

# BRAINZ

BRM3 BRAIN MONITOR

Bedside brain monitoring whenever you need it



natus<sup>®</sup>  
pediatrics

# Trust

## Why do neonatal staff from all over the world trust Brainz BRM3 Monitor?

- The BRM3 was developed in collaboration with clinical users and designed specifically for neonatal staff
- We provide comprehensive training delivered by experienced clinical specialists



### BRM3 – A dedicated 3-channel bedside brain monitor.

With the increase in perinatal survival rates, clinical focus is now on improving long term outcome. This raises issues related to neurological function and brain injury.

Monitoring neonatal cardiac function, respiratory function and thermoregulation has been standard practice for many years. The BRM3 device offers you the ability to monitor brain function, allowing access to neurological information 24 hours per day.

# Simplicity

## Ease of operation

- Intuitive navigation allows quick access to clinical information
- Continuous monitoring of sensor contact quality provides automatic data validation
- Flexible event marking indicates clinically relevant information
- Onscreen Help System provides up to date operational information
- Digital files download easily using high speed USB2.0 port
- Color printer connectivity allows high quality, long lasting images

## Ease of interpretation

- Real time EEG and aEEG waveforms for both hemispheres
- Review function enables detailed examination of specific areas of a trace
- Reliable interpretation using evidence-based electrode montage

## Ease of setup

- Can be applied by NICU staff whenever required, offering continuous bedside brain monitoring
- Sensor Positioning Aid for accurate sensor application

The BRM3 monitor can easily be applied by NICU staff whenever required, offering continuous bedside brain monitoring whenever you need it.

With 10 to 20% of neonatal cerebral injuries resulting from unilateral lesions, you can use the BRM3 system to help you monitor brain function of both hemispheres and SEE BOTH SIDES.



## ORDERING INFORMATION

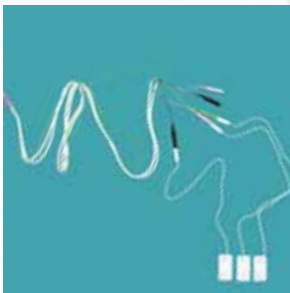
Catalog #	Description
BRM0001 .....	Monitor with DAU, roll pole + US region kit
CZA00012 .....	Sensor Adaptor Set, Box of 10
CZA00037 .....	Neonatal Sensors, Box of 20
CZX00010 .....	Sensor Application Kit
CZN00011 .....	Skin Marker, Box of 10
CZN00012 .....	Wrap-Hat, Bag of 10
102566N .....	NuPrep™ Skin Prep Gel, 4-oz. tube (x3)



### Neonatal Sensor Set

- Unique hydrogel layer — adheres safely to delicate skin while providing excellent electrical contact

Brainz CZA00037



### Sensor Adaptor Set

- Choice and flexibility — for alternative electrode types

Brainz CZA00012

## Monitor Specifications

Monitor Dimensions	(W x H x D) 13 3/4 x 11 1/4 x 3 3/4" (348 x 285 x 92 mm)
Monitor Weight	10 lb (4.54 kg)
Display	12 1/4" (307 mm) TFT LCD
Resolution	800 x 600
Roll Pole	Mobile Variable height and tilt adjustable

## Displayed Parameters

Main parameters:	EEG Waveform Integrated Amplitude aEEG
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Secondary parameters:	Intensity Spectral Edge EEG Power Spectrum
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Signal reliability parameters:	Impedance AC Supply Noise
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### Power supply

Power supply unit	XPiQ model PCM80PS24
Power supply unit input voltage	100 - 240 VAC, 47-63 Hz, 1.1 – 0.45 A
Power supply unit output voltage	24 VDC, 3.33 A maximum (80 W)

### DAU specifications

Band pass filter	-3 dB at 0.3 Hz and 150 Hz
Bandwidth	0.3 - 128 Hz
Analogue to digital converter	Delta sigma (1 per channel)
Sampling rate	256 samples/sec with 512 times oversampling
Resolution	21 bits effective at 256 Hz
Input impedance	33 MΩ in parallel with 4.7 nF
Allowed DC offset	±0.35 VDC at input
Noise	< 1 μVp-p
Common mode rejection	>137 dB

### Operation (all components)

Temperature	0 to 40 °C (32 to 104 °F)
Relative humidity	25 to 90% at 40 °C (non-condensing)

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