The Olympic Brainz Monitor is the latest technology in cerebral function monitoring (CFM), allowing you to begin monitoring in 3 easy steps: Plug in unit, apply electrodes and start recording.
Understanding an infant’s brain health is a critical part of your treatment decisions. Use of continuous Cerebral Function Monitoring provides vital information to clinicians to assist with earlier diagnosis and treatment\(^1\) — the **Olympic Brainz Monitor** is the optimal CFM solution for fast & simple routine bedside monitoring.

**CFM**

**Olympic Brainz Monitor**

The Olympic Brainz Monitor provides aEEG (amplitude integrated EEG), real time EEG and continuous measurement of impedance in 1, 2, and up to 3 channel configurations. The kiosk style interface allows real time monitoring of brain function, providing vital data that may assist in predicting outcomes.

**Clinical Usage of aEEG Monitoring**

Medical literature reports that aEEG monitoring can be used to:

- Monitor general neurological status
- Monitor and record frequency and intensity of seizures to assist in the management of medical therapy
- Monitor during hypothermic treatment to measure the effectiveness of treatment\(^2\)
  - The time to normal trace (TTNT) has prognostic value and is a good predictor of neurodevelopment outcome in term infants with Hypoxic-Ischemic Encephalopathy (HIE) undergoing hypothermic treatment\(^3\)
- Monitor aEEG patterns to indicate the presence of sleep wake cycling in preterm infants, which is associated with better outcomes in HIE patients\(^4\) and may add value in developmental care

**Ease of Operation**

- System based *Online Help* feature provides a step-by-step guide for setting up both the system and patient prep — allowing staff to start monitoring in minutes
- Intuitive navigation allows access to information fast when you need it most
- Versatile Patient Settings
  - Easily add a channel to an existing single channel setup
  - Cross cerebral, right and left hemisphere and up to 3-channel monitoring simplifies patient hook up and provides additional data when needed

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*Trace appears normal without CFMsight*

*Same trace with CFMsight clearly shows a burst suppression pattern*

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\(^3\) Sleep-Wake Cycling on Amplitude-Integrated Electroencephalography in Term Newborns With Hypoxic-Ischemic Encephalopathy. Damjan Ovedjakar MD*, Mona C. Toet, MD*, Linda G. M. van Rooij, MD*, Alexander C. van Huffelen, MD, PhD, Floris Groenendaal, MD, PhD*, Linda S. de Vries, MD, PhD*. PEDIATRICS Vol. 115 No. 2 February 2005, pp. 327-332.

Ease of Interpretation & Collaboration

CFM Viewer
• CFM Viewer software implements similar functionality to the bedside unit, permitting review & analysis of recorded CFM data on a personal computer
• Remote Consult & Review — offers remote viewing of active recordings from any location
  • Allows remote consultation
  • Provides remote review and annotation of patient recordings with marked events appearing at bedside
• Viewer runs on Windows® XP SP2+, Windows® Vista and Windows® 7

Event Markers
• User-customizable, time-stamped markers keep track of medications administered, making the review process more efficient and easier for cross collaboration
• Different colors designate whether markers were placed at bedside or using Viewer from a remote location

File Management & Printing Options
• Network archiving feature allows transfer of sessions and facilitates file management by increasing speed of transfer
• Network printer connectivity simplifies charting and record keeping, saving cost by allowing printing onto standard paper
• Archive, restore and review patient files via USB, allowing data management even when not connected to the hospital network

Monitor neurological status sooner — help the newborn faster

ACCESSORIES
CART
• The bedside unit mounts to a cart – for placement in close proximity to the patient’s bedside

ELECTRODES
• Both Hydrogel and Needle electrodes are supported through standard touch-proof connectors located on the amplifier housing
ORDERING INFORMATION

Description

Olympic Brainz Monitor Kit - NA
(Includes: Monitor, roll stand, starter kit, power cord, DAB)........................ OBM70001

Olympic Brainz Monitor Kit - EU
(Includes: Monitor, roll stand, starter kit, power cord, DAB)............................ OBM70002

Olympic Brainz Monitor Kit - UK
(Includes: Monitor, roll stand, starter kit, power cord, DAB)............................ OBM70003

Olympic Brainz Monitor Kit - NZ/AUS
(Includes: Monitor, roll stand, starter kit, power cord, DAB)............................ OBM70004

Consumables

- Neonatal Sensors – 12 sets
  (1 set = 5 sensors) in a re-sealable pouch.......................... OBM00042

- Low Impedance needle electrodes - 6 sets
  (1 set = 4 needles)...................................................... OBM00046

- Wrap Hats (pack of 10 w/ dots).......................... OBM00043

- Skin Markers (box of 10).............................................. OBM00044

- NuPrep Skin Preparation Gel - 4oz Tubes (3-pk)........... 102566N

- Positioning Strips - Term and Pre-Term, pack of 20
  (10 of each).......................................................... OBM00047

GENERAL SPECIFICATIONS

TOUCH SCREEN MONITOR:

- Weight: 14.33 lbs (10 kg)
- Dimensions: 16.46 x 13.46 x 4.53 in (418 x 342 x 115 mm)

DATA ACQUISITION BOX (DAB):

- Weight: 10 oz (280 g)
- Dimensions: 2.98 x 5.75 x 1.23 in (75.7 x 146.1 x 31.2 mm)

ROLL STAND:

- Weight: 40 lbs (20 kg)
- Dimensions: 61.5 in height, 25 in base dia. (1562 mm height, 635 mm base dia.)

OPERATION (all components)

- Temperature: 0 to 40 °C (32 to 104 °F)
- Relative humidity: 25 to 90% at 40 °C (non-condensing)

Display

- Real-time EEG Waveform
- Rapid pens (aEEG, Impedance - Computed
- Rapid numeric (Impedance) - Computed
- Histogram distribution over 15-second intervals (aEEG, Impedance)
- Color TFT LCD with resistive touchscreen,
  15” (381 mm) diagonal, TFT color,
  1024 x 768 pixel native resolution

POWER SUPPLY (integrated)

- Power supply unit: Integrated AC, medical grade
- Power supply input voltage: 100 - 240 VAC, 50/60 Hz, 4A - 2A
- EEG specifications Sensitivity: 50 μVpk full scale maximum sensitivity
  (< 1μV/mm)
- Dynamic Range: 0.30 - 10000 μVpp (1-20 Hz)
- Update Rate: 200 Hz (EEG Waveform)

DATA ACQUISITION BOX (DAB) SPECIFICATIONS:

- Differential channels: 3
- Frequency response: 0.5 Hz – 450 Hz
- Analogue to digital converter: SAR ADC (16x oversampling)
- Sampling rate: 2000 Hz
- Resolution: 16 bits
- Sampling quantization: 300 nV
- Input impedance (DC): >50 MΩ