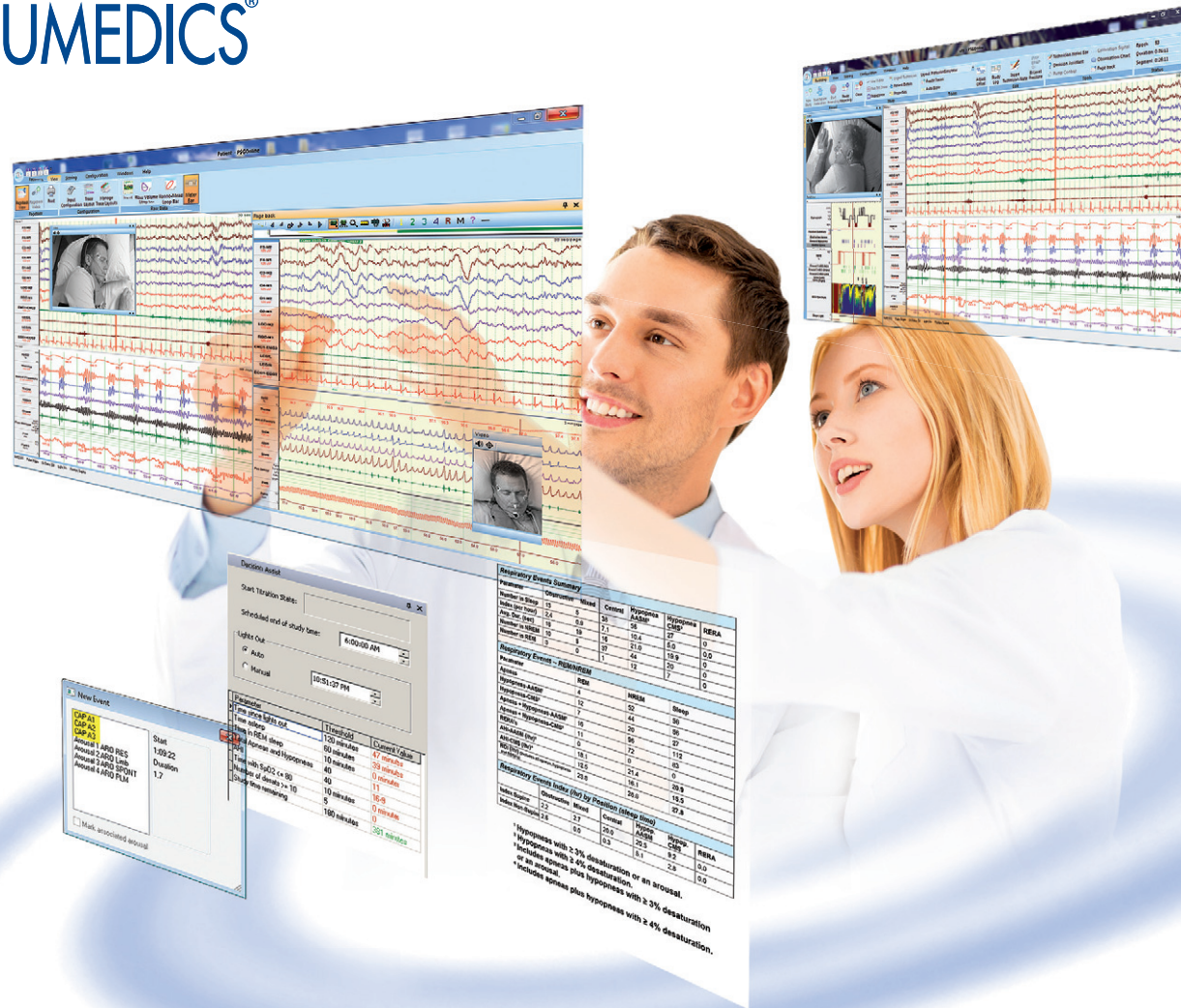




compumedics
profusion **SLEEP**
 VERSION 4.5

World Class Sleep Diagnostic Software

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

Allows expanded reporting for hypopneas including:

- Hypopneas meeting the new AASM rule of a 3% desaturation or an arousal
- Hypopneas meeting the traditional Medicare rule of a 4% desaturation
- 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 Redesigned Ribbon Bar User Interface

The software has been redesigned to use the popular intuitive ribbon bar menu user interface, replacing the traditional menu and toolbar. Related functions are now organized in logical groups - making them easier to find.

