

Synergy Plinth

2, 5, 10 Channel EMG/EP/IOM Systems

Specifications

Evoked Potentials

Includes unique 5 channel amplifier option for combined pattern VEP and ERG recordings.

Amplifiers

Optically isolated amplifiers with 2, 5, or 10 channels

Input Impedance >1000 M Ω \pm 10%, < 30 pF

CMRR >110 dB

Noise < 0.7 μ V r.m.s (0.1 - 10 kHz bandwidth, inputs short circuited)

Electrode Imp. Integral to amplifier (2 channel)

Check Available at amplifier and system (5 or 10 channel)

Electrode Montaging Full software controlled electrode montaging (switching) capability (5 and 10 channel)

Temperature Input Integral temperature input with temperature probe

Data Acquisition

A-D Conversion 16 Bit ADC

Sweep Duration 5 ms to 10 s per channel (independent control per channel)

LongTrace™ Facility Continuous acquisition of up to 100x sweep duration (1000 s) for 2 Channel

Averager Modes Mean, alternating, alternating exponential, exponential and P300

Artifact Rejection Configurable per channel

Filters

Low Frequency (#-6 dB/octave) DC, 0.01, 0.1, 0.3, 1, 3, 10, 20, 30, 50, 100, 200, 300, 500, 1000, 2000 Hz

High Frequency (-12 dB/Octave) 30, 50, 100, 200, 300, 500 Hz - 1, 1.5, 2, 3, 5, 10, 20 KHz

Notch Filter 0 Hz or 60 Hz or OFF, attenuation at 25 dB minimum

Loudspeaker

Internal Speakers (10 W). Sockets for connection of external speaker or headphones.

Visual Stimulator (optional)

The Visual Stimulator operates in conjunction with an external monitor or other stimulator types

Pattern Checkerboard, horizontal or vertical bars, horizontal or vertical sinusoidal gratings

Pattern Size 8, 16, 32, 64, 128 pattern elements, nominal dependant on monitor

Contrast 20%, 40%, 60%, 100%

Fields Full field, half field (vertical and horizontal), quadrant, foveal, peripheral masking

Fixation Point Selectable

Stimulus Presentation Reversal or Onset/Offset

Monitor Types SVGA 1024 x 768 at 70 Hz

LED Goggles Direct control of LED intensity and flash duration 2-500 ms

Auditory Stimulator (optional)

Multiple Transducer Calibration Supports up to 4 different transducers with saved calibration values

Clicks Duration 0.02, 0.05, 0.1, 0.2, 0.5, 1.0 ms

Intensity 0-122 dB SPL, 0 - 110 dB HL

Polarity -ve, +ve or alternating

Tone Frequency 125, 250, 500, 750, 1k, 1.5k, 2k, 3k, 4k, 6k, 8k Hz

Pips/Tone Bursts Intensity 0 - 132 dB SPL, 0 - 120 dB HL

Envelopes Linear, Hanning, Blackman, Gaussian

Plateau (Pips) 1 - 999 cycles in steps of 1 cycle

Rise/Fall (Pips) 1 - 255 cycles in steps of 1 cycle

Plateau (Bursts) 1 - 999 ms in steps of 1 ms

Rise/Fall (Bursts) 1 - 255 ms in steps of 1 ms

Masking White Noise, Narrow Band, Ipsilateral, Contralateral or Bilateral. Intensity + 10 dB to - 50 dB relative to stimulus

Presentation Right, Left, Binaural

Microphone To talk through headphones in auditory tests

External Stimulator Interfaces

Ganzfeld Stimulator

Patella Hammer

Magnetic Stimulator

Flash Stimulator

LED Goggles

Other External Connectors

Temperature probe input

Amplifier connection

Internal Stimulator

Footswitch

EP Microphone

Deluxe Stimulator

Trigger input/output

EP Auxiliary Input

External EMG Loudspeaker

External EMG Headphones

Standard Software

Full patient database with user-configurable fields [ODBC compliant]

Protocol Wizard for user-defined test settings

On-line or off-line flexible report generation software in Microsoft Word

On-line Help, including test help; Help Yourself CD-ROMs

Patient data transfer function between systems

Networking ready; server includes database management tools

Microsoft Word, Excel, Access and PowerPoint included

Synergy Language Support

Configurable to English (UK), English (US), French, German, Italian and Spanish

Specifications, design options and terms quoted are subject to change without notice

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