**Stimulators and Characteristics**

- **ER-3A Insert Earphones.**
  - Intensity: 0 - 130 dB SPL.
  - Stimulus Type: Clicks, Tones 125 Hz - 8 kHz, or user defined files.

- **ER-2 Insert Earphones.**
  - Intensity: 0 - 118 dB SPL.
  - Stimulus Type: Clicks, Tones 125 Hz - 16 kHz, or user defined files.

- **TDH Headphones.**
  - Intensity: 0 - 120 dB SPL.
  - Stimulus Type: Clicks, Tones 125 Hz - 12 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 μsec 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 Ipsilateral and Contralateral noise masking available either at a specified level or tracking the stimulus level.
- TEOAE Ipsilateral and Contralateral noise masking available.

**EP Acquisition Modalities**

- Standard Auditory modality including ECogG, ABR, MLR, and LLR.
- Chained Stimuli module.
- P300/MMN module.
- High Frequency option.
- Triggered eABR module for implanted patients
- Visual Evoked Potential module
- Somatosensory module
- Auditory Steady State Responses.

**Amplifier Characteristics**

- Sampling rate:
  - Standard: from 200 Hz to 40 kHz.
  - HF systems: from 160 Hz to 128 kHz.
- Adjustable Gain.
- Adjustable High Pass and Low Pass filters (-6 dB/Oct).
- Adjustable artifact rejection level and time region.
- Selectable Notch Filter (-12 dB/Oct)
- Common Mode Rejection: ≥ 105 dB @ 1 kHz,
  ≥ 120 dB @ 60/50 Hz w/ notch filter ON.
- Noise Level: ≤ 0.333 μV RMS (1-3000 Hz).
- Input Impedance: > 5 MOhms

**OAE Acquisition Modalities**

- Distortion Product OAE
- Transient Evoked OAE
- Spontaneous OAE

**Power Requirements**

- Standard Power Supply: 110-220 VAC~, 50-60 Hz, 1.3 A Max.
- Power Supply for HF systems: 100-240 VAC ~, 50-60 Hz, 3.2 A Max.

**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.