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.

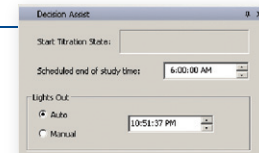
Drag-and-Drop Traces

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

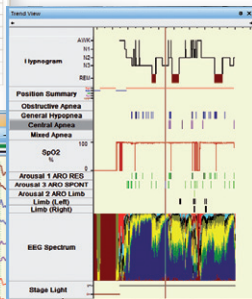
Decision Assist

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.



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.



On-Line Trend View

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

Visual and/or Audio Notifications on Calibrated Channels

Helps ensure critical events are not missed.

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 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. (optional)

Staging and Event Scoring Comparison

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

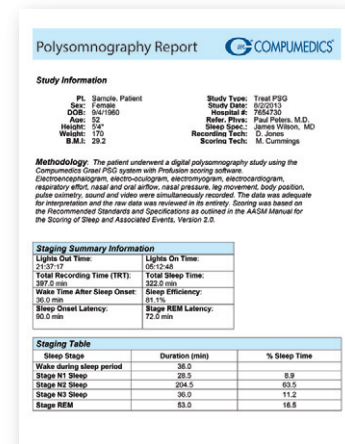
Summary Statistics

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:

- **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**



Respiratory Events Summary									
Parameter	Obstructive	Mixed	Central	Hypopnea AASM*	Hypopnea CMS*	RERA			
Number in Sleep	13	5	38	59	27	0			
Index (per hour)	2.4	0.9	7.1	10.4	5.0	0.0			
Avg Dur. (sec)	18	19	18	21.0	18.9	0			
Number in REM	13	5	37	44	26	0			
Number in REM	3	0	1	12	7	0			

Respiratory Events - REM/NREM									
Parameter	Obstructive	Mixed	Central	Hypopnea AASM*	Hypopnea CMS*	RERA			
Apneas	4	52	58						
Hypopneas-AASM*	12	44	56						
Hypopneas-CMS*	7	20	27						
Apneas + Hypopneas-AASM*	16	96	112						
Apneas + Hypopneas-CMS*	11	72	83						
RERA's	0	0	0						
AHI-AASM (hr)*	18.1	21.4	30.9						
AHI-CMS (hr)*	12.5	16.1	15.5						
RDI (hr) - Index of apneas, hypopneas and RERA's	23.8	28.6	27.8						

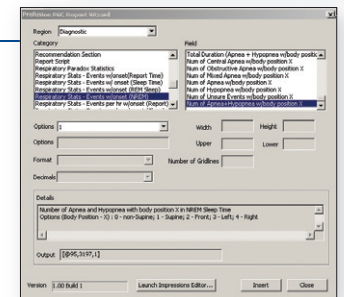
Respiratory Events Index (hr) by Position (sleep time)									
	Obstructive	Mixed	Central	Hypopnea AASM	Hypopnea CMS	RERA			
Index Supine	2.2	2.7	20.0	20.5	9.2	0.0			
Index Non-Supine	2.6	0.0	0.3	8.1	2.8	0.0			

* Hypopneas with ≥ 3% desaturation or an arousal.
* Hypopneas with ≥ 4% desaturation.
* Includes apneas plus hypopneas with ≥ 3% desaturation or an arousal.
* Includes apneas plus hypopneas with ≥ 4% desaturation.

Treatment Statistics																			
CPAP BLVEL	CPAP Min	CPAP Max	CPAP Min	CPAP Max	Pres Res	Other Param.	Total Time (min)	Total Time (min)	REM (min)	REM (min)	#WY	#CA	#DA	#BA	AHI	#RENA	RDV		
0/0/0	0	5	8	16	0	RSD Time = 0.0	60.0	60.0	60.0	0.0	0	13	0	0	12.8	0	12.8		
4/7/0	0	5	8	16	0	RSD Time = 0.0	60.0	100.0	72.0	26.0	0	14	0	0	8.6	0	6.7		
3/8/1	0	5	8	16	0	RSD Time = 0.0	32.0	32.0	32.0	0.0	0	2	0	0	3.8	0	3.8		
3/9/2	0	3	8	16	2	RSD Time = 0.0	1.5	1.5	1.5	0.0	0	0	0	0	0.0	0	0.0		
4/10/2	0	5	8	16	0	RSD Time = 0.0	0.5	0.5	0.5	0.0	0	0	0	0	0.0	0	0.0		

Report Template Wizard -

It's never been easier 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.



