



compumedics  
profusion<sup>PSG</sup>3<sup>TM</sup>

Custom built *by* for you.



COMPUMEDICS  
'Defining Life's Signals'

Something  
for you,  
and you  
and you!



Compumedics has designed the all new **Profusion PSG 3** suite of software by putting the needs of every user first and thus has created the software around the needs of everyone! The result is software offering ease of use without loss of function, flexibility without complexity, and more information than ever presented just the way you want. But most of all **Profusion PSG 3** meets the need to increase efficiency in daily tasks as well as those less frequent, more obscure tasks that can hinder productivity.

## Tools for you, the Recording Technologist.

**Decision Assist** - Aids deciding when to start CPAP titration in a split night study. Use the AASM recommended criteria or make your own targets concerning sleep and REM time, respiratory disturbances and oxygen saturation levels. Intuitive color coding emphasizes the current values of each criteria and prompts you to start the titration.

**New Charting Tool** - A handy reminder to chart observations. User defined forms that pop-up at pre-defined intervals.

**On-Line Trend View** - Makes it easier to follow trends. Provides extensive information including any scored events, particularly useful during CPAP or Bi-level treatment.

**Fully Synchronized Digital Video/Audio Recording** - Full control at your fingertips. With digital pan, tilt and zoom features to record patient activity throughout the night.

**High/Low Visual Alerts On Calibrated Channels** - Helps ensure critical events are not missed.

**Drag-And-Drop Traces** - Fast and simple. Simply drag traces off screen to delete, drag in from a list to select.

**Flow Volume Loops** - The easiest way to monitor upper airway resistance.

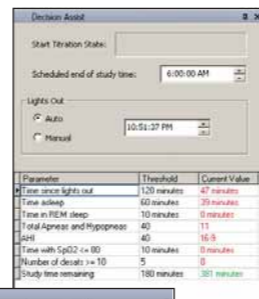
**Konno-Mead Loops** - Visual breathing analysis tool. Identify periods with increased work of breathing or paradoxical breathing.

**Online Respiratory Rate** - Quick on-screen calculation. Assists in monitoring subjects, especially in pediatric patients.

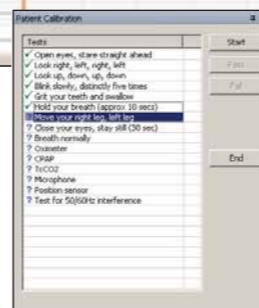
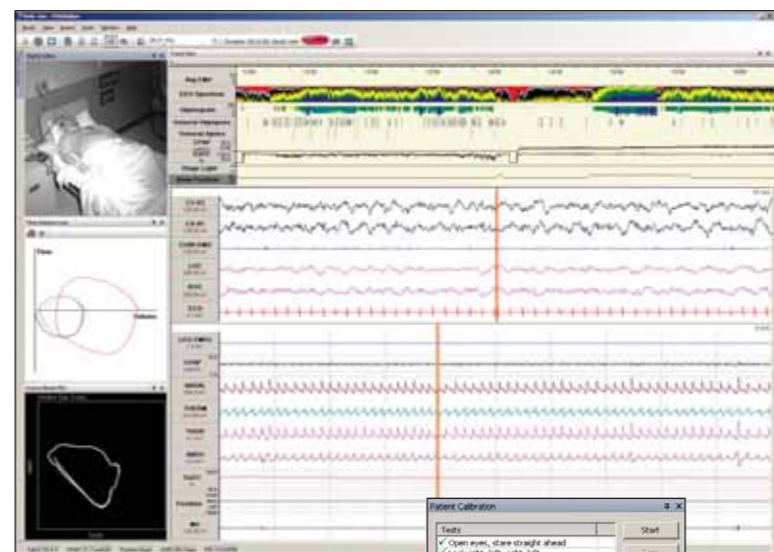
**Simple Patient Calibration Routine** - Conveniently and safely saves calibration data separately from the study data.

**Graphic Device Calibration Display** - You choose the best method for your situation, linear or non-linear e.g. logarithmic, sigmoid etc.

**Integrated Pageback** - Our popular feature has been enhanced! Full automatic and manual on-line scoring or editing capabilities.



Time	SpO2	Snoring	Observed resp events	Hussler level	Comments	Confirms	Confirmed Time
01/06/2006 11:15:37 PM	93%	Soft, intermittent	only at sleep onset	N/A	rapid sleep onset	Confirmed	01/06/2006 11:17 PM
01/06/2006 11:30:37 PM	95%	Yes	mostly hypopneas, some OA	N/A	no supine sleep	Confirmed	01/06/2006 11:37 PM
01/06/2006 11:45:37 PM	95%	Yes, loud supine	OA/Hypopneas	N/A	Now supine	Confirmed	01/06/2006 11:47 PM



## Tools for you, the Scoring Technologist

**Staging And Event Scoring Comparison** - Correlate different staff member results, including epoch-by-epoch review.

**"As Recorded" Review** - Anyone viewing the file can see it just as the recording technician did. Change any settings or open with your own personal preferences.

**Summary Statistics** - See the results as you score. Dynamic on-screen display including sleep architecture, respiratory events, arousals and limb movements.

**View Data In Context** - On-screen trend data and details of the current epoch allow simple relation to the entire study.

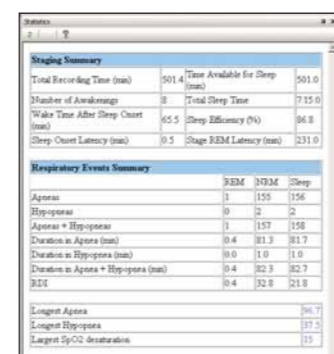
**Konno-Mead Loops and Flow Volume Loops** - Examine your patients' respiration in more detail.

