

power cord, DAB)	OBM0004
<b>Software options</b>	
RecogniZe Seizure Detection Software License Kit	OBM00092
Background Pattern Detection Software License Kit	OBM00093 (Not available in the US)
<b>Consumables</b>	
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

### 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 $\mu$ 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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<sup>1</sup>ACNS Guidelines from the journal of clinical neurophysiology. 2011 December; Vol 28 No. 6

<sup>2</sup>Utility of prolonged bedside amplitude-integrated encephalogram in encephalopathic infants. Mathur AM, Morris LD, Tete F, Inder TE, Zempel J. Am J Perinatol. 2008 November; 25(10):611-5. Epub 2008 Oct 7.

<sup>3</sup>Effects of treatment of subclinical neonatal seizures with aEEG: Randomize, Control Trial. Van Rooij LGM, Tost MC, Van Huffelen AC, et al. Pediatrics 2010; 125:e358-e366.

<sup>4</sup>Atlas of amplitude integrated EEGs in the Newborn, 2nd Edition. Lena Hellström-Westas, Ingmar Rosen, Linda S. de Vries, pp. 81 and pp. 82.

<sup>5</sup>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.

<sup>6</sup>NeoReviews. Hellstrom-Westas, Rosen, deVries, Greisen. 2006 February; Vol 7 No. 2.

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