



compumedics  
**profusionSLEEP**  
version 5

World Class Sleep Diagnostic Software



## AASM V2 Compliant - Profusion Sleep meets the latest AASM scoring rules.

Allows expanded reporting for hypopneas including:

- REM without atonia (RWA)
- Hypopneas meeting the traditional Medicare rule of a 4% desaturation as well as that of a 3% desaturation with or without associated arousal
- Hypopneas meeting your traditional lab rule
- New report codes also allow reporting of AASM, Medicare (USA), and/or traditional hypopneas for numeric or chronological bi-level pressure treatment.

## Features -

### Totally Modern User Interface

Profusion Sleep software suite has been updated with a modern and visually appealing user interface. All applications within the suite have a consistent look and feel, making them easier to recognise, learn and operate.

### My Workspaces

Each individual can customize up to four workspaces, which allow the user to maximize the screen layout for optimum viewing of essential data. Easily accessible waveform data, trends, hypnogram, digital video, and other data windows.

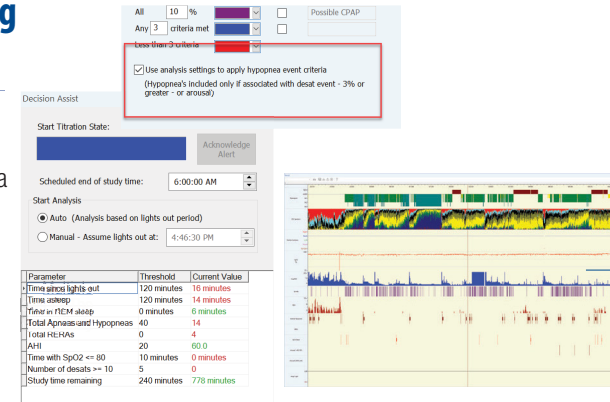
### Drag-and-Drop Traces

Drag traces off screen to delete, drag in from a list to select. Move a trace by dragging and dropping in a new position.

## Tools for Recording

### Decision Assist

Aids deciding when to start CPAP titration in a split night study. Set your criteria for sleep and REM time, respiratory disturbances and oxygen saturation levels based on AASM Hypopnea scoring rules.



### Visual and/or Audio Notifications on Calibrated Channels

Helps ensure critical events are not missed.

### On-Line Trend View

Provides extensive information including any scored events, particularly useful during CPAP or Bi-level treatment.

## Fully Synchronized High-Definition Digital Video/Audio Recording

With support for two High-Definition Video Cameras Helpful when studying patients with parasomnias and seizure disorders. Features digital pan, tilt and zoom to record patient activity throughout the night.

### Enhanced Pageback during recording

#### Integrated Pageback

Full automatic and manual on-line scoring or editing capabilities.

#### Video Review of previously recorded DV

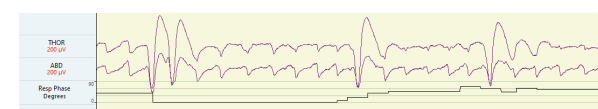
Don't miss what the patient was doing while you attend to another.

#### ECG free trace transformation

Score during acquisition and frustrated with ECG artifact? **ECGfree** is now available during Pageback.

### Respiratory SUM channel is also available in Pageback view.

The Respiratory Sum channel aids in the identification and classification of respiratory events, making it easier to score during acquisition.



### Respiratory Band Phase Analysis

A new respiratory band phase analysis has been added to both PSG Online and Profusion PSG software to provide a new respiratory phase angle channel. Provides additional information, especially for pediatric patients.

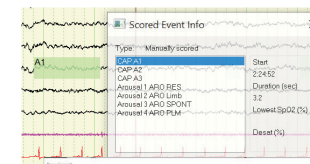
## Tools for Scoring

### “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.

### 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.



### View Data in Context

On-screen trend data and details of the current epoch allow simple relation to the entire study.

### Cyclic Alternating Pattern (CAP) scoring and reporting

### MSLT nap times are user configurable

Added ability to define MSLT nap periods for ease of reporting. No need to set lights on/off. Added ability to associate up to three studies during reporting.

### Added analysis and reporting support for Esophageal Pressure Monitoring (Pes)

### ECG free trace transformation - score or review, even during acquisition

Frustrated with ECG artifact? **ECGfree** is now available anytime you score or review.

### Staging and Event Scoring Comparison

Correlate different staff member results, including epoch-by-epoch review.

