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.

**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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\(^3\) Sleep-Wake Cycling on Amplitude-Integrated Electroencephalography in Term Newborns With Hypoxic-Ischemic Encephalopathy. Damjan Ovedikar, 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.

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**CFMsight™**

Provides enhanced signal display for easier trace interpretation

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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

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Olympic Brainz Monitor Kit - NA (Includes: Monitor, roll stand, starter kit, power cord, DAB and hard copy manuals)</td>
<td>OBM70001</td>
</tr>
<tr>
<td>Olympic Brainz Monitor Kit - EU (Includes: Monitor, roll stand, starter kit, power cord, DAB)</td>
<td>OBM70002</td>
</tr>
<tr>
<td>Olympic Brainz Monitor Kit - UK (Includes: Monitor, roll stand, starter kit, power cord, DAB)</td>
<td>OBM70003</td>
</tr>
<tr>
<td>Olympic Brainz Monitor Kit - NZ/AUS (Includes: Monitor, roll stand, starter kit, power cord, DAB)</td>
<td>OBM70004</td>
</tr>
</tbody>
</table>

**Consumables**

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neonatal Sensors – 12 sets (1 set = 5 sensors) in a re-sealable pouch.</td>
<td>OBM00042</td>
</tr>
<tr>
<td>Low Impedance needle electrodes - 6 sets (1 set = 4 needles)</td>
<td>OBM00046</td>
</tr>
<tr>
<td>Wrap Hats (pack of 10 w/ dots)</td>
<td>OBM00043</td>
</tr>
<tr>
<td>Skin Markers (box of 10)</td>
<td>OBM00044</td>
</tr>
<tr>
<td>NuPrep Skin Preparation Gel - 4oz Tubes (3-pk)</td>
<td>102566N</td>
</tr>
<tr>
<td>Positioning Strips - Term and Pre-Term, pack of 20 (10 of each)</td>
<td>OBM00047</td>
</tr>
</tbody>
</table>

## 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)
  - Rapid numeric (Impedance)
  - 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