

Compumedics vista

A COMPUMEDICS CLIENT UPDATE ISSUE 22, 2010

CELEBRATING
over
20 YEARS
of SLEEP
DIAGNOSTICS
EXCELLENCE
Since 1987

University Medical Center in Freiburg, Germany chooses Compumedics' new LTM EEG system, **Neuvo®**, ahead of all major international competitors.

Leading Australia-based medical devices company, Compumedics Limited (ASX: CMP) is pleased to announce that the internationally renowned University Medical Center (UMC) in Freiburg, Germany has chosen Compumedics' recently released, long-term EEG monitoring (LTM) system, Neuvo®, to equip its world class epileptology (epilepsy) center.

UMC Freiburg is the teaching hospital within the University of Freiburg which is considered to be one of Europe's most prestigious universities attracting students world-wide. It is recognised as the home of some of the greatest minds, including affiliation with 19 Nobel laureates and 13 academics who have been honored, while working at the University of Freiburg, with Germany's highest research prize - the Gottfried Wilhelm Leibnitz Prize.

UMC Freiburg has an annual budget in the order of EURO500 million to service 1,600 beds, 55,000 in-patients and 357,000 out-patients each year. UMC Freiburg employs about 7,750 medical staff.

The winning of the UMC Freiburg Epileptology centre tender is a major milestone for the Compumedics' Neuvo® LTM system, which incorporates the industry gold-standard Compumedics®/Neuroscan® CURRY® source-reconstruction software and the Compumedics®/Nexus clinical enterprise system.

The decision by UMC Freiburg to choose Compumedics' new Neuvo® LTM system over all major international competitors was primarily driven by Compumedics':

- ability to deliver premium quality, high-definition amplifiers
- fully integrated laboratory management tool, Profusion™ Nexus™, a high productivity software package for managing all aspects of the day-to-day running of the laboratory plus its electronic data storage and retrieval requirements;
- advanced state-of-the-art digital video and audio recording capabilities; and
- integration with Compumedics®/Neuroscan® gold-standard CURRY® source-reconstruction software.

This installation marks the start of Compumedics' new Neuvo® LTM system global roll-out, where the market opportunity in the US is in excess of \$300m per annum and in Europe is more than \$250m per annum. The Neuvo® LTM incorporates unsurpassed quality recording, comprehensive analysis and integrated data management and workflow, which are hallmarks of neurology clinical and research excellence.

Compumedics is now in the process of strengthening its Neuvo® LTM system distribution channels across Europe, which provides an exciting opportunity for new Compumedics distributors who are looking for product differentiation and best-of-class LTM neurology system offerings. Compumedics has received a number of high calibre applications for Neuvo® LTM distribution and the Company will continue to update the market as these new contracts and associated global LTM neurology incremental revenue strategies progress.



Compumedics
64 Channel Neuvo
trolley configuration
system.

INSIDE

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Extract from the ASX announcement. Please visit the Compumedics website for the complete story.

Distributor partner enquiries welcome.
Please email us at marketing@compumedics.com.au



Grael - HD PSG & EEG

Innovation from **Compumedics**.

grael™

True High-Definition PSG Signals

- > High Definition PSG
- > One-box, One-cable
- > Fully Integrated AASM Signal Set

HD PSG



**Now with
FDA 510 Market Clearance!**

Now for sale in the USA!



Input signal



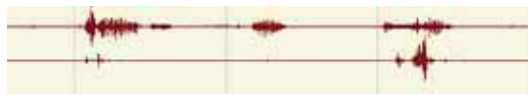
Recorded signal from traditional AC-coupled amplifier



