

ant neuro
inspiring technology

nëo™
simplify neonatal brain monitoring



nëo Hardware

HD monitor

15" touchscreen monitor displays aEEG patterns accurately with great detail



Flexible mounting

Mount on medical cart, wall/ceiling, or bed-side table to save valuable space in NICU

Designed for NICU

Sturdy and sleek, mobile, minimal cabling

Research grade amplifier

Research grade EEG amplifier with high input impedance provides high quality aEEG/EEG data



Access to single lead electrodes

Color-coded sockets on the touchproof break-out adapter allow for easy channel placement

Providing for the convenient use of compatible needle, hydrogel, and cup electrodes

Optimized for servicing and maintenance

Open amplifier integration for easy servicing and maintenance

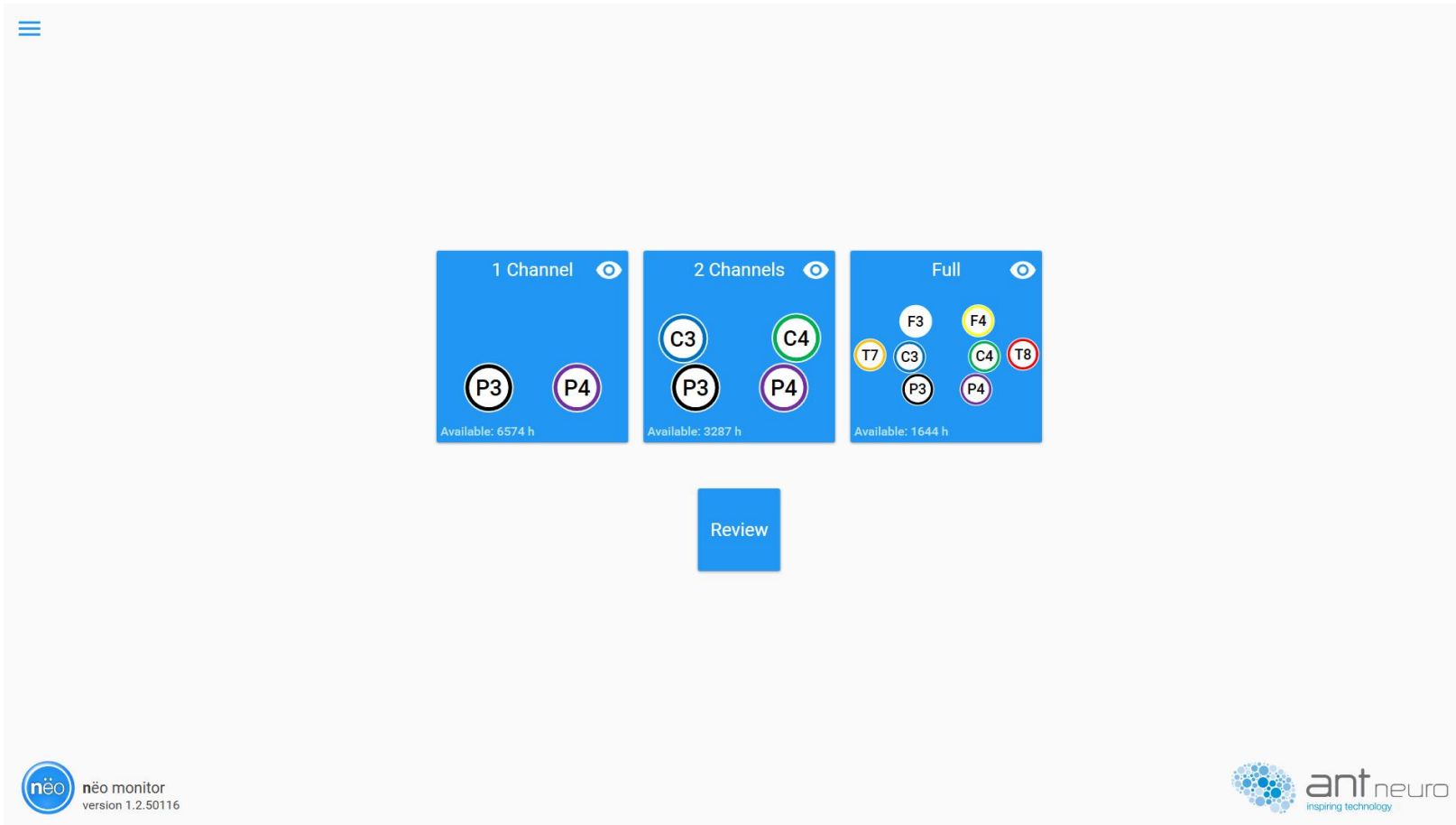
ANT Neuro neonatal waveguard™ head caps



With our research grade amplifier, **nëo** allows for the use of the neonatal **waveguard** actively-shielded caps:

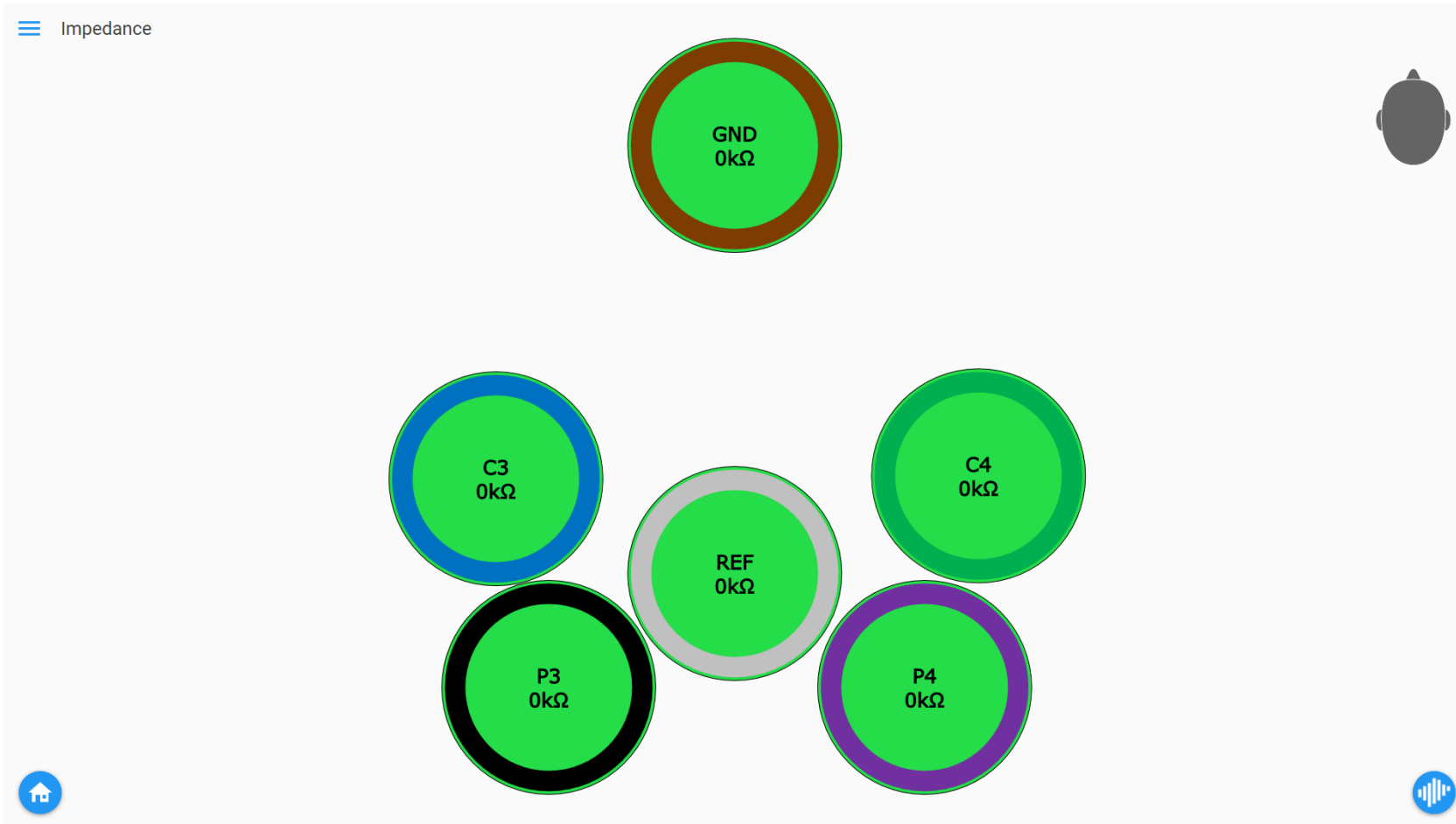
- Non-invasive
- Reduced impedance issues
- Accurate electrode positioning
- Artifact reduction

