

TruTrace[®] EMG HARDWARE

Deymed Engineering Advantages

Deymed manufactures reliable and high-quality neurodiagnostic and neurocare systems, but that's not all. Our goal was to advance the field to new heights with engineering innovation and creativity. Our aim was to develop a new kind of product, something the market has been looking for but could not find, until now.

Read below to learn of just a few engineering features that are changing the world of neurocare and neurodiagnostics:



Battery Operated with Intelligent Charging - Offering the highest signal quality possible and lasting months on a single charge, Deymed systems significantly reduce artifacts and outside noise by running 100% on batteries.



Intelligent Charging - Deymed's new ultra-low capacitance induction charging keeps the batteries full when the system is not in use. This ensures the highest quality signal is possible with full battery operation during sensitive neurophysiology tests.



High Sample Rates and DSP - Designed with Digital Signal Processor technology, Deymed systems can sample at very high sample rates while changing any parameter on the fly digitally. DSP offers numerous advantages over standard analog processing.



Fiber Optical Isolation - Optical isolation greatly improves signal quality and patient safety. This feature combined with long-lasting battery operation, offers the first of its kind and best-in-class technology for neurophysiological recordings.



Click N' Go Portability - No longer be forced to choose between purchasing a hospital cart or a portable system. Now you can have both! Easily detach your system from the cart with a single click and be on-the-go with a laptop.

System Configurations



TruTrace Traveler Configuration:
Laptop and Traveler with up to two EMG or Stimulator Headboxes.



TruTrace FlexiCart Configuration:
FlexiCart with integrated computer and up to two EMG or Stimulator Headboxes.

Note: It is possible to connect a Deymed TruScan EEG or SomniPro PSG headbox to any of these configurations.

TruTrace[®] EMG NCV/EMG/EP | SYSTEM

Product Specification:

EMG Amplifier:

- Number of channels 2, 4, 8 and 16
- Analog time constant 5s, short time DC
- Equivalent input noise 8 μ V e/f *
- Analog sampling frequency... 50 kHz per channel
- IMR 140 dB**
- Differential input impedance... 10 G Ω parallel to 35pF

* In bandwidth 0.5 Hz - 10 KHz with input impedance below 10 K Ω

** Battery Powered Devices use IMR instead of CMIR

Electrical Stimulator:

- Power output 100 μ A to 100 mA
- Polarity positive, negative, alternating, bi-phasic
- Impulse duration 50 μ s to 1 ms
- Maximum stim. frequency 250 Hz

Audio Stimulator:

- Maximum intensity 132 dB SPL
- Stimulation steps 1 dB
- Stimulation type click, burst, tone or programmable
- Polarity randomize, randomization or Alternate
- Stimulation duration 50 μ s to 80 ms
- Masking Contralateral Ipsilateral
- Masking intensity 0 to 120 dB
- Maximum stim. frequency 250 Hz

Deymed
DIAGNOSTIC

www.deymed.com

email: info@deymed.com

USA: 1720 N. 7th Ave, Payette, ID 83661, USA
tel.: 1-208-642-9300 fax: 1-212-504-3290

EU: Velky Drevic 91, 54934 Hronov, Czech Republic
tel.: +420 491 481 298 fax: +420 491 481 513

Asia: Dong Jin Bldg, #373; Yang Jae Dong, Seoul, Korea
tel.: +82 2 3461 5671 fax: +82 2 3461 5673

Other Deymed products:

TruScan EEG
Technically advanced EEG system built for demanding clinical and research use. The system can be configured as a portable, clinical or long-term monitoring station.

SomniPro PSG
Offers advanced polysomnographic mask retaining video monitoring and full EEG recording.

TruScan iRS
The TruScan iRS is a wireless EEG system built for mobile, clinical, TMS and ambulatory scenarios.

BrainFeedback BFB
Clinical grade Neurofeedback system designed for clinicians wishing to use the highest standard for Neurotherapy.

DuoMAG MP/XT
Introducing the all new Deymed line of TMS systems including rTMS and monophasic stimulators with advanced therapy, research and diagnostic features.

SomniPro xRS
Small light weight PSG ambulatory wireless system for clinical and home use.

Deymed Original Accessories
Complete line of accessories for clinical use.

World Wide Support & Service
Phone, Email and Remote Desktop Support for Superior Service.

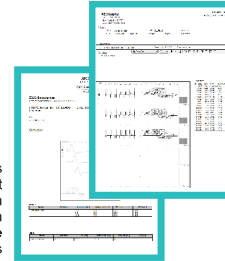
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TruTrace[®] EMG NCV/EMG/EP | SYSTEM



Deymed
DIAGNOSTIC

The first ever battery powered EMG system offering contamination-free nerve conduction, EMG and EP examinations.