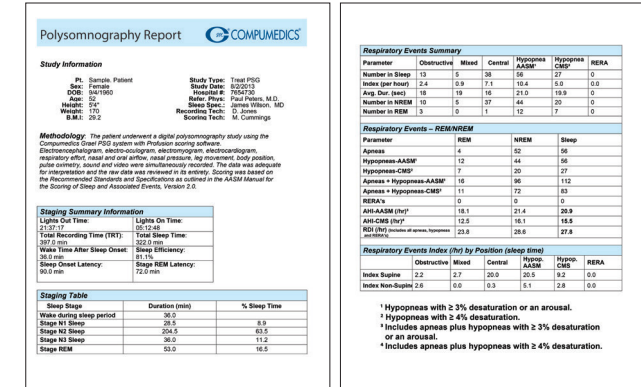
### Summary Statistics

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

## Tools for Interpretation and Final Reports

### New Reporting Features Include:

- Generic scored event count graph
- RDI (Sleep time in Supine body position), RDI (REM Sleep in Supine body position), RDI (NREM Sleep in Supine body position)
- Expanded reporting for Hypopneas. Report both AASM and CMS defined hypopneas in any report
- Report expanded parameters for ASV
- Added analysis and reporting support for Esophageal Pressure Monitoring (Pes)
- Cyclic Alternating Pattern (CAP) scoring and reporting
- Split-night reports
- New Active text facility.



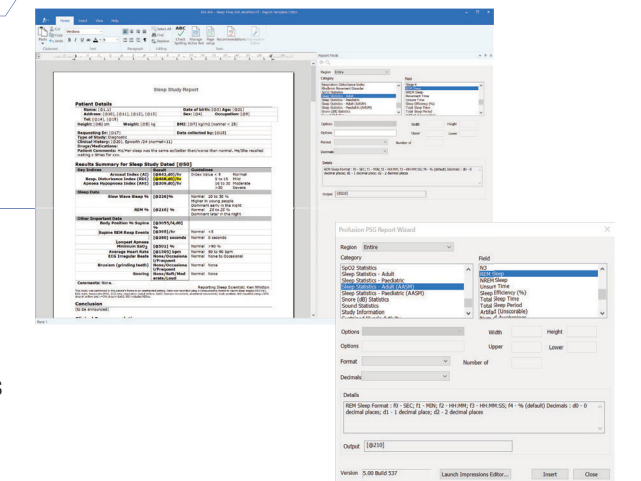
| Treatment Statistics |      |     |     |      |      |      |       |       |       |      |      |      |      |
|----------------------|------|-----|-----|------|------|------|-------|-------|-------|------|------|------|------|
| CPAP                 | CPAP | BAP | BAP | EPAP | EPAP | Flow | Other | Total | REM   | REM  | REM  | #HYP | #CA  |
| Min                  | Max  | Min | Max | Min  | Max  | Min  | Max   | Time  | Time  | Time | Time | Time | Time |
| 0/0/0                | 0    | 5   | 8   | 15   | 0    | 0    | 0     | 32.0  | 61.0  | 61.0 | 26.0 | 0    | 13   |
| 4/7/0                | 0    | 5   | 8   | 15   | 0    | 0    | 0     | 32.0  | 100.0 | 72.0 | 26.0 | 0    | 14   |
| 3/8/1                | 0    | 5   | 8   | 15   | 0    | 0    | 0     | 32.0  | 32.0  | 32.0 | 0.0  | 0    | 2    |
| 3/8/2                | 0    | 3   | 8   | 15   | 2    | 0    | 0     | 1.5   | 1.5   | 1.5  | 0.0  | 0    | 0    |
| 4/13/2               | 0    | 5   | 8   | 15   | 0    | 0    | 0     | 0.5   | 0.5   | 0.5  | 0.0  | 0    | 0    |