Intuitive User Interface



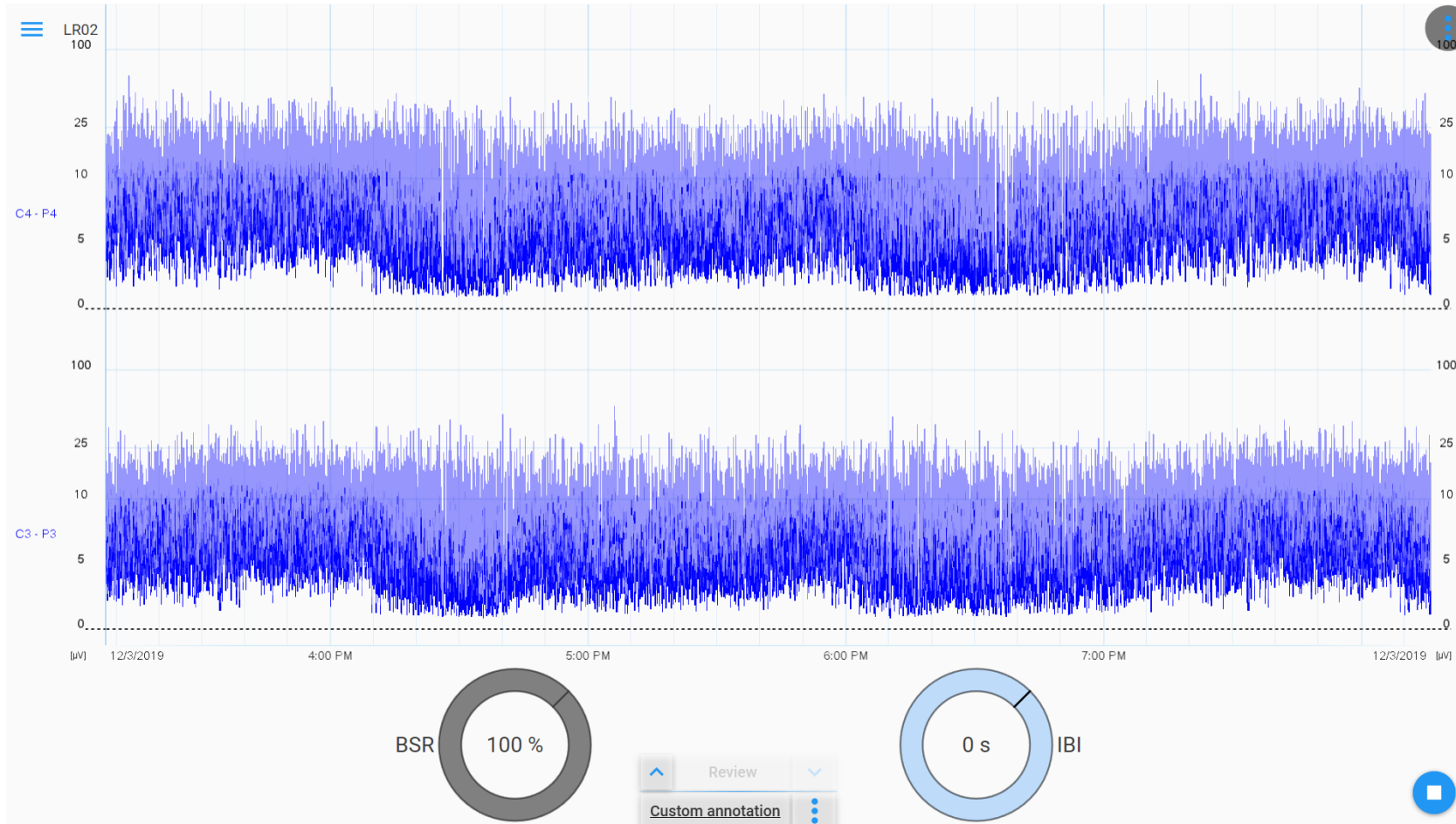
Example of nēo start screen

Intuitive User Interface



