Introduction

Here at NeuroField we don’t believe in standing still. We strive for innovation, pushing ourselves to make the best equipment and offer the most adaptable software in the industry.

Flexibility, reliability, and accuracy, our systems are designed to meet the stringent requirements of the working professional while giving you the best tools for neurofeedback. Precision EEG, targeted pEMF, HRV, and tDCS/tACS means you have access to the most capable neurofeedback system possible.

With a constantly expanding protocol database and a powerful community of minds, we provide access to the latest neurofeedback protocols and treatment methods.

Whether you are a clinician, a patient, or just interested in learning more about what we can offer, take a look and...

Step into the Future.
The X3000 is a low intensity 4 channel pEMF (pulsed electromagnetic field) generator using four 200-wind coil packs for precision placement anywhere on the body.

The X3000 is a software controlled system which is fully customizable all the way down to the easy to use patient database. The frequency range from 0.31Hz to 300,000Hz, output intensity range from 1-50 microTesla (uT), and the ability to generate sine, triangle, and square waveforms means the X3000 is one of the most flexible pEMF generators in the industry.

Capable of being synchronized with the Q20 EEG, the X3000 is the first pEMF system in the world to combine stimulation with z-score, norm referenced operant conditioning methods.

With multiple databases included and over 100 unique protocols for the treatment of everything from Inflammation Reduction and Gastrointestinal Issues, to Brain Fog, Anxiety, and Depression, the X3000 is the most flexible pEMF system available.

### Specifications:
- **Frequency Range:** 0.31-300,000Hz
- **Intensity:** 1-50 microTesla
- **Waveform:** Sine, Triangle, and Square
- **Channels:** 4 Independently programmable
- **Protocols:** 100+
- **Software:** NeuroField Suite
- **PC Connection:** USB - CAN Optical Isolation

### Dimensions:
- **Coil pack size:** 0.75"x2"x2.75"
- **Coil cable length:** 6.5'
- **X3000 size:** 2.5"x6.5"x6.875"
- **Power Supply Requirement:** 100-240VAC
- **Registration:** FDA 510K Exempt
- **Warranty:** Limited 1 year

### X3000 Package Details
The X3000 kit includes everything you would need to operate the X3000 pEMF system. The X3000 is a STIMULATION ONLY unit, and it does not record any data. If you wish to collect EEG data, take a look at our Q20 EEG.

**Package Contents:**
- X3000 Plus Stim Unit
- One set of 200-wind coils (4 channels)
- One Velcro cap
- One CANBus USB adapter
- Two RJ45 cables
- One auto-switching power supply
- Access to the NeuroField Software Suite

**$3495.00 USD**

Not including Shipping or Tax (CA Residents Only)
The Q20 EEG Amplifier is state of the art in pristine EEG signal processing. Designed from the ground up for ease of use and flexibility.

The Q20 is a 20 channel Electroencephalogram with a low noise floor of 0.25 μV peak to peak from 0.1 to 10.0Hz, meaning that you can record EEG without worrying about noise contamination. On top of our low-noise design, the Q20 is a non-averaged, multi-channel readout amp, minimizing slewing for the most accurate whole brain imaging, and giving you the exact readout of your recordings, no loss of data or smoothing.

In the NeuroField software suite you can acquire stand-alone EEG or use our synchronized EEG and stimulation (pEMF, tACS, or both) Z-score training to take things to the next level. Combining Z-score with EEG allows you to target your neurofeedback protocols with an unprecedented level of accuracy, taking your treatment plans to a new level of effectiveness.

The Q20 is also fully integrated into the Neuroguide suite as well as both Bioexplorer and BioEra for traditional amplitude training.

### Specifications:
- **Channels:** 20 (Non-Averaged)
- **References:** A1/A2 (ears)
- **Ground:** Channel 20
- **Input Range:** +/-100 mV EEG, +/-5 VDC
- **Input Noise:** 0.25 μV p - p, 0.1-10.0Hz
- **Input Impedance:** 100 GΩ
- **Gain:** 50
- **Common Mode Rejection Ratio:** >120dB from 0-60Hz
- **Single Pole Low Pass filter:** ~80Hz
- **Resolution:** 24 bits
- **Sample Rate/Data Rate:** 256 Samples/sec
- **Full Scale Input Range:** +/-2.25 V
- **EEG Resolution:** 0.02 μVolts/LSB
- **EEG Channel Bandwidth:** Software Controllable
- **DC Offset Measurement:** Average DC Level
- **Sensor Contact Quality:** Monitored Via Offset Voltage
- **PC Connection:** USB - CAN Optical isolation
- **File Type Compatibility:** EDF, NeuroGuide

### Dimensions:
- Q20 size: 2.5"x8.125"x6.875"
- Power Source: RRC2040 Battery Pack
- Warranty: Limited 1 year

### Q20 Package Details
The Q20 kit includes everything you would need to operate the Q20 Quantitative EEG system. The Q20 is a Quantitative Electroencephalograph, and it does not provide any form of stim. If you wish to run stimulation treatments, take a look at our X3000 or tDCS/tACS.

