Sienna Ultimate 32 bit

EEG (Routine, LTM, Ambulatory)

Epilepsy Monitoring (EMU)

Sleep studies (PSG)

ICU Neuro monitoring

NICU/aEEG

ERP



EMS Biomedical announces the first electrophysiological amplifier on the market with an

incredible 32 bit resolution

and a sampling frequency of

1 MHz SAR technology.

The signal resolution for this technology is 50pV/bit.

The "Ultimate" in Performance



Unrivalled signal resolution of 50 pV/bit.

Integrated WiFi+LAN functionality as a standard feature



Sienna ULTIMATE

The world leading flexible system for ALL EEG and PSG applications

32 bit

NOW WITH DIAMOND SHARP 32 bit RESOLUTION



The latest model Sienna Ultimate employs the latest innovative technology to offer the most flexible range of features for ALL EEG and PSG applications within ONE "High Tech" compact Amplifier. The best keeps getting better!

- ✓ Real-time acquisition and monitoring
- ✓ Bidirectional communication over the "Ultimate"
- ✓ Real-time spike and seizure detection
- ✓ Upgradeable to 192 channels (three 64 channel modules)

Main Features of Sienna Ultimate 32 bit

- EEG Amplifier with 32/64 channels
- Built in impedance check on the 10/20 headbox
- Built in Intercom with speaker and microphone
- Built in position 3-axis position sensor
- Easy and convenient to use
- Built in SaO2 interface
- Synchronous video monitoring with dual camera mode
- LAN Interface (tethered)
- WiFi Interface (untethered)
- Internal LiIon Battery (untethered & ambulatory)
- Pouch with external battery pack for LTM ambulatory use
- 32 GByte internal memory card
- Up to 4kHz sampling frequency (per channel)
- 8 bit optional trigger input
- Roll stand, workstation or portable configurations



Sienna ULTIMATE 32 bit

Wide choice of headboxes

The Sienna ULTIMATE 32 bit EEG/PSG Amplifier can be configured with headboxes incl. LTM, PSG (Sleep), EEG+CFM, 10/20 and 32 channel bipolar EMG for Sports Medicine easily, simply by replacing headboxes on the Amplifier. The 150 gram lightweight amplifier has a patient alarm/event button as well as a body position sensor, which can transfer patient 'fall over' information to the nurse station.







Sienna ULTIMATE

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Headboxes for many applications are available:

- EEG
- 10/20
- Numerical
- PSG
- EEG/CFM
- ERP
- BM
- Cortical Stim
- and more can be customised to meet specific requirements



Software applications

- EEG record and review
- Compressed spectral array
- Compressed density array
- Brain Mapping
- Digital Full HD Video
- Cerebral function monitoring
- ICU/NICU Neuro monitoring
- Real-time spike detection
- Real-time seizure detection
- Source localization
- Sound playback
- Polysomnography (manual)
- Sleep (Auto PSG) Software Package
- PSG Trend Analysis
- ERP
- BESA Compatibility

10/20 LED headbox with Impedance check



32 bit

Workflow improvement

Workflow is critical in any busy EEG or PSG working environment. Our software allows users to move easily between different acquisition and review stations without the need for additional training for separate platforms. There are also no limits with our EEG software in the number of review stations using our review software.

No limits philosophy!

Typical Portable Solution



Trolley (height adjustable) based routine EEG workstation

(with 10/20 LED headbox)



Example of Ambulatory Use



Expertise in Medical Solutions

We have been leading innovation in Neurophysiology for over 30 years. EMS continues to provide innovative leading edge technologies for Neurophysiology diagnostic applications.

Our products are designed and developed to satisfy the most demanding customer needs and guarantee reliability, quality and flexibility in performance.

In addition to our neurodiagnostic solutions for NCS/EMG/EP/IOM, EEG, ERP, Poly EMG and PSG we offer EIS (Electrical Impedance Segmentography) in the respiratory support field as well as a full range of accessories and supplies. Choose EMS and use our professional worldwide sales, service and support network extending to over 120 countries. Our international team of trained application specialists will provide you with individual user training and post-sales support.

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