



Unique CFM Brain Monitoring



Unique CFM

Next generation wireless monitoring

Profile

CFM monitoring (also known as aEEG or CFAM) has been used in diagnosis of brain injury for many years. The Unique CFM takes this tried and tested clinical application to the next level with features that a modern Intensive Care facility needs as standard on equipment.

Using Bluetooth technology, the Unique CFM Amplifier can connect to any PC* within the clinical area removing the need for untidy wires and extra pieces of equipment in a confined space. Traces can be reviewed remotely if the PC is networked through the Hospital network, allowing for a fast second opinion looking at all the information available.

The Unique can be set-up easily for either Single Channel aEEG, or Dual Channel aEEG, offering the user both Unipolar and Bi-Polar applications depending on the patient's condition and the expertise of the user. Extra electrodes can be applied at any time to increase the information displayed. Start up is simple, and the screen can show as much or as little information as the user wishes to see – all by the click of a mouse, or a touch of the screen. An optional Video can be synchronised to record physical movement as well as Electrical Activity in the brain.





Features

- Connects to any PC running Windows*
- Network archive, review and print
- User-defined Event Markers with time stamp to aid review
- Tablet & laptop available for use in transport
- 6-hour battery ideal for portable applications
- Import, archive and review data via USB
- Automatic online report generation
- Optional synchronised video, with real-time playback
- Multi CFM, display four patients on one screen

Further Analysis

- Interfaces with Invos[†] view cerebral saturations in real time with aEEG
- Export EEG data in EDF[‡]
- Onscreen Compressed and Density Spectral Array (CSA/DSA) to measure frequency
- Display ECG, SPO2 and Heart Rate Variability Measurement alongside aEEG

Alarms

- High Amplitude** – Highlights unusual patient activity
- High Impedance** – Ensure appropriate electrode connection is established
- Bluetooth Connection** – Check communication of device

Choice of Headbox

The Unique CFM comes with a choice of 3 different Head boxes allowing users the flexibility to setup according to the local clinical parameters. The Unique can be switched between Single and Dual Channel output by adding appropriate electrodes and then a simple 'click', allowing inexperienced users to set up the monitor quickly, whilst giving options to more experienced users to do more detailed investigation.

Accessories

- Electrodes (choice of needle or hydrogel)
- Skin prep solution



Technical Specification

Unique CFM for 1 or 2 channel aEEG with battery powered Amplifier and Headbox. Software compatible with networks and PC*. Optional synchronised video facility, auto-executable review with no extra software, suitable for all patients from pre-term to adults.

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|-------------------------------|-----------------------------------------------------------------------------------------|---------------------------------|-------------------------------------|
| Power supply: | 3,6 Volt internal Lilon Battery, 5 Volt external medical grade, power supply | Sensitivity: | 1,2 μ V to 500 μ V/division |
| Dimensions: | H 190 mm, W 102 mm, D 50 mm | Low frequency filter: | 0.2 Hz - 100 Hz |
| Weight: | 450 gram | High frequency filter: | 0.2 Hz - 100 Hz |
| Environment: | Temperature: 15-35° C – Relative humidity: 20-80%, non condensing – Altitude: 0-10000 m | Notch filter: | 50/60 Hz |
| Number of channels: | 4 | EEG time base: | 10-80 mm/sec.(user definable) |
| Electrode inputs: | Special electrode headbox | CFM time base: | 6 cm/sec. |
| Input impedance: | >800 MOhm | Sampling frequency: | 256 Hz |
| Maximum input range: | \pm 12 mV | Communication interface: | Bluetooth |
| Band width: | 0.2-100 Hz | External input: | rSO2/SaO2 input |
| Noise: | <1 μ V RMS | | |
| Calibration: | Square wave generator | | |
| Impedance measurement: | Built-in impedance meter 0-30 kOhm at 10 Hz | | |