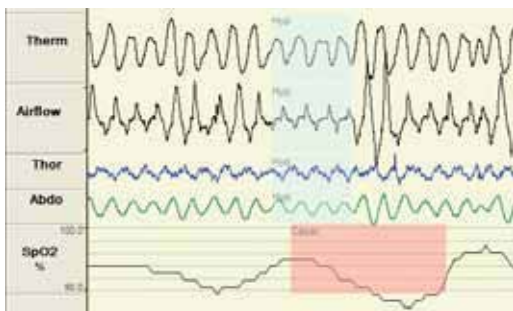
HD signal from Grael



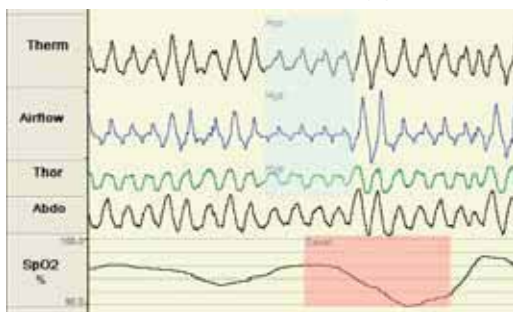
Traditional Limb EMG



HD Grael Limb EMG



Traditional oximetry performance



HD Grael oximetry performance

High Definition PSG

- Full PSG in **High Definition**
- 24-bit amplifier - **The first of its kind**
- DC-coupled inputs - **See what is really happening** (see right)
- Differential ECG and EMG provide unparalleled signal quality
- Calibrated flow measurement
- Respiratory impedance signal from ECG leads
- Optimised for research applications
- Exceptional noise and artifact rejection
- Exceeds all AASM Digital Specifications

Built for improved efficiency

- Quick disconnect for increased ease of use
- Convenient Bed-side impedance checking with "Light-up-impedance"
- Labeled to current AASM guidelines
- Ideal spacing of touch-proof connectors for easy access
- Cradle can be desk or wall mounted to suit any environment

One-box, One-cable solution

- All connections are integrated
- Built-in light sensor
- Sleep-optimised oximeter
- Integrated RIP band technology
- New high sensitivity microphone
- "Calibration-free" position sensor
- A single cable to the Grael provides both power and data transmission

Compumedics

the World of Sleep at your finger tips



Unrivalled Solutions

Recording Devices

- ✓ World's first High Definition PSG
- ✓ Wide range of Amplifier solutions
- ✓ Hardware meets Compliance Recommendations for each Class
- ✓ Wireless Connectivity including 802.11 & Bluetooth options
- ✓ Over 20 years experience building trusted, reliable PSG/EEG systems

ProFusion PSG 3





- ✓ Compliant with all current recommendations
- ✓ Comprehensive Scoring interface
- ✓ User customized MyWorkspace™ interface
- ✓ Simple to use Report Wizard
- ✓ Advanced Research Applications
- ✓ Comprehensive PSG/ECG full data disclosure analysis
- ✓ Software tailored for HST

ProFusion NeXus

- ✓ Clinical enterprise software for streamlined efficiency & productivity
- ✓ Comprehensive HIS/HL7 Integration options
- ✓ Remote access options
- ✓ Patient Scheduling options

Compumedics provides an unmatched spectrum of Sleep products, ranging from Home Sleep Testing (HST), to premier in-lab solutions. All seamlessly integrated with our customized ProFusion Suite and NeXus Lab Management Software.

Compumedics - Your complete solution.

Type III/IV	Type I/II	Type I	Premier Type I Clinical & Research
 Somté	 Somté PSG	 E-Series Siesta 802	 NEW! Grael - The world's first HD PSG
ProFusion PSG 3 Software		Gold standard Sleep Software Suite with industry proven Automatic Sleep Staging.	
ProFusion NeXus Lab Management System		Clinical Lab Management Solutions for enhanced productivity and efficiency.	



Compumedics Neuroscan releases SCAN 4.5!

Compumedics Neuroscan is pleased to announce the release of the Scan 4.5 software.

Scan 4.5 was developed primarily to operate our latest amplifier, the *SynAmps Wireless amplifier. This is a 32 channel AC amplifier that communicates with our Scan software via a wireless network and allows self contained portable recordings. This frees you to conduct studies anywhere in the lab or in real world environments, with recordings lasting approximately 24 hours. Special "peeking" functionality allows you to use SCAN 4.5 to look in on the recording at any time. The *SynAmps Wireless is fully compatible with our Stim2 system for stimulus presentation.

In addition to running the *SynAmps Wireless amplifier, the Scan 4.5 version will run in the Windows Vista operating system (all Amplifiers). Scan 4.5 now runs in XP 32 bit, XP 64 bit, and Vista 32 bit operating systems. Analysis will run in Vista 64 bit, but not acquisition.