**Package Contents:**
- Q20 EEG Unit
- One 4-Channel Breakout Box
- One CANBus USB adapter
- Two RJ-45 cables
- One RRC2040 Battery Pack
- One Battery Pack Charger (100-240VAC)
- Access to the NeuroField Software Suite

Does NOT include E1-LEX electrode cap or E5-9S ear drops.

$5295.00 USD

Not including Shipping or Tax (CA Residents Only)
Breaking new ground, our transcranial direct current/alternating current stimulation device (tDCS/tACS) offers a leap forward in stimulation technology.

The tDCS/tACS offers similar flexibility as our X3000 with the capability to generate sine, triangle and square waves in pulsed or continuous with frequency ranging from 0.001 to 1,000Hz. This combined with the option of DC as well offers an unprecedented level of customizability in the growing field of transcranial stimulation. Maximum current is capped at +/-2.5mA and monitored with our 16 bit Real-Time Current Sensor (RTCS), a first for tDCS/tACS, allowing you to confirm a proper connection as well as ensure safe operation for your patients.

Fully integrated with our software suite, you can combine the tDCS/tACS and pEMF (X3000) stimulation units with our Real-Time Z-Score EEG (Q20) for the most comprehensive and advanced neurofeedback system possible.

The tDCS/tACS includes a database containing more than 30 unique protocols and offers you the ability to customize or create your own tailored protocols as well.

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### Specifications:

**Connectors:**
- 3.5mm Touchproof

**Modes:**
- DC
- Continuous Sine
- Continuous Triangular
- Continuous Square
- Pulsed Sine
- Pulsed Triangular
- Pulsed Square

**DC Mode Output Range:** +/-2.5 mA

**DC Mode Resolution:** 14 Bit D/A Converter

**AC Mode Output Range:** 0.001 to 2.5 mA Peak to Peak

**AC Mode Frequency Range:** 0.001 to 1,000Hz

**Pulsed Mode # of Periods:** 1 to 65,535

**Real-Time Current Sensor Range:** +/- 2.5 mA

**RTCS Resolution:** 16 bit A/D Converter

**RTCS Sample Rate:** 1 to 200Hz Software Timed

**PC Connection:** USB - CAN Optical isolation

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### Dimensions:

- tDCS/tACS size: 2.25"x4.5"x5.375"
- Power Source: RRC2040 Battery Pack
- Warranty: Limited 1 year

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### tDCS/tACS Package Details

The tDCS/tACS kit includes everything you would need to operate the tDCS/tACS system. The tDCS/tACS is a STIMULATION ONLY unit, and it does not record any data. If you wish to collect EEG data, take a look at our Q20 EEG.

**Package Contents:**

- tDCS/ACS Stim Unit
- One set of 60" DIN EEG Snap Electrode Leads
- One Bag of Covidien 43x35mm disposable ECG Electrodes
- One Bag of Covidien 30x24mm disposable ECG Electrodes
- One CANBus USB adapter
- Two RJ-45 cables
- One RRC2040 Battery Pack
- One Battery Pack Charger (100-240VAC)
- Access to the NeuroField Software Suite

**Price:** $3495.00 USD

Not including Shipping or Tax (CA Residents Only)
The NeuroField Software Suite provides a complete solution center for your neurofeedback treatments. From the device connection check at startup, to EEG data acquisition and neurofeedback, the NeuroField Software is simple and straightforward.

Offering multiple databases with 100+ pEMF protocols and 40+ tDCS/tACS protocols, the treatment side of the NeuroField Software is loaded with options, offering ways to combine pEMF, tDCS/tACS, and HRV into one of the most advanced neurofeedback solutions possible. You are not limited by the prebuilt protocols either, with the Protocol Wizard you can customize your treatments to match your patient’s needs, from specific frequencies, to waveforms and durations.

While customizability may be powerful, the ability to target treatments can give you the ultimate advantage in neurofeedback, and that is exactly what the QEEG side of our software is designed to do. The NeuroField Software Suite has the ability to record a QEEG standalone to an EDF file for later analysis.

While recording a QEEG can help, real-time data is a massive advantage. Combined with the Neuroguide 19 channel Z-Score DLL, the NeuroField Software Suite gains the ability to run Real-Time Z-Score (RTZ). RTZ allows the QEEG to track brain activity and apply pEMF and/or tACS stimulation throughout the session based on customizable scoring thresholds.

All of these features make for an incredibly robust suite of software, and just to make patient tracking as easy as possible, NeuroField includes a patient database built into the suite. This patient database has fields for recording everything from personal info to coil and electrode placements, all while keeping a protocol history for each patient.

Included with NeuroField is an invitation to join the NeuroField Listserv, where practitioners from all over the world discuss treatment options and methods.

