

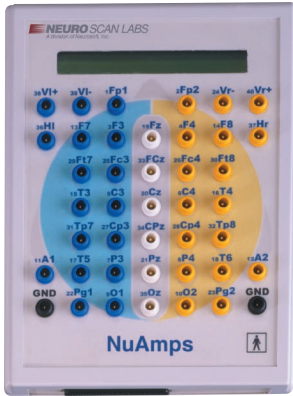
NuAmps™

**40 Channel
Digital DC
EEG Amplifier**



NuAmps™

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NuAmps is an entirely new, 40-channel digital EEG amplifier for use with the SCAN EEG/EP workstation software.

Small size, BIG features

A 40-channel NuAmps EEG amplifier with A-to-D conversion is about the size and weight of a paperback book (1.3 lbs.). Despite its size, NuAmps boasts some impressive features that you will not find in many larger systems.

Simple to Install

NuAmps is completely plug-and-play, so

installation under the Windows operating systems is simple. Also, there is no need for a special power supply, since this impressive new amplifier gets its power from the host computer through the new Universal Serial Bus (USB) interface. A single USB cable between NuAmps and the host computer is all that is required.

High Bandwidth = Versatility

NuAmps can measure from DC to 262Hz, making it suitable for use in a variety of EEG, evoked potential and ERP studies.

Compatible with SCAN Software

NuAmps is fully compatible with the SCAN EEG/EP Workstation software for research as well as the SCAN LT clinical EEG software.

NuAmps Specifications

Analog inputs	40 unipolar (bipolar derivations can be computed)
Sampling frequencies	125, 250, 500, 1000 Hz per channel, software selectable for all channels
Sampling method	40 channels sampled simultaneously
A/D resolution	22 bits
Full scale input range	±130 mV
Input impedance	Not less than 80 MOhm
CMRR	≥100 dB at 60 Hz
Input noise	0.7 μV RMS (4 μV peak-to-peak)
Bandwidth, 3dB down	From DC to 262.5 Hz, dependent upon sampling frequency selected
Interface	Universal Serial Bus (USB), full support for Plug-and-Play technology
Supported electrodes	<ul style="list-style-type: none"> • Gold, Ag/AgCl, Carbon electrodes with Touch Proof (DIN 42-802) style connectors • QuikCap Ag/AgCl electrodes with Plastic DSUB37F
Digital (TTL) inputs/outputs	Triggering through parallel port and built in trigger points (may not be possible with notebook computer; ask for details)
Quality control of electrode application	<ul style="list-style-type: none"> • Measurement of contact impedance (at frequency 30 Hz) in impedance mode • Constant monitoring of connection during recording
Isolation	Optical Signal Isolation
Display	16-letter LCD with background light, displaying amplifier status or electrodes with impedance greater than specified cutoff
Power supply and energy consumption	From USB (5V), in active mode current ≤ 500 mA, in standby mode current ≤ 20 mA
Electric safety level	According to EN60601-1(type BF), IEC601-1
Size (height x width x depth)	7.8 x 5.9 x 1.6 in. (198 x 151 x 40 mm)
Weight	1.3 lbs (570 grams)

PocketTrace Signal Generator Specifications

Output amplitude	±12.5 μV, ±25 μV, ±50μV
Frequency of sinusoidal signals	1 – 70 Hz, adjustable
Power supply	1 AAA battery, 100 hours of continuous operation
Size (height x width x depth)	3 x 2 x 0.8 in. (76 x 51 x 20 mm)
Weight (with case and battery)	0.2 lbs. (90 grams)



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