In Scan 4.5 we have also changed the way data is collected, and this allows for greatly improved File Recovery. Rather than writing the event table at the end of the recording, it is now updated frequently during the recording. Prior to Scan 4.5, if acquisition terminated unexpectedly, there was a good chance you would lose the events in the data file, and the file itself might not even open. In Scan 4.5, the File Recovery functionality will salvage nearly all of the data files that might otherwise be completely corrupted.

Additional modifications have been added, including improvements in impedance measurement. A condition that was causing occasional freezes in Edit has been fixed. Other changes were made to improve the stability of the program.

We have gone "electronic" in Scan 4.5. That is, all user related documentation is now presented in compiled Help File format. This makes it easier to look up information. PDF versions are also included, which are preferred if there are sections you wish to print out.

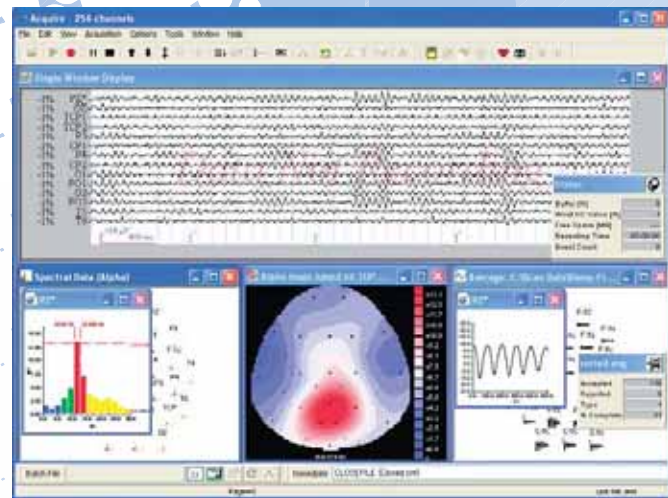
The Scan 4.5 software is a complete installation, not a patch. Uninstall your existing version of Scan (recommended, but not necessarily required), and run the 4.5 installation. There is no charge for the 4.5 update (assuming you have a version of Scan 4 already). The installation may be downloaded here:

SCAN 4.5 Download - note, this link opens in a new window to our corporate download site. This is a very large download and may take several hours to download depending on your connection speed.

Contact techsup@neuroscan.com for download instructions.

For more information, please visit www.neuroscan.com

* Please contact your local Compumedics representative for product availability in your area.



INTERNATIONAL NEWS

Continuing Compumedics' proud participation at Medica for over 15 years

Compumedics celebrated another successful Medica in November 2009 with the launch of new products across the Company's various product groups. The latest sleep diagnostics innovation, the High-Definition "**Grael**", was very well received together with the latest generation neurophysiological monitoring EMG/EP solutions from Compumedics - **Xegis Forte*** (5 and 9 Channel EMG/EP) and **Xegis G:Neo*** (2 channel, 1 box solution).

*This product is not presently for sale in the USA. Pending FDA clearance.



The Neuroscan School in Suzhou, China. Our second largest in China!

With approximately 150 participants, the Suzhou Neuroscan School was Compumedics second-largest ever school to be conducted in China.

The school ran from 16th to the 20th of November, 2009 and ran in two parts. The first part of the workshop was conducted in Mandarin, by Lun Zhao of FISTAR and covered the principles of ERP analysis. This was followed by the CURRY component, which was conducted by Dr. Michael Wagner, Ph.D., senior Compumedics Neuroscan scientist.

The Neuroscan school was co-sponsored by Compumedics' Neuroscan China representative, Fistar.

An account by Dr. Michael Wagner:

(CURRY6 school lecturer and senior Compumedics Neuroscan scientist)

The course proper went very well, with emphasis on the basic sequence of EEG processing steps and CURRY's features for ERP files, including group analysis and condition comparison, and a joint MEG-fMRI analysis as the highlight and outlook. The afternoon of day 2 was used for demonstrations using data the participants brought to the podium. During breaks, participants were able to catch up and ask questions.

A majority of the participants had exposure to Neuroscan solutions and were all keen to learn and experience the versatility and power of CURRY 6.