Charting Tool

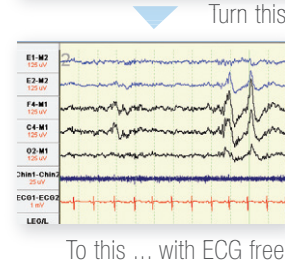
A handy reminder to chart observations. User defined forms that pop-up at pre-defined intervals.

Online Respiratory Rate

Quick on-screen calculation. Provides additional information, especially for pediatric patients.

User Defined Manual Inputs

Create inputs to manually track important information such as body position and snoring level.



To this ... with ECG free

Enhanced Pageback during recording

Integrated Pageback

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

Video Review of previously recorded DV

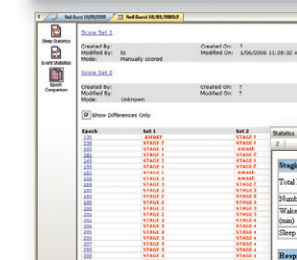
Don't miss what the patient was doing while you attend to another.

ECGfree 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.

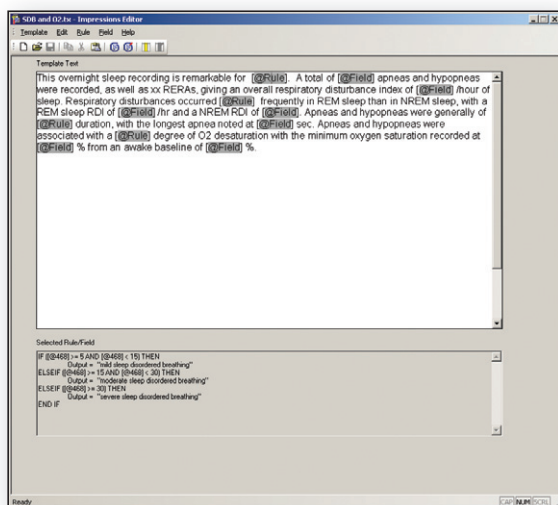
The Respiratory Sum channel aids in the identification and classification of respiratory events, making it easier to score during acquisition.



Staging Summary									
Total Recording Time (min)	501.4	(Time Available for Sleep)	501.9						
Number of Awakenings	8	Total Sleep Time	715.0						
Wake Time After Sleep Onset (min)	65.5	Sleep Efficiency (%)	94.8						
Sleep Onset Latency (min)	0.5	Stage REM Latency (min)	231.0						

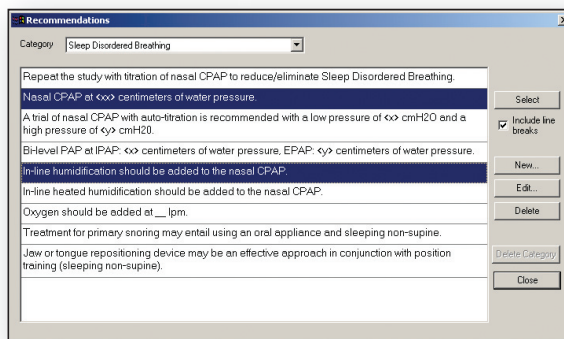
Respiratory Events Summary									
Apneas	1	155	156						
Hypopneas	0	2	2						
Apneas + Hypopneas	1	157	158						
Duration in Apnea (min)	0.4	91.3	30.7						
Duration in Hypopnea (min)	0.0	1.0	1.0						
Duration in Apnea + Hypopnea (min)	0.4	92.3	32.7						
RENA	0.4	32.8	21.8						
Longest Apnea			96.7						
Longest Hypopnea			37.5						
Longest SpO2 Desaturation			13.1						

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
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**.



Compumedics divisions:



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