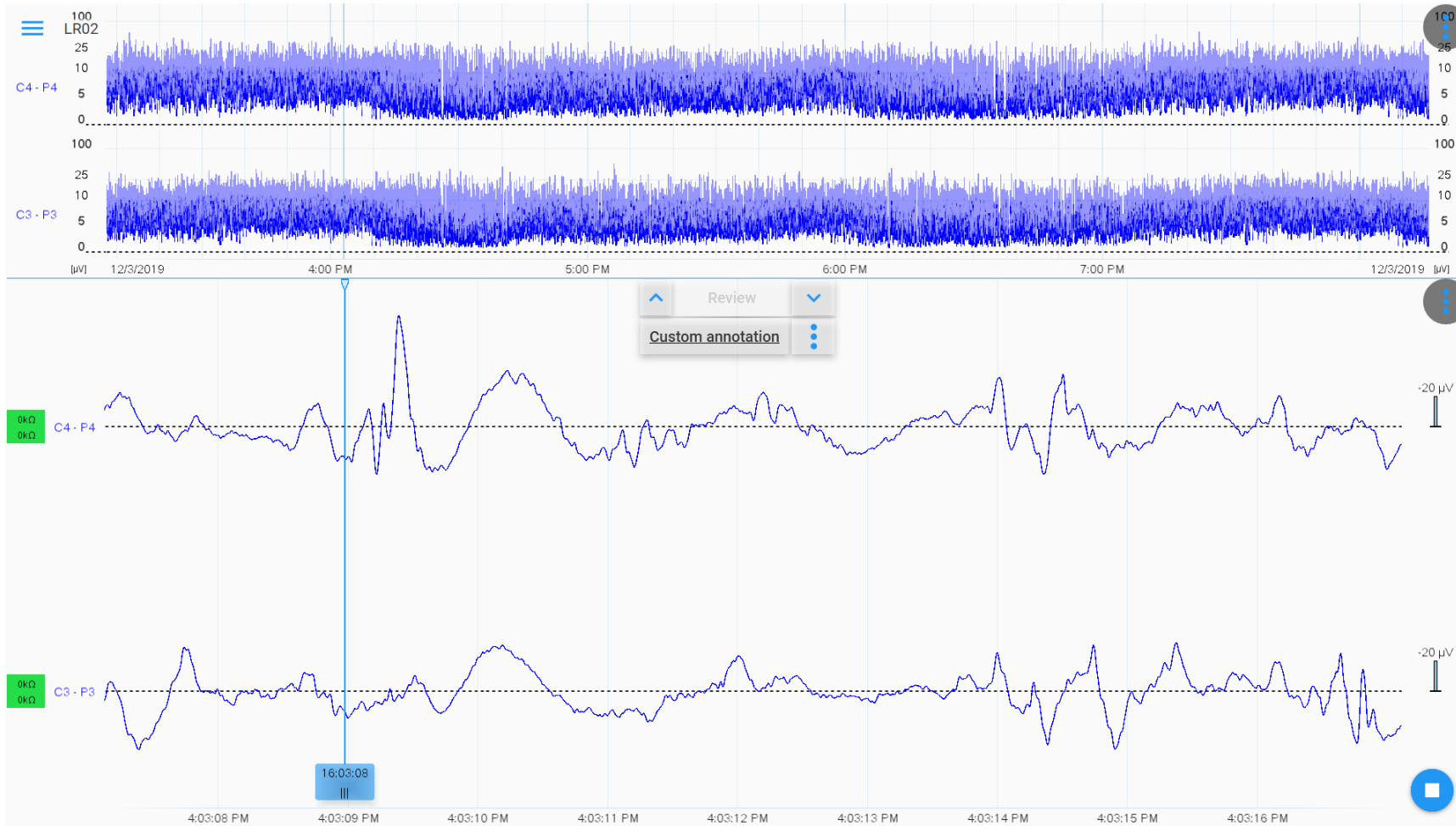
Example of impedance check screen

Intuitive User Interface



- Example of the aEEG screen

Intuitive User Interface



