GENERAL SPECIFICATIONS

TECH SNARE MONITOR
- 3.8 W, 12.6 W
- Resolution: 16.7 W x 1024 x 768 pixel native resolution
- 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
- Power supply unit: Integrated AC, medical grade
- Power supply input voltage: 100 - 240 VAC, 50/60 Hz, 4A - 2A
- EEG specifications:
  - Sensitivity: 50 μVp-p 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

SOFTWARE OPTIONS
- RecogniZe Seizure Detection Software License Kit
  - OBM00092
- Background Pattern Classification Software License Kit
  - OBM00093

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
- 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.
- Effects of treatment of subclinical neonatal seizures with aEEG: Randomize, Control Trial
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:

- **PLUG IN UNIT**
- **APPLY ELECTRODES**
- **START RECORDING**

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

CLINICAL USAGE OF αEEG MONITORING

MEDICAL LITERATURE REPORTS THAT αEEG MONITORING CAN BE USED TO:

- Monitor general neurological status
- Monitor and record seizure
- 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 treatment4
- Monitor aEIS patients to indicate the presence of sleep-awake cycling (cybology) in term and premature infants, which is associated with better outcomes in HIE patients5 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 with up to 3-channel monitoring simplifies patient hook up and provides additional data when needed

The Olympic Brainz Monitor provides αEEG, real time EEG and continuous measurement of impedance in up to 3 channels. The NICU friendly interface allows real time monitoring of brain function, providing vital data that may assist in predicting outcomes.

CFMsight

- Provides enhanced signal display for easier trace interpretation

Without CFMsight:

- Trace appears CNV based on margins (however SWC is absent)

With CFMsight:

- The same trace with CFMsight enabled displays a narrow dark band in the lower margin, suggesting the possibility of a falsely elevated lower margin due to EKG artifact

With the confirmation of EKG artifact the raw αEIG in the lower margin was simplified as being close to zero, which would be more consistent with severe injury and a burst suppression pattern

EASE OF INTERPRETATION AND COLLABORATION

AUTOMATIC DETECTORS

- RecogniZe™ Seizure Detection is a new 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 αEIG with the suggested BPC for review and confirmation by a qualified clinician

CFM VIEWER

- 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 – Simplifies consultation
- Provides remote review and annotation of patient recordings with marked events appearing at bedside
- Web-based

EVENT MARKERS

- User-customizable, touch-screen enabled markers keep track of key events and milestones in a patient’s journey, helping the review process move more efficiently and easier for cross collaboration
- Different colors denote whether markers were placed at bedside or using Viewer from a remote location

FILE MANAGEMENT AND 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

CONSUMABLES ELECTRODES

- Both hydrogel and needle electrodes are supported through standard touch-proof connectors located on the amplifier housing

MONITOR NEUROLOGICAL STATUS SOONER – HELP THE NEWBORN FASTER

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