

SHIP TO:
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V.A. Medical Center
950 CAMPBELL AVENUE
WEST HAVEN, CT 06516

REQUESTING SERVICE: PSYCHIATRY(116A)

P.O.# 689-881004

Qty	Description
1	<p>TRIUX™ neo A comprehensive, state-of-the-art bioelectromagnetic measurement system for functional brain studies.</p> <ul style="list-style-type: none">• 306-channel neuromagnetometer• Internal helium recycling system• Internal active shielding system• Acquisition electronics cabinet• Feedthrough filter cabinet for MEG and EEG signal cables• Stimulus cabinet• Lifting unit• A high-end graphical Linux workstation, monitor, keyboard, mouse, data acquisition software, and data analysis software.• A 3D digitization system for digitizing anatomical landmarks, the head shape, as well as the locations of the head position coils and EEG electrodes• Installation accessories• Liquid helium transfer siphon• Liquid helium gauge for storage dewars• Head phantom and accessories• Head size checking helmet• Cryokit• System documentation• License for Data acquisition software• Site license for MaxFilter™ software.
1	<p>128-channel EEG system An integrated 128-channel EEG system and accessories.</p> <ul style="list-style-type: none">• An EEG amplifier with 128 unipolar channels.• One (1) 32-channel headbox for loose EEG electrodes.
1	<p>Two-layer magnetically shielded room A passive, magnetically shielded room with alternating layers of Permalloy (two layers) and aluminum (one layer).</p>

- Dimensions (external): 2.9 x 3.9 x 2.4 m (9.6 x 12.9 x 7.8 ft)
- Total weight: approximately 7,400 kg (16,300 lbs.)
- Site planning.
- A two-layer passive magnetic shield.
- Lighting.
- Coils for internal active shielding.
- Coils for external active shielding (external active shielding sold separately).
- Lighting.

1

Data analysis software, site license

A comprehensive analysis suite for magnetoencephalographic and electroencephalographic data acquired with TRIUX™ neo. A site license for up to 100 host computers for:

- Signal processor.
- Plotter.
- Source modeling.
- MRI integration.
- TRIUX™ neo Data Analysis software CD-ROMs.
- User manuals.
- Software licenses.

2

Data analysis workstation

A high-end graphical workstation for data analysis.

- 30-inch TFT monitor
- Keyboard.
- Mouse.
- Preinstalled Linux operating system.
- Preinstalled TRIUX™ neo Data analysis software (license sold separately).

1

Color printer

A network-enabled color printer for the analysis system.

- A 21-ppm color laser printer.
- Duplex unit.
- Network interface.

1

High-fidelity visual stimulator

A high-fidelity visual stimulation system for eliciting visual evoked fields.

- A zero-jitter 3-DLP video projector and lens.
- Non-magnetic 44" back-projection screen.
- Video projector table.
- Cabling.
- Remote control unit.
- Instructions for use.

- 1** **Auditory stimulator**
A binaural auditory stimulator for eliciting auditory evoked fields.
- Two (2) monaural tubal-insert earphone sets.
 - One hundred (100) disposable foam eartips.
 - Cabling.
- 2** **Somatosensory stimulator**
Electric somatosensory stimulus delivery system.
- 5** **Small-size 64-channel EEG cap**
A non-magnetic 64-channel EEG cap (size 47–53 cm) with sintered Ag/AgCl electrodes.
- 10** **Medium-size 64-channel EEG cap**
A non-magnetic 64-channel EEG cap (size 52–58 cm) with sintered Ag/AgCl electrodes.
- 10** **Large-size 64-channel EEG cap**
A non-magnetic 64-channel EEG cap (size 56–62 cm) with sintered Ag/AgCl electrodes.
- 10** **Medium-size 128-channel EEG cap**
A non-magnetic 128-channel EEG cap (size 52–58 cm) with sintered Ag/AgCl electrodes.
- 10** **Large-size 128-channel EEG cap**
A non-magnetic 128-channel EEG cap (size 56–62 cm) with sintered Ag/AgCl electrodes.
- 1** **Bidirectional intercom system**
A bidirectional intercom system for two-way communication between the patient, operator, and nurse.
- Intercom system with half.
 - Duplex and simplex modes.
 - Microphone.
 - Cabling.
- 2** **Video monitoring system**
A CCTV video monitoring system.
- CCTV video camera.
 - Monitor.
 - Cabling.

