



Unique CFM



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CFM monitoring (also known as aEEG or CFAM) has been used in diagnosis of brain injury for many years. The Unique CFM from Inspiration Healthcare 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.



Single or Dual Channel aEEG

In many situations single channel aEEG is more than adequate to determine the level of injury to the brain, however, in other circumstances, a second channel would help. This can be especially useful with seizure detection in the newborn, and becomes even more important when combined with Video synchronised to the trace. Video software allows the medical staff to review physical movements at the same time as the changes in electrical activity in the brain.

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, including Spectral Analysis.

Choice of Headbox

The Unique CFM comes with a choice of 3 different Headboxes to allow for ease of use for users who have become familiar with other technologies:

Single & Dual Channel (Bi-polar & Unipolar) CFM

Headbox configuration requires 4 electrodes (ground, common reference, plus left and right side)

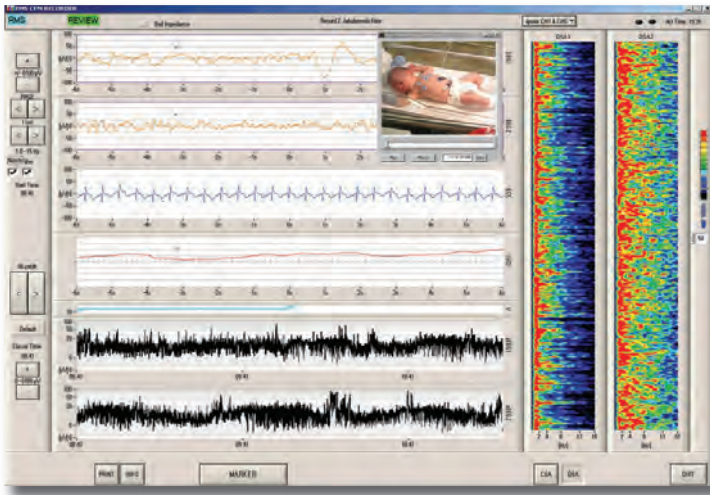
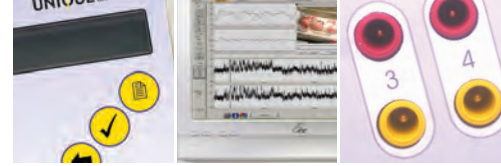
Single Channel CFM

Headbox configuration requires 3 electrodes (ground, plus left and right side)

Dual Channel (Bi-polar) CFM

Headbox configuration requires 5 electrodes (ground, plus 2 left side and 2 right side – no common reference)

Headboxes can have an additional place for electrodes to be able to monitor other parameters such as: heart rate, additional EEG etc. Additionally an extra channel is available through the PC to be able to display an input from an external monitor on the screen.



Features

- User choice of 1 or 2 channels of aEEG
- Online report writing
- Real time display of aEEG and EEG Spectral Analysis
- Optional synchronised Video facility
- Insertion of Markers to aid later review
- Battery powered lightweight amplifier ideal for portable applications
- Connects to any PC* via Bluetooth
- Password protected set-up allows changes of filters / speeds and alarms for research purposes
- Up to 4 patients monitored and displayed on one screen
- Reviewing requires no additional software – auto-executable files open on any PC
- High Amplitude alarm to highlight unusual activity

Alarms

- High Impedance
- High Amplitude
- Low Bluetooth Connection

Accessories

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



Unique CFM



TECHNICAL SPECIFICATION

General Description

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.

Power supply: 3,6 Volt internal Lilon Battery, 5 Volt external medical grade, power supply

Dimensions: 102x190x50 cm

Weight: 450 gramm

Environment: Temperature: 15-35°C – Relative humidity: 20-80%, non condensing – Altitude: 0-10000 m

Number of channels: 4

Electrode Inputs: Special electrode headbox

Input Impedance: >800 MOhm

Maximum Input Range: ±12 mV

Band Width: 0.2-100 Hz

Noise: <1 µV RMS

Calibration: Square wave generator

Impedance Measurement: Built-in impedance meter
0-30 kOhm at 10 Hz

Sensitivity: 1,2 µV to 500 µV/division

Low Frequency Filter: 0.2 Hz - 100 Hz

High Frequency Filter: 0.2 Hz - 100 Hz

Notch Filter: 50/60 Hz

EEG Time base: 10-80mm/sec.(user definable)

CFM Time base: 6 cm/sec.

Sampling frequency: 256 Hz

Communication Interface: Bluetooth

External input: zSO2/SaO2 input

Roll Stand

Weight: ~10 kg

Regulatory and quality standards

Meets the essential requirements of the 93/42/MDD, EN 60601-1:1990 +A1:1993, +A2:1995, +A13:1996, EN 60601-1-1:2001, EN 60601-1-2:2002, EN 60601-1-4:1996 +A1:1999, EN 60601-2-26:2003, ISO 9001, ISO 13485

Software Display Information

Realtime EEG Display – Realtime CFM Display – Realtime CSA Analysis – Realtime DSA Analysis – Realtime ECG Display
ECG trend analysis – zSO2 display – Digital Video option

* Must be running Windows 7, Vista or XP

ORDERING INFORMATION

DESCRIPTION	PART NUMBER
UNIQUE Dual & Single Channel (Bi-polar & Unipolar) CFM Starter Kit	EMS-1200DSK
UNIQUE Dual Channel CFM Starter Kit	EMS-BZ1200SK
UNIQUE Single Channel CFM Starter Kit	EMS-CF1200SK

Starter Kit Includes:

UNIQUE CFM Cerebral Function Monitor, Flat Panel Touch Screen Monitor, Electrode Head Box, CFM Protective Pouch, Starter Pack of Electrodes, Mains Cable and Instruction Manual.

UNIQUE Cerebral Function Monitor EMS-CF1200-00
(As above excluding touch screen monitor and head box)

OPTIONAL ACCESSORIES AND SPARES

DESCRIPTION	PART NUMBER
Video Acquisition Review S/W & USB Camera	EMS-CF1500-30
Roll Stand with LCD Mounting Bracket	EMS-LDS
Flat Panel Touch Screen Monitor	EMS-TSPC
Single Channel Electrode Head Box	EMS-CF1600-00
Single & Dual Channel (Bi-polar & Unipolar) Electrode Head Box	EMS-CF1600-10
Dual Channel (Bi-polar) Electrode Head Box	EMS-CF1600-20
Pouch for CFM Recorder	EMS-CF1700-10
Small Monitor/ Laptop including Windows	EMS-LTPC
Disp Electrodes for Single Channel Unique CFM – Colour Coded (Case of 30)	OL62056
Disp Electrodes for Dual & Single Channel Unique CFM – Colour Coded (Case of 40)	EMS-PRO-4SET
Disp Electrodes for Dual Channel Unique CFM – Colour Coded (Case of 50)	EMS-PRO-4SET/BZ
NuPrep Gel (4oz Tube)	OL62060

The details given in this leaflet are correct at time of going to press. The company reserves the right to improve the products shown.

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