The treatment protocols are ever evolving, and the NeuroField software gives you the ability to be at the leading edge.
X3000 Accessories

**Coils**
200-Wind coil packs, designed for use with the X3000 or Plus stimulation units. These specially designed coil packs allow anear-field strength of 500 milligauss for pEMF treatment, and have Velcro on both sides to attach to the Velcro cap or allow stacking of the coils.

**Velcro Cap**
Our specially made caps designed to allow flexible placement of the 200-Wind Coil packs to be placed anywhere on the cap. One size fits all.

**HRV**
Our Heart Rate Variability monitor. Designed to work in conjunction with the X3000, the HRV allows you to tailor treatments based on muscle responses.

HRV Package Contents:
- HRV Unit
- HRV ear clip
- One RJ-45 cable
- One RRC2040 Battery Pack
- One Battery Pack Charger (100-240VAC)

$250.00 USD
Not including Shipping or Tax (CA Residents Only)

$75.00 USD
Not including Shipping or Tax (CA Residents Only)

$1200.00 USD
Not including Shipping or Tax (CA Residents Only)
Lexicor Cap and Ear Drops
Electro-Cap International E1-LEX Lexicor caps are what our Q20 are designed to work with. Also required are the E5-9S Ear Drops for references.

Specs:
- 10-20 electrode pattern
- Available in:
  - Extra Small (46-50cm)
  - Small (50-54cm)
  - Medium/Small (52-56cm)
  - Medium (54-58cm)
  - Large/Medium (56-60cm)
  - Large (58-62cm)

Signal Generator
A frequency generator for testing your Lexicor pinout amplifier. Plug and play with the Neurofield software suite, the signal generator can test your EEG amplifier through all major frequencies for any discrepancies.

- Without CanBUS: $295.00 USD
- With CanBUS: $590.00 USD

QCheck
Our latest release, a simple, integrated, electrode impedance meter. Designed to work with Lexicor pinout and the NeuroField Software Suite, the QCheck allows you to confirm the quality of your electrode connections quickly and easily when setting up a patient for QEEG or Z-Score purposes.

- Without CanBUS: $549.00 USD
- With CanBUS: $749.00 USD

Cap and drops $425.00 USD
Not including Shipping or Tax (CA Residents Only)
**Software & Universal Accessories**

**Neuroguide**
- Neuroguide Deluxe: $3395.00
- Neuroguide 19 channel LORETA Z-Score Neurofeedback [NF2]: $2500.00
- Neuroguide 19 channel Surface Z-Score Neurofeedback [NF1]: $2000.00
- Neuroguide Acquisition [NGA]: $1000.00
- Neuroguide 19 channel ANI Z-Score DLL for NeuroField: $2000.00
- Neuroguide LORETA Current Density Database [LOR]: $1200.00
- Neuroguide LORETA Coherence and Phase Database [LCP]: $1200.00
- Neuroguide Brainsurfer [SURF]: $2500.00

**CanBUS Adapter Kit**
Primary interface connection for our equipment. The USB/CAN adapter is required to connect any of our treatment or evaluation devices to your computer and is included with the X3000 Plus, Q20 EEG, tDCS/ACS.

**Kit Contents:**
- USB/CAN adapter
- CAN to RJ-45 adapter (attached to CAN)
- Two RJ-45 Cables

**Rechargeable Smart Battery**
RRC2040 Rechargeable Smart Battery Pack.

**Specs:**
- **Features:** Built in Battery Meter, Easy Pull Tab, CE rated
- **Type:** Lithium Ion
- **Voltage:** 11.25V
- **Capacity:** 2.95Ah
- **Weight:** 170g

**Battery Only:** $175.00 USD
**Battery & Charger:** $400.00 USD

Not including Shipping or Tax (CA Residents Only)

For a complete listing of Neuroguide Products and prices, visit: [AppliedNeuroscience.com](http://AppliedNeuroscience.com)
<table>
<thead>
<tr>
<th>Equipment</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>Primary Equipment</td>
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<tr>
<td>NeuroField X3000 Plus Package</td>
<td>Includes CanBUS kit, velcro cap, coils, and NeuroField software.</td>
<td>$3495.00</td>
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<td>NeuroField Q20 EEG Package</td>
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<td>NeuroField tDCS/tACS Package</td>
<td>Includes CanBUS kit, two electrode leads, two packs of electrodes, battery, charger, and NeuroField software.</td>
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<td>NeuroField HRV</td>
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All prices are USD, Shipping Not Included

Sales Tax for CA Residents only
About the CEO

Nicholas Dogris, Ph. D. founded NeuroField with Bradley Wiitala, BSEE in 2008 with the goal of producing a pEMF stimulation device for the purpose of helping to heal the mind and body. NeuroField has since expanded into QEEG and tDCS/tACS stimulation.

Dr. Dogris has been published in the Journal of Neurotherapy, and has headlined for the International Society for Neurofeedback & Research (ISNR), the Association of Applied Psychophysiology and Biofeedback (AAPB), and keynoted for the Western Association of Biofeedback and Neuroscience (WABN).