, or user defined files.

Additional AEP Stimulus Characteristics

- Stimulus duration in μ sec or cycles.
- Stimulus Envelopes: Rectangular, Blackman, Cosine, Hamming, Hann, Bartlett, Triangular, Trapezoidal (Rise/fall time), Extended Cosine (Rise/fall time).
- Presented continuously or only while acquiring.

Available Masking options

- AEP Contralateral noise masking available either at a specified level or tracking the stimulus level.
- TEOAE Contralateral noise masking available.

EP Acquisition Modalities

- Standard ABR modality.
- Auditory Steady State Responses.

Amplifier Characteristics

- A/D Converter: 16-bit.
- Sampling rate: from 200 Hz to 40 kHz.
- Adjustable Gain.
- Set High Pass and Low Pass filters based on application (-6 dB/Oct).
- Adjustable artifact rejection level and time region.
- Set Notch Filter (-12 dB/Oct)
- Common Mode Rejection: ≥ 100 dB @ 1 kHz
- Noise Level: 0.13 μ V RMS (30-1500 Hz).
- Input Impedance: > 10 MOhms

OAE Acquisition Modalities

- Distortion Product OAE
- Transient Evoked OAE
- Spontaneous OAE

Power Requirements

5 V DC, 0.5 A
Powered using 2 USB ports.

Operating Environment

Portable equipment
Indoor use.
Operating temperature: 15 - 40 °C.
Relative humidity: 15% to 90% at 40 °C non-condensing.
Altitude: 0 - 3000 m.

Storage

Temperature: 0 °C - 50 °C.
Relative humidity: 95% non-condensing.
Atmospheric Pressure: 500-1060 hPa.

Standards Compliance

Safety Standard: EN60601-1 Class II, Type BF.
EMC Standard: EN60101-1-2.
Medical Device Directive: 93/42/EEC.

Computer Requirements

- Windows operating system.
- Minimum 4 GB RAM.
- Minimum 5 GB available hard drive space.
- Minimum XGA display (1024x768 screen resolution)
- Two free USB Port.
- Removable media, network drive, or secure internet storage site for data backup recommended.
- USB Inkjet or Laser Printer for printed documentation.

USBLite-SPCS-130227



Many Options, One Smart System

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Product Conforms with
93/42/EEC MDD