**GENERAL SPECIFICATIONS**

**MONITOR SPECIFICATIONS**

- 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) 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

**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)

**ORDERING INFORMATION**

**DESCRIPTION** | **CATALOG#** | **ORDERING INFORMATION**
--- | --- | ---
Olympic Brainz Monitor: Kit Without Roll Stand (Not available in the USA) | NA | Includes: Monitor, starter kit, power cord, DAB.
Olympic Brainz Monitor: Kit Without Roll Stand | OBM60001 | 110V
Olympic Brainz Monitor: Kit Without Roll Stand | OBM60003 | 220V (UK)
Olympic Brainz Monitor: Kit Without Roll Stand | OBM60004 | 110V (NZ/AUS)
Olympic Brainz Monitor: Kit | OBM70001 | Includes: Monitor, roll stand, starter kit, power cord, DAB and hard copy manuals.
Olympic Brainz Monitor: Kit | OBM70002 | EU
Olympic Brainz Monitor: Kit | OBM70003 | UK
Olympic Brainz Monitor: Kit | OBM70004 | NZ/AUS

**SOFTWARE OPTIONS**

**DESCRIPTION** | **CATALOG#** | **ORDERING INFORMATION**
--- | --- | ---
RecogniZe Seizure Detection Software License Kit | OBM00092 |
Background Pattern Classification Software License Kit | OBM00093 |

**CONSUMABLES**

**DESCRIPTION** | **CATALOG#** | **ORDERING INFORMATION**
--- | --- | ---
Neonatal Sensors – 12 sets | OBM00042 | (1 set = 5 sensors) in a re-sealable pouch.
Low Impedance needle electrodes - 6 sets | OBM00046 | (1 set = 4 needles).
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 | OBM00047 | (10 of each)

**GENERAL SPECIFICATIONS**

- Touch Screen Monitor
- Weight: 15.00 lbs (10 kg)
- Dimensions: 23.5 (L) x 17.0 (W) x 5.5 (H) in (597 x 432 x 140 mm)
- 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

¹ ACNS Guidelines from the journal of clinical neurophysiology. 2011 December; Vol 28 No. 6.
⁵ Sleep-Wake Cycling on Amplitude-Integrated Electroencephalography in Term Newborns With Hypoxic-Ischemic Encephalopathy. Damjan Osredkar, 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 2005 February; Vol. 115 No. 2, pp. 327-332.
Amplitude-integrated EEG is the most commonly used digital trend for newborns and its use has been integrated as a customary practice for assessment of EEG background in many intensive care nurseries.1

The Olympic Brainz Monitor is the latest technology in Cerebral Function Monitoring (CFM), allowing you to begin monitoring in 3 easy steps:

1. Plug in unit
2. Apply electrodes
3. Start recording

EASE OF INTERPRETATION AND COLLABORATION

- Automatic detectors: Recognize™ Seizure Detection is now a standard feature that automatically identifies areas of suspected seizure activity for easy review and confirmation.
- Background Pattern Classification (BPc) is an optional software package that automatically scores the aEEG with the suggested BPc for review and confirmation by a qualified clinician.

CFM Viewer software implements similar functionality to the bedside unit, permitting review and analysis of recorded CFM data away from the bedside
- Remote review and consultation – offers remote viewing of active or stored recordings from any location
- Web-based – Simplifies consultation
- Provides remote review and annotation of patient recordings with marked events appearing at bedside
- Event markers – Allows marking of specific events in the recorded data
- Web-based

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 easy access to information that you need the most
- Versatile patient settings – Easily add a channel to an existing single channel setup
- Cross cerebral, right and left hemisphere with up to 3-channel monitoring simplifies patient hook up and provides additional data when needed

Clinical usage of aEEG monitoring

Medical literature reports that aEEG monitoring can be used to:

- Monitor general neurological status
- Monitor and record seizures3
- Monitor during hypothermic treatment to measure the effectiveness of treatment4 – 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.
- Monitor aEEG patterns to indicate the presence of deep awake cycling (PWD) and periods of ischemia, which is associated with better outcomes in HIE patients6 and may add value in developmental care.

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 of brain injury – the Olympic Brainz Monitor is the optimal CFM solution for fast & simple routine bedside monitoring.