



grael-HD[®]

HIGH DEFINITION **eeg**

High Definition Mobile Clinical EEG Workstation

Cart configuration may vary depending on country.

See More and Do More

grael[®] EEG

HIGH DEFINITION

Compumedics Grael HD-EEG Diagnostic and Monitoring EEG System

There's more to see with High-Definition EEG!

For clinical diagnostic EEG studies and pre-op and post-op assessments the Grael HD-EEG system blends the latest digital amplifier technology with powerful software packaged in a custom designed cart that is mobile, convenient and flexible.

Integrated with our advanced neXus Lab Management System, the Grael HD-EEG System delivers a fully-featured solution for managing and maintaining patient and study data with an optional interface to the facility EMR (via HL7) and secure remote access.

Key Features of Grael HD-EEG system.

- 32-referential channels
- DC coupled amplifier - bandwidth DC to 580Hz
- High resolution 24-bit sampling simultaneous across all channels
- High sampling/storage rates – up to 2048Hz on all channels
- 8 bipolar inputs for ECG or EMG leads
- Integrated HD-PulseOx oximeter
- Convenient connections for event button and photic strobe
- Connector for passive Jackbox or “Quik-Cap” electrode cap
- Ergonomically-designed cart system manages cables and supplies
- Advanced clinical software, supporting
 - unlimited montage options,
 - multiple digital video display windows
 - quick review
 - automated report generation



The Grael HD-EEG System is one of the best available solutions for clinical EEG.

The thoughtfully-designed workstation provides the mobility ideal for theatre ICU and ward clinical EEG monitoring.

Optional HD Video Camera for VEEGs, Pan-tilt-zoom (PTZ) available
High-intensity LED Photic Strobe

Grael HD-EEG 40-channel Amplifier
Mounted on the arm of the cart to allow easy positioning near the patient.

Secure mount for screen monitor

Strong yet light-weight construction to handle the rigors of daily use

Height adjustable workspace with 'easy-to-use' handle for ergonomic comfort

Plenty of storage for supplies and accessories in a convenient rear location

Management of cables and cords

Integrated isolation transformer

Sturdy, heavy-duty casters with both swivel lock and brake lock.

The Grael HD-EEG - See more and do more.

The Grael HD-EEG digital amplifier is the most advanced clinical EEG System on the market, with the latest in digital signal processing technology. This system is designed to record high-definition EEG, with a wide bandwidth (DC to 580Hz), captured at 24-bit resolution at sampling rates up to 2048Hz. The Grael HD-EEG system records both extremely low-frequency events as well as high-frequency oscillations.

Detachable Jackbox for easy setup and offering simple clean up. The Grael HD-EEG amplifier is arm mounted for easy positioning near the patient. A Jackbox is provided with a 6 meter cable.

The system supports an optional digital high-resolution camera on multi-position mount or a software controlled, motorized pan-tilt-zoom (PTZ) digital camera.



Grael HD EEG Amplifier



Grael HD EEG Jackbox

Powered by



Unlimited Potential in Routine EEG,
LTM EEG and Beyond

Best in Class EEG Application Software

Compumedics Profusion EEG is the true next generation clinical and LTM software package that offers unprecedented ease of use both in the EEG lab, and in post-recording analysis and review. Developed in close consultation with EEG clinicians and neurologists, it is designed for easy navigation and editing of up to 45 days of continuously recorded EEG. With high sample rates (up to 10 kHz) and high channel densities (up to 512 channels) and a full suite of editing operations such as marking, deleting and copying while recording is in progress, Profusion EEG offers unlimited potential in any EEG laboratory.

Clinical EEG Features

Next Generation Montaging System

- Next generation montage editor allows easy manipulation of any aspect of a montage on the fly
- Complex montages with weighted averaging can be created
- Montage changes are applied in real time so that any change is immediately available in concurrently opened review sessions
- Electrode mapping allows dynamic assignment of patient electrodes to amplifier channels

Unprecedented Video Quality

- Top end video resolution for unprecedented video clarity and superior digital zoom capabilities: Full HD resolution 1920 x 1080 at 30/25 frames per second
- Video is frame-locked to EEG data so waveforms and video are always precisely synchronized
- Open multiple video windows simultaneously with different zoom and pan in each window

Easy Event Annotations

- Single-keystroke or single-mouse-click operation for easy insertion of annotations and other events
- Comprehensive event navigation including custom search function e.g. find "head/eyes to the right" events
- Define your own event categories to group similar events
- Define your own most used annotations and insert any one with a single keypress

LTM-EEG Features

Intuitive Study Navigation

- Intuitive study navigation via drag-and-click functionality
- Complex displays calculated in the background allowing full use of the application as they are generated
- Jump to events at the press of a button
- Fast screen updates on high density recordings
- Multiple synchronized windows with different timebases
- Ease to follow summary bars that highlight events in the study
- Mix summary bars and spectrograms with EEG traces to create hybrid displays

Live Editing System

- Edit studies with full suite of operations while recording is in progress
- Summary and Trace views synchronize your selections allowing easy relation of the overall view to detailed EEG data
- Define multiple selections of EEG and edit them simultaneously

Intelligent Reporting

- Intelligent reporting engine allows instant in-place customization of report templates
- Easily make your own templates inside the application, with Microsoft Word, or your favourite text editor
- Easily select and tag EEG snippets to place into reports
- Export reports to PDF or Microsoft Word formats
- Extensive user-defined report fields

Powerful Analysis Features

- Integrated analysis by Persyst software
- Powerful on-screen measuring tools
- Drag'n'drop trace and event overlays to allow easy visual comparison
- Spectrogram - an alternative way to display EEG traces
- Visualize EEG data with 3D Brain Mapping
- Easy "plug-in" of new analysis tools as they are developed by Compumedics or third parties

The Ultimate Lab Management Tool-



ProFusion EEG4 integrates directly within the ProFusion **nexUS Lab Management System** to optimize workflow and enhance efficiency in your diagnostic or research laboratory. ProFusion nexUS is extremely flexible and securely manages and helps control data in any study setting. Whatever your requirements, no matter how large or small your lab, you'll benefit from the impressive capabilities and efficiency offered by ProFusion nexUS including available HL7 interface to your facility EMR, and support for advanced data archiving solutions.

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