Customizable Report Generator:

Reports are fully customizable to the users desired format. Quickly print any individual test summary or include more detail in a full session report. Customization can be made from an editable template using MS Word. Users have the option to select which tests or wave forms they want included in the report by using an easy to use checkbox menu.

System Features:

- Fully battery operated with Intelligent Charging for superior signal quality
- Intuitive "Dashboard Style" interface
- Ergonomic and full function EMG keyboard for ease of use
- Store, playback and review hours of EMG recordings
- Customizable summary reports for all tests in MS Word
- Custom Deymed hospital cart with integrated silent computer
- Instant portability with Click n' Go feature
- Quick impedance check during any test
- HL7 and network capabilities option
- Multiple users, each with own settings
- Friendly single screen setup for all tests
- Programmable Three Pedal Foot Switch
- Includes a starter kit of supplies
- Carrying case for portable use
- Unlimited buffer storage for Live EMG
- Offline data review with post editing of parameters
- Fully searchable patient database

Standard Modules:

- MNC
- SNC
- F-Wave
- H-Reflex
- Inching
- Repetitive stimulation
- Blink Reflex
- Needle EMG
- Willison and T/A analysis
- Automatic Multi MUP
- Single MUP and Manual MUP
- Patient Database
- Custom template reports

Optional Modules:

- Voluntary Single Fiber
- Stimulated Single Fiber
- Fiber Density
- R-R Interval / Valsava
- SSR
- Macro EMG
- SEP
- AEP/BAEP
- VEP
- P300
- MEP

The EMG Traveler can be added as an accessory to your Hospital Cart configuration thanks to the Click-and-Go portability of Deymed's battery powered headboxes. Any headboxes from the Hospital Cart can easily be detached and connected to your EMG Traveler.



Service, Support and ePortal:

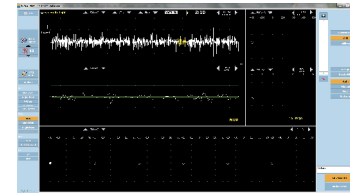
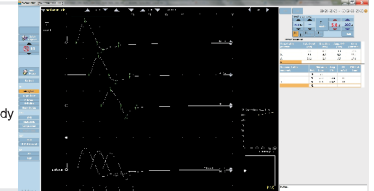
All Deymed systems are backed by a team of dedicated professionals that give world-class support utilizing the latest in service technology. Remote Desktop Control allows any internet connected system to be troubleshooted by a Deymed technician. In the event that the problem can't be solve, a service technician can always be sent on-site for full assistance.

In an effort to ensure all users are satisfied with their Deymed equipment, users are encouraged to visit the Deymed Service Portal where you may register an account for fast access to all your Deymed related needs. Some uses of the portal include entering trouble tickets or downloading the latest software for your device. You may also track your orders placed via the Deymed e-shop such as accessories, software upgrades or hardware additions. To find out more visit us at Deymed.com

Software Features

NCS, F, H & Repetitive Studies:

- automatic cursor placement
- left vs right comparisons
- on-the-fly changes to test protocol
- live signal monitor for artifact detection
- unlimited re-test & return to previous study
- overlay channel for quick comparison
- mixed-mode for custom combinations
- single screen setup for all parameters

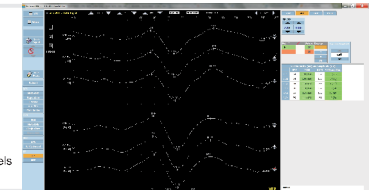


Needle EMG & MUP:

- Free running or Triggered
- LiveScroll Playback with audio (up to 1 hour)
- Muscle scoring table with quick entry
- Cascade, Stack or continuous view modes
- Online Motor Unit Analysis
- Single Motor Unit Analysis
- Turns/Amplitude analysis
- Detailed or Quick Summary Report
- High resolution view for multiple channels

Evoked Potentials:

- AEP, VEP, P300, SEP, MEP, ERG
- custom protocol setup
- Right-Left side compare
- Add, subtract, average, even, odd
- Drag signals up and down via mouse
- Post re-filtering of any test
- Advanced artifact reject algorithm
- averaging bins for multiple trials
- reject runs from average on one or all channels



Superior Results with Deymed:

Deymed systems have been developed with feedback from users like you. Our goal is to create products that makes your job easier, therefore we strive to continually improve and customize our systems to exceed your expectations. If there is any feature that you would like to see implemented, please let us know, that's what we're here for.