



NATUS GRASS AS40-PLUS Comet Plus Amplifier System User Manual

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AS40-PLUS Comet Plus Amplifier System
User Manual



Grass Technologies amplifiers are world-renowned in the field of neurophysiology for their quality, reliability, simplicity, and serviceability. At the heart of the Comet-PLUS EEG is the AS40-PLUS Amplifier System. The amplifier system is designed specifically for the EEG and PS monitoring lab and combines the latest digital design techniques with years of amplifier design and manufacturing experience. The AS40-PLUS is a compact 5-channel amplifier unit. There are 40 AC channels and 4 DC channels built into the system. An optional 8-channel DC input module, patient event button, and an optional pulse oximeter allow for an additional 13 channels of data. This flexibility allows for a wide range of physiological parameters to be monitored and recorded.



The amplifier system provides for patient safety isolation, signal conditioning (physiological signal amplification and filtering), and digitization. Communications with a host computer are accomplished using 7Op/P protocol over a 10Bas8T Ethernet network or dedicated cable. A host computer, using Win software, sets the sample rate starts and stops the data transmission, and monitors the digital data. and stores it on a hard disk.

An intuitive user interface with an LCD screen is present with the amplifier.

From the amplifier itself, a user is able to implement such features as electrode impedance checking, amplifier calibration, and phobic stimulator control. Also from the LCD display a user is able to obtain information such as connection status to the host computer, and oximetry/pulse rate information when an oximeter is in use.

Personality Modules: The flexible design of the amplifier allows different Personality Modules to be used. The PM PLUS Universal Personality The module is supplied with the amplifier in Comet EEG-PLUS systems.



The UPM-PLUS has 32 referential EEG inputs, 1 reference input, 1 patient ground, and 8 bipolar AC channels for a total of 40 channels. The Personality Module's design allows for an easy disconnect/reconnect to the amplifier system. An optional SP4-PLUS, Sleep Personality Module is also available.



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Photoc Stimulator

Photoc Flash or Photoc Activation during EEG Procedures.

The Photoc Stimulator is an arm-mounted photic stimulator that is designed for photic activation of the EEG and routine clinical procedures in visual evoked potentials. The Photoc Stimulator generates flashes of white light by means of a light-emitting diode (LED array which switches on and off.

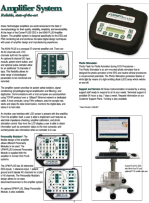
Support and Service: All Grass instrumentation is backed by a strong support staff ready to respond to all of your needs. Technical support is available 24 hours a day 7 days a week. Request information on our Customer Support Plans. Training is also available.

Patent Number 5265607



Comet-PLUS XL EEG with All-In-One PC and optional IT-10 mobile rack cart

Documents / Resources

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