### Polysomnography Reports

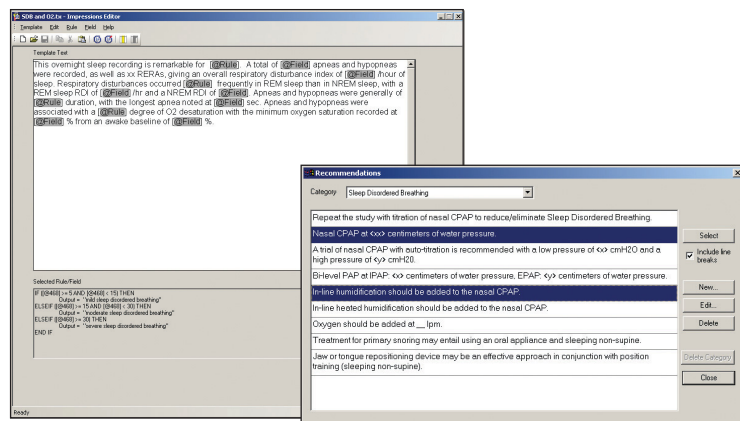
Customize your reports using the many tools available in MS WORD, including logos, drop downs, and tables as well as the new Report Template Editor.

### Report Template Wizard -

It's never been easier to have report templates customized to your exact requirements. The **Report Template Editor** and the **Report Wizard**, (an MS Word plug-in), allows searches for the description of any one of literally thousands of possible statistics - to be used any way you wish.



# Optional Features

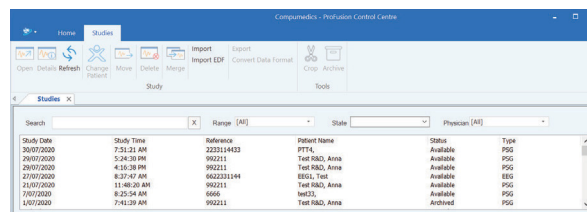


## Automatic Narrative Interpretations

A significant time-saving feature 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.

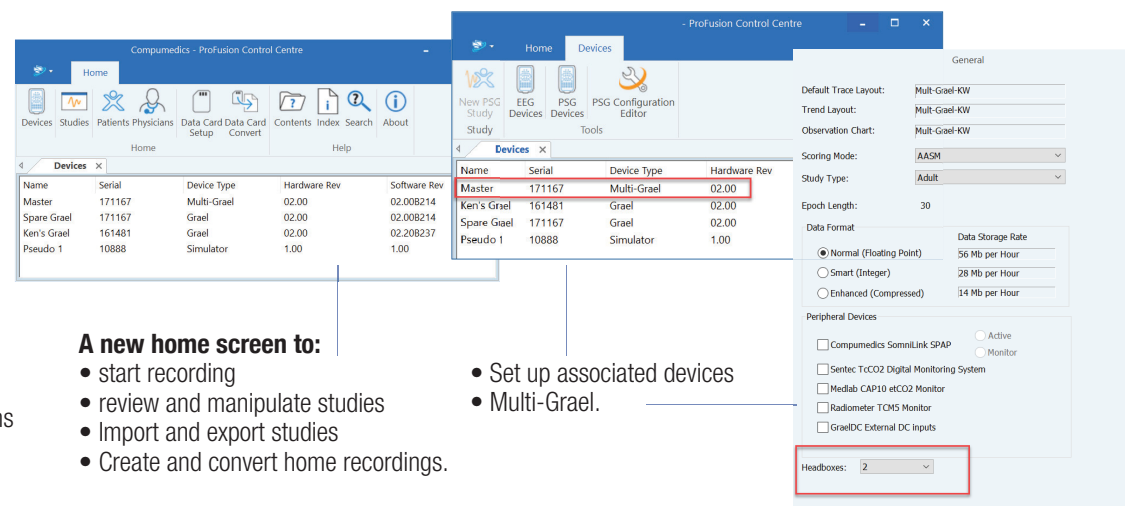
## Quick Insertion Of Recommendations

More time saved for the physician. Simply select one or more user-defined statements from a pre-configured drop-down list. For **neXus 360** users there is a two-way dialogue between **neXus 360 service** details and the report in Profusion Sleep. Physicians can make interpretations and recommendations in either application with each being automatically updated.



## Profusion Control Centre

The new Profusion Control Centre provides a single tool to perform common operations such as starting new studies, setting up data cards and downloading studies.



### A new home screen to:

- start recording
- review and manipulate studies
- Import and export studies
- Create and convert home recordings.
- Set up associated devices
- Multi-Grael.



profusion  
**neXus 360™**

**Introducing Compumedics Profusion neXus 360, the next generation of Profusion neXus.**

Built on the proven Profusion neXus platform with more than 15 years of customer use and thousands of users, Profusion neXus 360 offers the full functionality of Profusion neXus and more, in a **full web-based interface**.



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