Example of aEEG/EEG split screen

New Feature: Automatic annotation of seizures



- Example of aEEG view with seizure annotations

Icon in the lower left corner

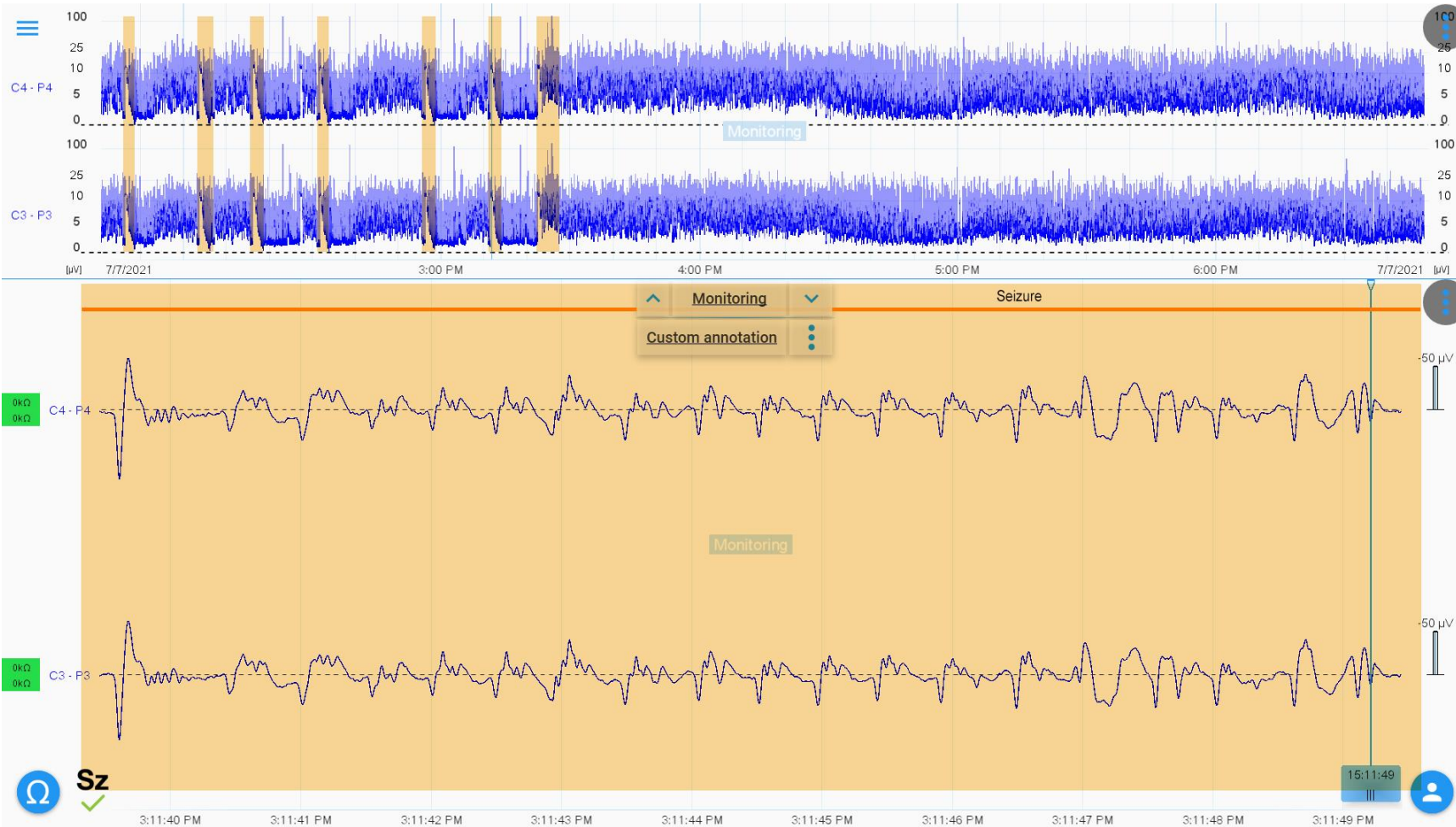
Sz
✓

Enabled

Sz
✗

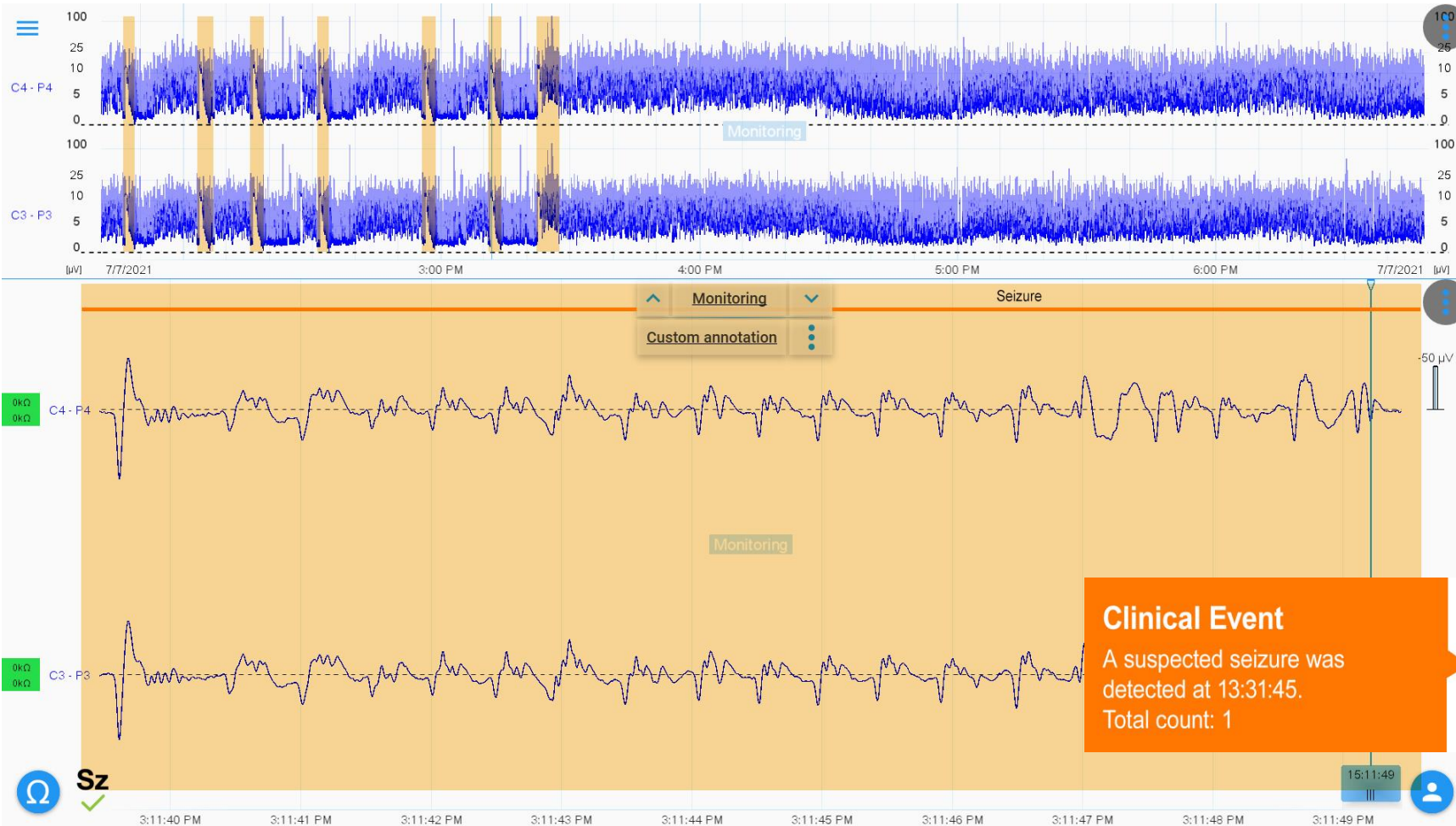
Disabled

