

S I E S T A
802



Siesta802a Wireless Digital Amplifier

- > **A fully functional ambulatory EEG recorder; small and lightweight.**
Records for more than 80 hours with the available Extended External Battery Pack.
- > **Portable Sleep Studies are simple with Siesta802a.**
With plug-in pulse-oximeter and nasal pressure transducer modules.
- > **A perfect system for Long Term Epilepsy Monitoring** - transmit wirelessly from the bedside to a central monitoring station while giving your patient increased freedom of movement.

Revolutionary Diagnostics ... for a Wireless World

Coupled with the Compumedics ProFusion EEG or ProFusion Sleep software, the Siesta802a system provides unrivaled flexibility in a compact package weighing 300 grams (9.6 ounces).

The basic Siesta provides 32 amplified channels. With expansion modules, it can record up to 51 signals, including a variety of electrodes, sensors and transducers.

Recorded signals are exceptionally clear, with the Siesta's sampling rates up to 1024 Hz per channel and full 16-bit digital resolution.

Wireless Radio Transmission

The Siesta802a is compatible with all current 802.11 wireless network standards, including the 2.4GHz and 5 GHz bands.

With proper configuration, the Siesta System works with most wireless network infrastructures commonly in place in hospitals. Compumedics also provides a line of Access Point Modules.

The Siesta System supports WEP (40 and 128-bit), WPA1-PSK and WPA2-PSK security standards.

Technical Specifications

Siesta802a Amplifier Specifications

- 32 user-defined AC referential inputs (4DC coupled)
- Input Range 2mV to 500mV Peak-to-Peak
- Full 16-bit digitization resolution
- Internal sampling rate of 1024Hz per channel
- Storage Rates 4Hz to 1024Hz per channel
- Frequency response 0.15Hz to 210Hz; DC to 210Hz for channels 1-4 in DC mode; 0.046Hz to 210Hz for channels 29-32 in extended mode
- High pass filter 0.15Hz
- Low pass filter: four pole anti-aliasing, -3dB at 210Hz
- Software-based Digital Filtering:
High Pass: 0-12Hz in 0.05Hz steps
Low Pass: 0Hz to half of sampling rate
- Input Impedance: 10MΩ
- Input Current: Typical 10nA, 100nA Max
- Input Noise: Typical 2μVpp
- CMRR: >100dB
- Calibration Signal: 1mV square wave signal generated through software command
- Data Storage: Built-in Compact Flash Card slot supporting CF card capacity of 512MB to 128GB
- RadioLAN Card: TCP/IP protocol, 2.4GHz and 5GHz 802.11a/b/g compliant, 802.11n compatible
- Wireless Security Options: WEP (40 and 128 bit), WPA1-PSK, WPA2-PSK.

Dimensions

Size: 140mm x 76mm x 38mm, 5.5" x 3" x 1.5" (L x W x H)
Weight: 300 grams (9.6 ounces) with batteries installed

Operational Time

When powered by the internal NiMH battery pack the system will record for up to 15 hours with the radio on and up to 28 hours with the radio off.

When coupled with the Extended Battery Pack, recording times of 36 hours with the radio on and more than 80 hours with the radio off. Recording time is dependent on total data rate (channels and sampling rate settings).

Safety Standards

Complies with IEC60601-1 and IEC60601-1-2 specifications for medical electrical equipment and electromagnetic compatibility.

- FDA 510(k) market clearance
- CE 0120 Mark
- CF Patient rating

Available Components:

- > Siesta802a Amplifier
- > Custom pouch with waist belt and shoulder strap
- > External input adaptors
- > Rechargeable internal battery pack
- > External power supply/charger
- > Event button
- > Oximeter
- > Isolated inputs module
- > Pressure transducer module



Siesta802a in pouch with available External Extended Battery Pack

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