This is my fifth year as an instructor on CURRY workshops in China, I have the impression that providing education opportunities like this uniquely positions Neuroscan in China and lays the foundation for a long-lasting customer relationship.

Pic: The participants with Lun Zhao, Dr. Michael Wagner center front row (both wearing yellow lanyards) and Dr. Robert Liao.



INTERNATIONAL NEWS

Pic Left: From left to right: Edner Rodríguez (Intelimed-Mexico), Italo Grossi (Andover-Chile), Marcelo Alves Gomes and Hugo Busson (Biolink Medical Brazil).

Pic far left: From left to right: Italo Grossi (Andover Chile), Jackson Cionek, Hugo Busson and Marcos Paranhos (Biolink Medical Brazil).



Compumedics at the 'World Association of Sleep Medicine', Sao Paulo, Brazil

Nov 7th - 11th, 2009



Compumedics at the 'Hong Kong ENT Doctor Annual Conference' represented by Hometech Medical - October, 2009

Photo left: From left to right: Mr. Jacky Yu, (Territory Manager – Hometech Medical), Dr. Fung Kai Bun, (Ex-President of HK Otorhinolaryngologist Society), Mr. Reddy Lau, (Marketing Manager –Hometech Medical).



Compumedics in Mexico, represented by Intelimed

at the 'XXXIII Annual Reunion of the Mexican Academy of Neurology'

Cancún, México -15th to 21st November, 2009

and the 'VIII Mexican Sleep Meeting'

Xalapa Veracruz, MEXICO - 4th to 6th December, 2009

Photo above: From left to right: Edner Rodríguez (Intelimed-Mexico) with Dr. Juan Carlos Reséndiz Aparicio (a director of the Academy).

ASA Fun-Run 2009 Melbourne, Australia

The **Australasian Sleep Association Meeting** held in Melbourne in 2009 included the **Inaugural ASA Fun-Run** as part of the social events. The event was sponsored by Compumedics, initiated by Maree Barnes and Stephanie Blower with organisation by Christopher Worsnop. The event was a great success! Participants braved the 7am and 7^o Celsius start and ran or walked either the 4km or 8km course around the Melbourne Botanical Gardens' famous 'Tan Track'.

Congratulations to: Tom Churchwood, Christopher Worsnop and Chris Pantin, (first, second and third) in the mens 4km event and Chloe Parsley, Joanna MacLean and Jackie Eritna (first, second and third) in the womens 4km event. Daniel Smith, James Ward and Warren Ruehland (first, second and third) in the mens 8km event and Jen Walsh, who ran third overall, Angela Campbell and Gitta Lamond (first, second and third) in the womens 8km event.

Thanks to all who participated making it such a great success!

Compumedics presents
**The Inaugural
Australasian Sleep Association
Fun Run 2009
Melbourne**

Quik-Tips

for profusion^{compumedics} PSG 3TM

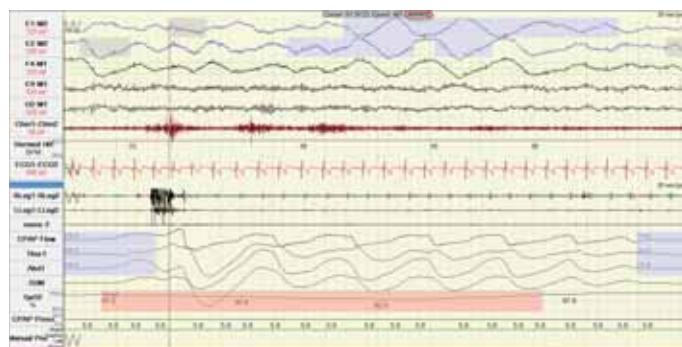
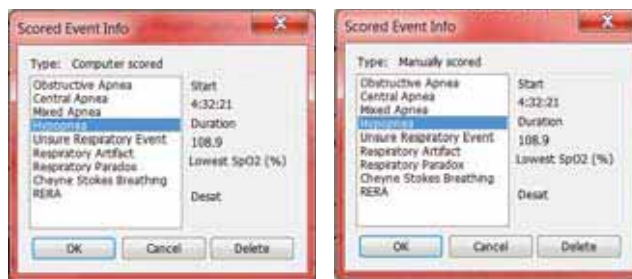
How to include respiratory events that occur during wake epochs.