Automatic annotation of seizure activity



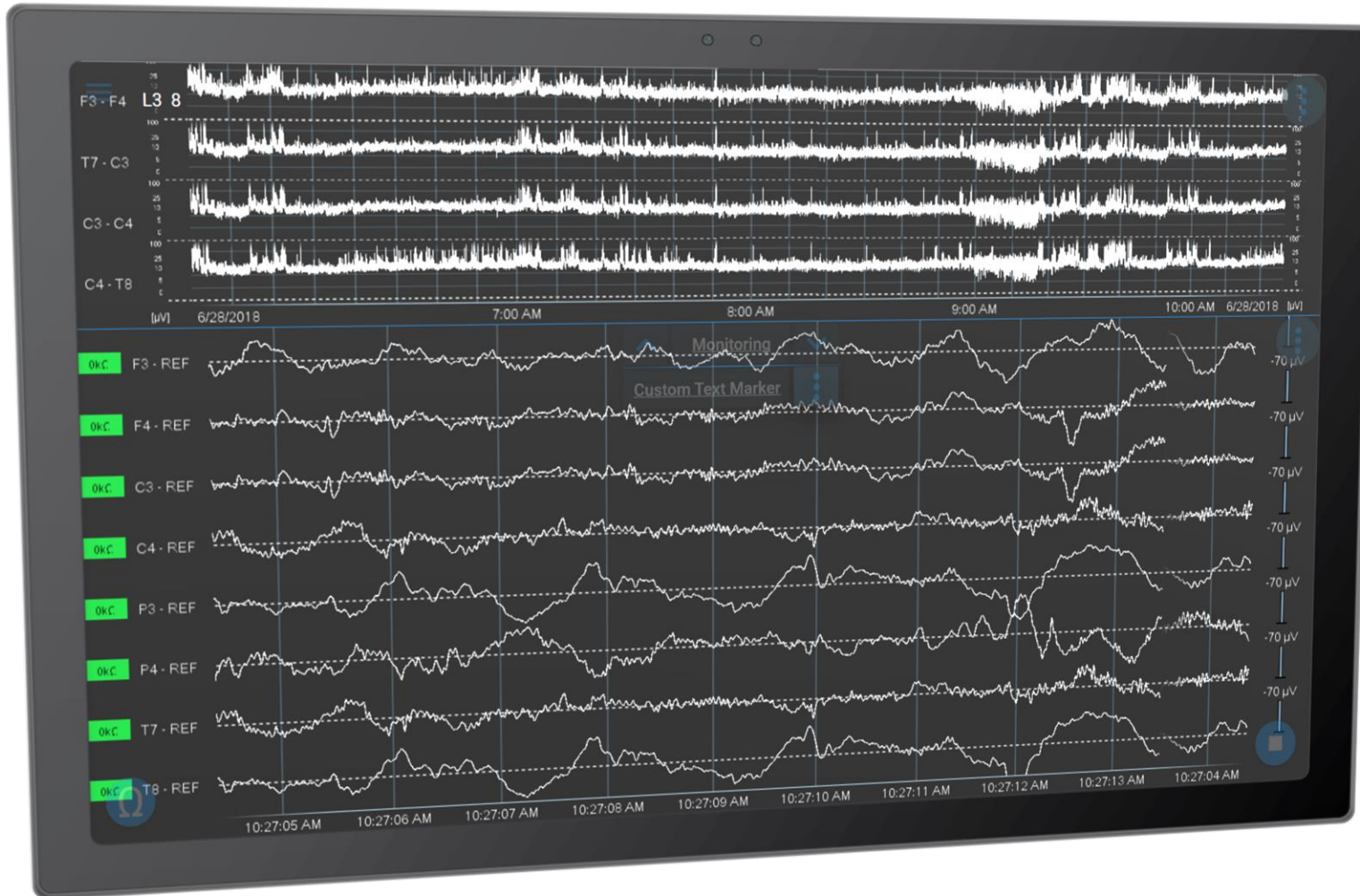
Example of aEEG / EEG view
with annotated seizure activity

