

TruScan[®] EEG 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.



Always On Impedance - Always-on impedance monitoring allows the user to never have to wonder if the electrode impedances are out of range during a recording. One of the many advantages of high sampling and DSP processing.

System Configurations



Portable EEG Config:
Laptop with up to two 24 or 32ch EEG headboxes connected to the USB adapter.



FlexiTrolley EEG Config:
Computer with FlexiTrolley and photo-stim, with up to two 24 or 32ch EEG headboxes connected to a USB adapter.



FlexiCart EEG Config:
FlexiCart with integrated computer and photo-stim, with up to two 24 or 32ch EEG headboxes connected to a USB adapter.



FlexiCart EEG LTM Config:
FlexiCart with integrated computer and photo-stim, with up to two 24 or 32ch EEG headboxes connected to a USB adapter and two Sony camera's and infra-red lamp.

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

TruScan[®] EEG EEG / EP / LTM | SYSTEM

Product Specification:

● Number of channels	24, 32, 64, optional up to 128
● Bandwidth (+0 -3dB)	16-450 Hz per channel
● Analog time constant	1s, optional up to 10s
● Equivalent input noise	1 μ V-p-p *)
● Analog sampling frequency	4,096 Hz per channel
● IMR	140 dB
● Differential input impedance	10 G Ω parallel to 35pF
● Power supply	High capacity battery
● Uninterrupted operation	180 hours
● Dimensions (WxHxD)	100mm x 50mm x 220mm
● Weight	350g

*) in bandwidth 0.1 Hz - 100 Hz with input impedance below 10 K Ω



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Other Deymed products:



TruTrace EMG
The first ever battery powered EMG system offering comfortable rest condition and needle EMG examinations.



SomniPro PSG
Offers enhanced polytomographic data including video monitoring and full EEG recording.



TruScan RSE
The TruScan RSE is a wireless EEG system built for routine clinical, LTM and ambulatory recordings.



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 LTM
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



Distributed by:

TruScan[®] EEG EEG / EP / LTM | SYSTEM



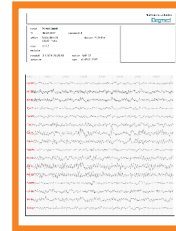
Deymed
DIAGNOSTIC

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



Report Generation:

The report generator includes a rich text interpretation editor with pre-saved phrase libraries of your most used sentences. Any on-screen waveforms may be included as well as brain maps or screen capture of other analysis tools. Reports are automatically saved in the patient database.

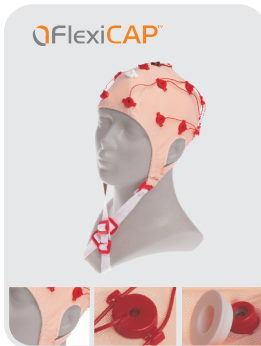


System Overview:

The TruScan system offers the latest in functionality for EEG systems in a small compact amplifier design that runs completely on batteries for months of use on a single charge. It's versatility allows it to be used in both portable and workstation scenarios. When used with a hospital cart, you can quickly detach the amplifier to go portable with a laptop. Great care has been taken to simplify the recording process by implementing a user interface that includes large buttons and no hidden menus. All controls are at your finger tips in this "Dashboard style" layout. Easily connect your system to a hospital network with HL7 and share the patient records and database with any authorized computer. Overnight and LTM recordings include Remote Patient View that sends the video and EEG data over your network using UDP protocols. Optional upgrades include VEP, P300's and MPEG-4 synchronized video with Picture in Picture.

Product Features:

- Always-on impedance check for all electrodes
- Battery operation for superior signal quality
- Complete set of original Deymed accessories
- Unlimited custom montages
- System capable of up to 128 channels
- High resolution MPEG-4 video
- Improved dual camera Sony PTZ HD video
- 300 hours of LTM recording
- USB connection for optical adapter
- Custom hospital cart with silent computer
- Back-up to DVD or removable disk
- Easy output of data for clinical presentations
- Integration to hospital network of IT system
- Export to other EEG/ERP data formats
- Networked video server for multiple-station
- VEP/P300 post-review
- BrainFeedback add-on for Neurotherapy



Service, Support and ePortal:

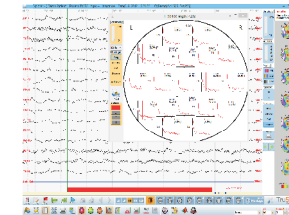
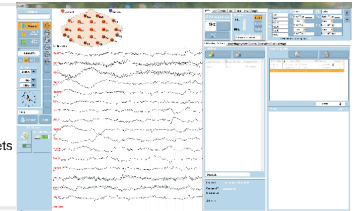
All Deymed systems are backed by a team of dedicated professionals that give world-class support utilizing the latest in service technology. Remote Desktop Control allows any internet connected system to be troubleshooted by a Deymed technician. In the event that the problem can't be solve, a service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

TruScan Acquisition:

- Dashboard interface with large buttons
- Easy recording with minimal user setup
- Integrated patient database
- On-screen always-on impedance monitor
- visual drag and drop montage creation
- unlimited saved user montages
- programmable photo-stim setup with pre-sets
- P300, VEP and Neurofeedback modules
- Patient remote alarm and event trigger

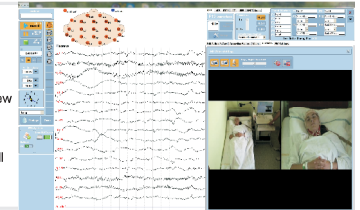


TruScan Explorer:

- Full set of review tools including Brain Mapping
- EEG Traveler with CD/DVD Burning built-in
- Interpretation editor with custom phrase pre-sets
- Database with un-interpreted To-Do list
- Full search and sortable patient list
- LORETA, Matlab and Excel output of data
- Spectral Analysis overlay of multiple segments
- Synchronized frame by frame with video
- EP epoch generator with full post-analysis
- Common controls via keyboard shortcuts

HD Video Monitoring:

- HD PTZ cameras for close-up and full view
- Side-by-side dual view capture to one file
- Video trimming to save hard disk space
- Infra-red lamp for crystal-clear night time view
- High quality MPEG-4 video
- Remote Network Patient Viewer
- Multi-room monitoring (2 beds per viewer)
- Out-of-the box pre-wired video for fast install
- Mounts to Hospital cart for portability
- Wide-band microphone with high sensitivity



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.