Note that two or more cameras may be required for optimal monitoring of the patient in different measurement positions.

1

Acquisition system UPS

An uninterruptible power supply kit for maintaining the TRIUX™ neo data acquisition system operational during power outage or voltage fluctuation.

- A 3,000 VA uninterruptible power supply for the data acquisition electronics.
- Cables.

4

Workstation UPS

An uninterruptible power supply kit for maintaining a workstation operational during power outage or voltage fluctuation.

- A 1,000 VA uninterruptible power supply for a single workstation and peripherals.
- Cables.

Note that a single UPS is sufficient for an one individual workstation.

1

Patient chair

Adjustable patient chair with accessories for comfortable seated measurement position.

- Patient chair.
- Table.
- Pillow set.

1

Patient couch

Patient couch for the supine measurement position.

- Patient couch.
- Detachable neck support.
- Removable guard rails.

1

Chair fine-adjustment system

A system for fine-adjusting horizontal position and backrest angle of the patient chair.

Requires patient chair (art. no. NM25910N).

1

Audiovisual Stimulus Presentation Workstation

A stimulus presentation workstation with either *e-Prime* (Psychology Software Tools, Inc., Sharpsburg, PA) or *Presentation* (Neurobehavioral Systems, Berkeley, CA).

Note that this item is for research purposes only.

1

TRIUX™ neo System start program

This is 10 day on-site training with a practical orientation divided into two parts. The objective is to give core users the opportunity to become proficient and to enhance their competence in the use of TRIUX™ neo.

- **Part 1** is held after installation and system integration. It is a 5-day tailored program delivered by assigned MEG experts to provide on-site application support. This can be conducted prior to the off-site introductory program, or within 6 months after installation. Lectures are open to a larger audience. Practical sessions are held for a maximum of six (6) attendees.

- **Part 2** is a 5-day follow-up training for a maximum of 6 core with 4-18 months usage of the system. This is delivered by one consultant who will focus on site requests.

Common program

- Principles and physics of magnetoencephalography
- System overview
- Acquisition workflow overview
- Analysis workflow overview
- Interference suppression methods

Core user program

- Paradigm and equipment setup
- Patient preparation
- Evoked response recording
- Spontaneous data recording
- Troubleshooting of data acquisition
- Analysis of evoked responses
- Analysis of spontaneous measurements
- Theory and application of interference suppression methods
- Training on additional components of MEG where applicable
- Reporting
- Quality assurance.

4

TRIUX™ neo Introductory program

This is a 5 day off-site training to introduce users or further consolidate their knowledge to TRIUX™ neo magnetoencephalography (MEG) system for clinical

and/or clinical research purposes. Lectures from leading experts, workflow observation and hands-on sessions for spontaneous and various evoked responses are included in the program at various training centers around the world. Depending on the availability of slots, this may be conducted 3 months prior to system start part 1 or within 6 months after installation of the system. The program is tailored to match the interests of the attendees based on the specialty of their MEG center.

- Principles and physics of magnetoencephalography
- System overview
- Site-specific lectures
- Workflow introduction
- Interference suppression methods
- Paradigm and equipment setup
- Patient/subject preparation
- Data acquisition
- Data analysis.

10

On-site consultancy, 5 days

A five-day on-site consultation to provide in-depth technical and/or scientific consultancy tailored to the specific needs/projects of the core team and delivered by an expert in the relevant subject matter.

Note that the price includes travel, accommodation, preparation, and follow-up before/after the consulting or training sessions.

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On-site spare parts depot

Most regularly required wear & tears as well as spare parts required during the course of one year of use.

1

High-performance computational workstation

- Dell PowerEdge T640 workstation
- Two (2) Dell Ultra HD 4K monitors

1

External active shielding system

Active noise cancellation device to protect the protect MEG system from environmental magnetic interferences.