

Nicolet v44 Amplifier

Specifications

v44 Amplifier

System Configurations

Sleep, EEG, ICU monitoring and LTM

OR and non-OR applications

Cart mount and wall mount options

Analog/Digital Converter 16 bits

ADC Resolution Voltage = 0.153 μ V

DC Offset Tolerance \pm 900 mV

Channels (AC Inputs) 32 isolated EEG, 9 configurable as bipolar (24-32)

Maximum Input Range \pm 5 mV

Bandwidth 0.053 - 500 Hz

Noise < 1.5 μ V pk-pk @ 0.1 - 100 Hz (except channels 31, 32 and

OR channels < 2 μ V p-p @ 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 (except channels 31, 32 and OR channels > 100 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 μ V amplitude

Input Bias Current < 5 nA

Anti-Aliasing Filter Cut Off Frequency 500 Hz

Differential Input Impedance 40 M Ω

Interface to Amplifier Ethernet

Channel Hardware Gain 410

Deblock Yes

Integrated SpO2

Channels (DC Inputs) 12 non-isolated

- Analog/Digital Converter 16 bits

- Maximum Input Range \pm 5V

- ADC Resolution 153 μ V

- Bandwidth DC - 120 Hz

Additional Ports

- RS232 serial ports (2)

- Auxiliary I/O

- Panasonic Camera Control port on amplifier

- Isolated SpO2

- Isolated patient event button

- Microphone input

- C64/C128 interface

- Synchronized video input

- Picture-in-picture input (optional)

- Yolk input

- Photoc output

- Calibration output

Headboxes

v44 requires one of the following:

- Clinical headbox with built in impedance and display

- Clinical headbox with head cap adapter and built in impedance and display

- OR headbox



Compliance/Regulatory Standards

Designed, tested and manufactured to meet the following domestic (USA), Canadian, European and International Standards:

UL 60601-1 Medical Electrical Safety Standard (USA)

CAN/CSA-C22.2 no. 601.1-M90

Medical Electrical Safety Standard (Canada)

EN/IEC 60601-1

Medical Electrical Safety of Medical Equipment (International and Europe)

IEC 60601-2-26

Particular safety of electroencephalographs equipment

EN 60601-1-2 Collateral safety standard for EMC

European Community (CE Mark)

Class 2B Medical Device Directive (MDD) product certified by N.V. Kema, Arnhem, The Netherlands, Notified Body (ID No. 0344)

Patient Isolation BF

Specifications, design options and terms quoted are subject to change without notice
Advanced Technology Patent Pending

CareFusion
Middleton WI

carefusion.com

