

# CFM Olympic Brainz Monitor

## Simplifying Bedside Cerebral Function Monitoring

Your trusted partner in the NICU, providing actionable neurological information during critical times.

- Easy bedside setup; plug-in the unit, apply the electrodes and record
- Intuitive navigation and versatile patient settings
  - up to three-channel, cross-cerebral or right and left hemisphere monitoring
  - easily add an additional channel to an existing single-channel set-up
- Disposable electrodes help reduce the risk of infection

### New Features:

- Enlarged all-in-one 17" touchscreen monitor
- Windows® 10 data security
- Faster computer processing speed
- Background Pattern classification (BPC) software
- RecogniZe seizure detection software

# Simple, Automated, Secure - for optimal cerebral function monitoring



## Simple

**A product that will change the way you administer care to the most delicate of patients.**

The Olympic Brainz Monitor (OBM) provides continuous cerebral function monitoring at your fingertips. The easy-to-use system with easy-to-apply electrodes provides quick and simple routine bedside monitoring. System-based online help provides a step-by-step guide for both setup and patient preparation, allowing you to start monitoring in minutes. The larger touchscreen allows for easier review of patient data at the bedside. It's as easy as:

- plug in the unit
- apply the electrodes
- start recording



## Automated

**Two unique automated software applications assist in recognizing background patterns and indicate if seizure activity may be present.**

These automated software applications provide data and alerts at the bedside, indicating to clinicians a change in cerebral function. They also provide useful information during clinical consultation. CFMsight provides enhanced signal display for easier trace interpretation. With the OBM, the newborn can remain in the NICU for their basic neurological assessment.



## Secure

**Ensuring security of patient data is a priority today.**

The Windows 10 operating system provides a barrier against unwanted data tampering. Your newborn patient's valuable information remains protected. The CFM Viewer software permits the encrypted review and analysis of recorded CFM data when viewed remotely. Connect by Ethernet via your hospital network, or export the data via USB for easy data review at your convenience.



## Cerebral Function Monitoring (CFM) applications for use

CFM is becoming a standard of care in the NICU for neuromonitoring. The OBM's proven track record provides optimal cerebral function monitoring solutions and may have useful prognostic indication for the following newborn conditions:

- Hypoxic Ischemic Encephalopathy (HIE)
- Newborns receiving therapeutic hypothermia
- Preterm newborns
- Infants with Intraventricular Hemorrhage (IVH)
- Monitoring newborns with confirmed or suspected seizure activity
- Neonatal Abstinence Syndrome (NAS)
- Surgical and Cardiac newborns
- Newborns with inborn errors of metabolism
- Sedated and ventilated newborns



L S de Vries, L Hellström-Westas. Role of cerebral function monitoring in the newborn. Arch Dis Child Fetal Neonatal Ed 2005; 90:F201-F207. doi: 10.1136/adc.2004.062745.

Shellhaas RA, Soaita AI, Clancy RR. Sensitivity of Amplitude-Integrated Electroencephalography for Neonatal Seizure Detection. Pediatrics. 2007; 120: 770-777.

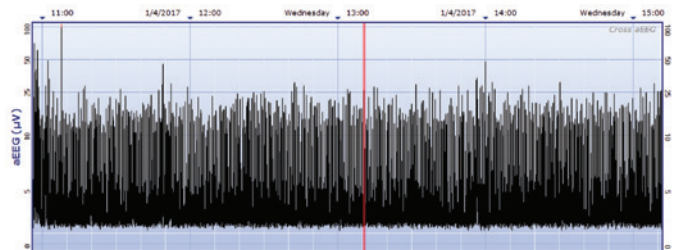
Edwin Spitzmiller, DO, Tracy Morrison, RN, BSN, Robert White, MD. Babies with Neonatal Abstinence Syndrome Have Electrographic Seizures and Altered Sleep on Amplitude Integrated EEG. Neonatology Today. Volume 8/Issue 10; October 2013.

R. Edwin Spitzmiller, DO, Tonya Phillips, MD, Jareen Meinzen-Derr, PhD, and Steven B. Hoath, MD. Amplitude-Integrated EEG Is Useful in Predicting Neurodevelopmental Outcome in Full-Term Infants With Hypoxic-Ischemic Encephalopathy: A Meta-Analysis. Journal of Child Neurology Volume 22 Number 9 September 2007 1069-1078.

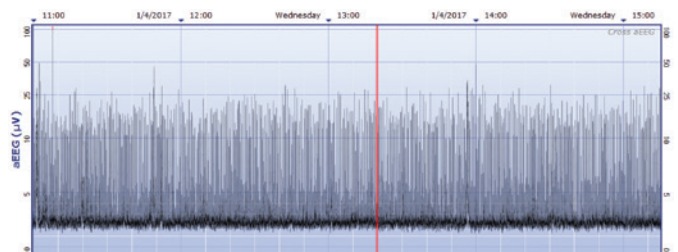
## Additional features

- CFMsight provides enhanced signal display for easier trace interpretation

### Without CFMsight:



### With CFMsight:



- RecogniZe and BPC software notification alerts draw the attention of the caregiver to suspected seizure activity or changes in the background pattern
- Customizable, time-stamped markers help track bedside caregiving activities, making reviewing easy and efficient either at the bedside or when viewed remotely
- Continuous impedance view provides the caregiver with immediate information about potential contact issues with individual electrodes
- Disposable hydrogel and low-impedance needle electrodes are supported through standard touchproof connectors
- Easy to archive, restore, review and share patient data using the dedicated OBM Viewer software
- Network printer connectivity

## General Specifications

### TOUCHSCREEN MONITOR

|            |   |
|------------|---|
| Weight     | 12.35 lb (5.6 kg)                         |
| Dimensions | 13.31 x 15.12 x 2.72" (338 x 384 x 69 mm) |

### DATA ACQUISITION BOX (DAB)

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

### ROLL STAND

|            |   |
|------------|---|
| Weight     | 40 lb (20 kg)   |
| Dimensions | 61.5" height, 25" base diameter<br>(1562 mm height, 635 mm base diameter) |

### OPERATION (ALL COMPONENTS)

|                   |                                     |
|-------------------|-------------------------------------|
| Temperature       | 32° - 104° F (0° - 40° C)           |
| Relative humidity | 25% - 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, 17" (432 mm) diagonal, TFT color, 1280 x 1024 pixel native resolution                                |

### POWER SUPPLY (INTEGRATED)

|                                |  |
|--------------------------------|--|
| Power supply unit              | External power adapter, medical grade                        |
| Power supply input voltage     | 100 - 240 VAC, 50/60 Hz, 1.6 - 0.7A                          |
| EEG specifications sensitivity | 50 $\mu$ Vpk full scale maximum sensitivity (< 1 $\mu$ V/mm) |
| Dynamic range                  | 0.30 - 10000 $\mu$ Vpp (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 M $\Omega$            |

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