Typically, respiratory events occurring during wake epochs are omitted from the apnea/hypopnea index (AHI). This includes events that have an onset during epochs of wake, but continue into one or more epochs of sleep. This can result in an under-estimation of the AHI in subjects with severe OSA.

Profusion PSG 3 installs report fields that allow you to include all events. These codes can be found in the Microsoft Word plug-in- Profusion PSG 3 Report Wizard – under the categories CPAP – Manually Scored Events with onset in Sleep Time, and Manually Scored Apnea + Hypopnea with onset (Sleep). The fields in these categories include all respiratory events during epochs marked as sleep stages as well as all respiratory events that have been manually scored regardless of the epoch stage. Events marked by the automatic analysis that occur in wake epochs are omitted unless they have been verified. To verify computer-scored events, click on the event to open the Scored Event Info dialog, then click OK to verify.

Note that this is not the standard method for calculating the AHI, but can be used to provide clearer information when faced with severe sleep fragmentation.

In the sample (pictured right) the event at the END of the epoch would not be counted using the Sleep codes but would be counted using the Sleep + Manual codes provided the event was manually marked.



EVENTS UPDATE

S Sleep, N Neuroscan, D DWL, NS Neuroscience, G General

FEB - 10

International Stroke Conference 2010 Feb 24 - 25 **D** Texas, USA

MAR - 10

MagLink School USA Mar 1 - 4 **N** California, USA

German Pneumology Society Mar 17 - 20 **S** Hannover, Germany

German Society for Clinical Neurology (DGKN) Mar 18 - 20 **N** Halle, Germany

Thoracic Society of Australia & New Zealand (TSANZ) Mar 20 - 24 **S** Queensland, Australia

Northeast Sleep Society (NESS) Mar 26 - 27 **S** Boston, USA

Biomag 2010 Mar 28 - 31 **N** Dubrovnik, Croatia

APR - 10

American Academy of Neurology (AAN) Apr 10 - 17 **NS** Toronto, Canada

Full SCAN and CURRY School Apr 12 - 16 **N** Derby, United Kingdom

Southern Sleep Society Apr 15 - 18 **S** Texas, USA

Cognitive Neuroscience Society (CNS) Apr 17 - 20 **NS** Montreal, Canada

MAY - 10

North Carolina Society of Electroneurodiagnostic Technologists (NCSET) May 10 **N** North Carolina, USA

81. Jahresversammlung Deutsche Gesellschaft HNO-Heilkunde (German ENT Society) May 12 - 16 **S** Wiesbaden, Germany

JUNE - 10

Associated Professional Sleep Society (APSS) - Sleep 2009 Jun 5 - 9 **S** Florida, USA

Human Brain Mapping (HBM) Jun 6 - 10 **N** Barcelona, Spain

SCAN & CURRY School Jun 11 - 15 **N** Barcelona, Spain

Information on
Compumedics' events
is available at:

www.compumedics.com

> Home > News > Upcoming Events

(Check back regularly for updates)

ABOUT COMPUMEDICS

Since 1987, Compumedics Limited has emerged as a world leader in the design, manufacture, and sales of diagnostic sleep, neurophysiology, research and transcranial Doppler systems. Compumedics' design expertise in the area of portable recorders and wireless data transmission is just one reason for our continued double digit growth in the USA year after year. Compumedics is improving people's lives through products, exceptional service and a full range of consumables and accessories brought to you by dedicated people who care.

THE COMPUMEDICS DIVISIONS *Defining Life's Signals*

Compumedics' operations consist of five divisions - each with its own product focus



Compumedics Sleep
Clinical Diagnostic Systems
for Sleep Disorders



Compumedics Neuroscan
World-leading Research
EEG/ERP systems



Compumedics Neuroscience
for Neurophysiology
Clinical Diagnostic Systems



Compumedics Neuromedical Supplies
Electrodes, sensors
and Sleep laboratories
and supplies for Neurology



Compumedics DWL
Ultrasound Doppler Systems



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