

Nicolet nEEG

Modular Neurodiagnostic System

Specifications

General Specifications

Isolated Power Supply

110/115 or 230 VAC $\pm 10\%$ input, 50 - 60 Hz
595 VA primary; 500 VA secondary
Output voltage = input voltage

Dimensions

Unibody cart approx. 119 H x 53 W x 76 D cm (47" x 21" x 30")

Weight

Unibody cart approx. 68kg (150 lbs.) (depending on model of printer)

Operating Environment (in use)

Temperature: 15.6 to 32.2° C, (60 to 90° F)
Relative Humidity: 20-80%, non-condensing
Altitude: 0-3km, (0-10,000 ft)

Non-Operating Environment (in storage)

Temperature: 17.7 to 55° C, (0 to 132° F)
Relative Humidity: 10-90%, non-condensing
Altitude: 0-12km, (0-40,000 ft)

Desktop Computer

CPU Intel® Pentium Core 2 duo 2.1 GHz technology with 2 GB RAM (min.)

Operating System Microsoft® Windows® XP Professional

User Interface Keyboard and mouse

Hard Disk 80 GB (min.)

Digital Video System 500 GB (min.) Total of 580 GB

Graphics Dual head, PCIX (optional)

Storage Devices

DVD+R/W Drive

Monitor/Display

19" LCD with Speakers (optional)

Pixel Resolution 1280 x 1024

24" Wide Aspect LCD (optional)

Printout

HP DeskJet Printer (Black, White, and Color)

Network

10/100/1000 Mb Ethernet (standard)

HL7 compatible through VLink interface

nEEG software (with v32/v44 Amplifier)

EEG Display

Sec/Page 2, 5, 10, 20, 30, 60, 120, 240, 300, 600, 1200

mm/Sec 6, 8, 10, 15, 30, 60, 120, 240

Sensitivity 10, 20, 30, 50, 70, 100, 150, 200, 300, 500, 700, 1000, 2000, 5000 $\mu\text{V}/\text{cm}$

1, 2, 3, 5, 7, 10, 15, 20, 30, 50, 70, 100, 200, 500 $\mu\text{V}/\text{mm}$

High Filters Off, 10, 15, 25, 30, 35, 40, 50, 60, 70, 100, 150, 200, 300, 500, 1000, 1500 Hz

Low Filters Off, 0.053, 0.16, 0.3, 0.5, 1, 1.6, 2, 3, 5 Hz

0.2, 0.33, 0.5, 0.625, 1, 2, 3.3, 6.2, 18.9 seconds

Notch Filter Off, 50/60 Hz

nEEG software interfaces to Nicolet Ambulatory Module. See Nicolet Ambulatory EEG product brochure w/specifications 169-435300

v32 Amplifier

Analog/Digital Converter 16 bits

ADC Resolution Voltage = 0.153 μV

DC Offset Tolerance ± 340 mV

Channels (Inputs) 32 EEG, configurable as bipolar AC (24-32), 1 configurable as DC (32)

Maximum Input Range ± 5 mV

Bandwidth 0.053 - 500 Hz

Noise < 1.5 μV pk-pk @ 0.1 - 100 Hz

Input Impedance > 100 M Ω (common mode)

CMRR at Patient Inputs > 115 dB @ 50 - 60 Hz, with active patient ground connected

Channel Crosstalk < -40 dB

Amplifier Sample Rate (under software control)

125, 250, 500, 1000, 2000

Calibration Square wave, 1, 5, 10, 20 sec period,

10, 50, 100, 1000 μV amplitude

Input Bias Current < 5 nA

Anti-Aliasing Filter Cut Off Frequency 500 Hz

Differential Input Impedance 40 M Ω

Interface to Amplifier Ethernet

Built-in Impedance and Display

Headbox Optional; no impedance display

Additional Ports

- Isolated SpO2 with X-Pod

- Photic output

- Isolated patient event button

Channel Hardware Gain 410

Deblock Yes

Auxiliary Inputs

1 Hi-level, non-isolated input for connection of external devices (e.g. CO2 monitors, etc.)

Analog/Digital Converter 16 bits

Maximum Input Range ± 2.5 V

ADC Resolution 76.3 μV

Bandwidth DC - 500 Hz

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