**ECG-HRV Analysis (optional)** - Everything a cardiologist would expect from a typical Holter ECG. Full ECG analysis, arrhythmia detection, ST segment analysis, heart rate variability, editable templates and more. A great tool to investigate the association between ECG statistics and respiratory events.

**Selectable Timebase** - Easily review all data at the most appropriate rate. Display raw data or data trends in multiple panes with different timebases if desired.

**Drag-And-Drop Traces** - Drag off screen to delete, drag in from list to select.

**Fully Synchronized Digital Video/Audio Recording** - With digital pan, tilt and zoom features to record patient activity throughout the night. Quick and easy video editing tools let you keep just the selected sections and discard the rest.



## Tools for you, the Reporting Physician.

**Create reports exactly as you want them, incredibly quickly and easily.**

**Automatic Narrative Interpretations (optional)** - A significant time-saving for interpreting physicians. The **Impressions Editor** applies user-defined rules to automatically generate the desired interpretation of the numbers, e.g. severity of OSA dependent on the AHI or RDI.

**Quick Insertion Of Recommendations** - More time saved for the physician. Simply select one or more user-defined statements from a pre-configured drop-down list.

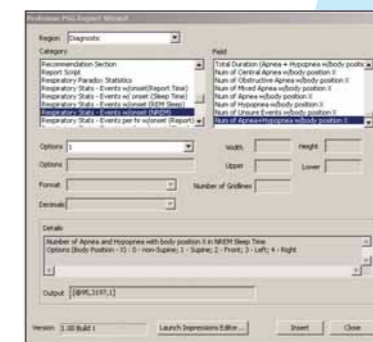
For **neXus** users there is a two-way dialogue between **neXus Service** details and the report in Profusion PSG. Physicians can make interpretations and recommendations in either application with each being automatically updated.

**Report Template Wizard** -

It's never been so easy to have report templates customized to your exact requirements.

The **Report Template Wizard** is an MS Word plug-in that allows searches for the description of any one of literally thousands of possible statistics - to be used any way you wish.

**Split-Night Reports** - Simple combination results. Report the diagnostic and treatment sections of the study together on a page or in a table for comparison.



# My Workspace™

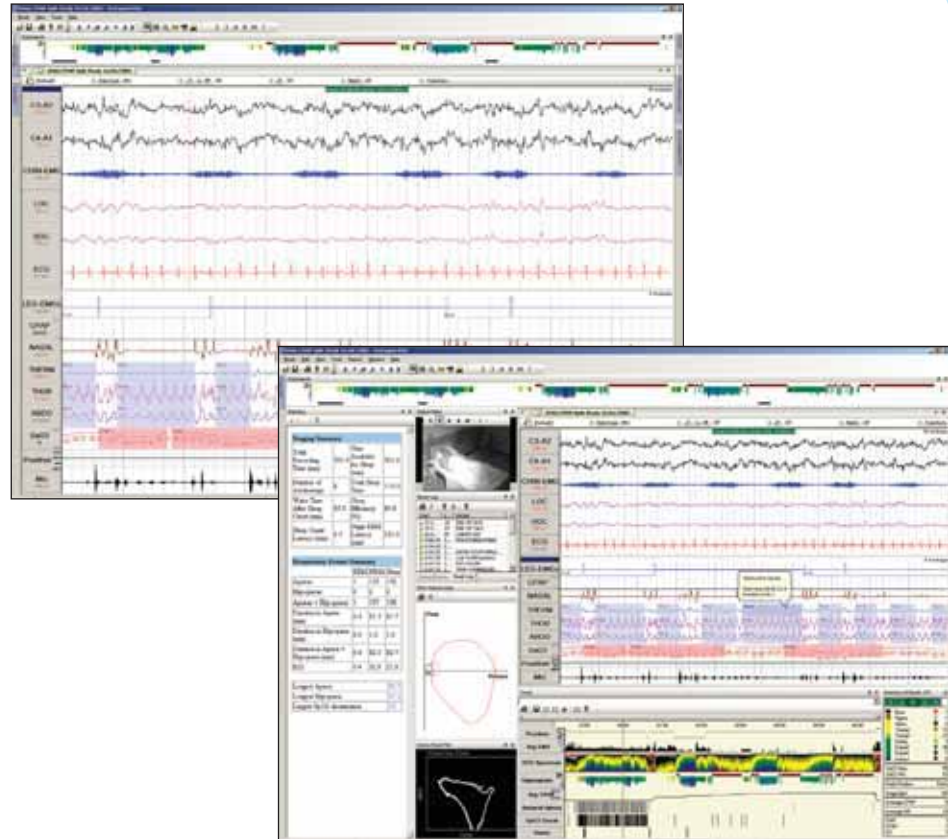
ProFusion PSG 3 introduces Compumedics **My Workspace™** concept - a new operator interface which allows each user to save multiple workspaces each set up exactly the way they want. This can be customized for individuals or the entire facility.

**My Workspace™** allows each individual easier access to all of the windows and data they want. Either maximize the screen layout for optimum viewing of critical physiologic data, or display several additional windows.

ProFusion PSG 3 also delivers a unique “roll-over” feature with immediate access to any number of pre-configured windows. Do you want to have raw data, trends, hypnogram, Konno-Mead Loops, Flow-Volume Loops, digital video or more functions running simultaneously? With **ProFusion PSG 3** you can, and you can quickly switch between views without requiring a single mouse click!

# The Ultimate Lab Management Tool-ProFusion NeXus

Integrate ProFusion PSG 3 with 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.



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 physiologic 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 innovative products, exceptional service and a full range of consumables and accessories brought to you by dedicated people who care.

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