Automatic annotation of seizure activity



- An orange notification message will display the timestamp of the most recently annotation seizure and a count of individual ictal events
- Suspected seizures can be acknowledged by tapping the notification away. This will also reset the count.

Intuitive User Interface



- **Additional value**
With 8-channel cEEG it provides diagnostics value to (pediatric) neurology, and an extended coverage for better visual seizure detection.

Features and Benefits Summary of nëo



Features	Benefits
High input impedance of > 1 GΩ (research grade amplifier)	<ul style="list-style-type: none">• Maintains signal quality even with higher impedances• Easier application of hydrogel electrodes• Compatible with waveguard neonatal caps
Active Shielding (research grade amplifier)	<ul style="list-style-type: none">• Significantly reduces electrical noise artifacts from surrounding medical devices in a NICU
Artifact Recognition System	<ul style="list-style-type: none">• Identifies remaining artifacts and places automatically markers
User Interface	<ul style="list-style-type: none">• nëo offers an intuitive and modern UI that maximizes efficiency in NICU workflows
Automatic annotation of seizure activity	<ul style="list-style-type: none">• Clear markers of suspected seizure activity on up to 2 user-defined aEEG/EEG channels

Features and Benefits Summary of n_ëo



Features	Benefits
Quick and easy export of EEG (EDF+ format) and aEEG (ASCII format) data via USB or Network Cable	<ul style="list-style-type: none">• Quick and easy sharing of recordings. EEG data can be further diagnosed with high end diagnostic review programs such as MATLAB, Persyst or others
Quick and easy screenshots in pdf format	<ul style="list-style-type: none">• Quick and easy sharing of aEEG patterns
Greyscale	<ul style="list-style-type: none">• Clear display of dominant brain activity
Break-out adapter	<ul style="list-style-type: none">• Compatible with the waveguard™ head cap or hydrogel, needle and cup electrodes.

Features and Benefits Summary of nëo



Features	Benefits
Maximal 6 aEEG channels and 8 referential EEG channels	<ul style="list-style-type: none">• Provides more clinical information for collaborating with neurology/neurologists
Online Burst Suppression Ratio Display (BSR)	<ul style="list-style-type: none">• Easy and quick identification whether background pattern is Burst Suppression or DCNV
Online Inter-Burst-Interval (IBI)	<ul style="list-style-type: none">• Provides an ongoing indication of the infant's brain maturation over time
Unlimited, pre-defined and color-coded annotations	<ul style="list-style-type: none">• Easy and quick recognition and differentiation between critical and non-critical events
Customer specific aEEG/cEEG protocols	<ul style="list-style-type: none">• Allows experienced users specific montages, e.g. for research purposes

Certified Quality of nēo

FDA cleared in USA

CE certified Class IIa in Europe

TGA approved in Australia

Health Canada approved

Automatic annotation of seizures is currently
not available in USA and Canada



ant neuro
inspiring technology

inspiring technology for the human brain