

# Profusion Sleep updated to V4.5

## AASM 2.5 Compliant

### FEATURE UPDATES

#### Additional Movement Types

Catering for RBD – Additional Movement Event Types

**Movement event types now includes;** Rhythmic Movement Disorder, Hypnagogic Foot Tremor and Excessive Fragmentary Myoclonus, Alternating Leg Muscle Activation (ALMA), Sustained Muscle Activity and Transient Muscle Activity.

#### Post Study Patient Calibration

Profusion Sleep 4 has always supported a Patient Calibration segment prior to recording. Now a similar 'Post Patient Calibration' segment can be recorded at the end of the recording (in compliance with AASM 2.5).

Analysis Settings		
Property	Value	
<b>Bruxism</b>		
Input	Chin 1	
<b>Sustained Muscle Activity</b>		
Input	Chin 2	
<b>Transient Muscle Activity</b>		
Flexor Digitorum Input	Arm/L	
Extensor Digitorum Input	Arm/R	
<b>Rhythmic Movement Disorder</b>		
Burst Input	EMG Back	
<b>Hypnagogic Foot Tremor</b>		
Burst (Left) Input	Foot/L	
Burst (Right) Input	Foot/R	
<b>Excessive Fragmentary Myoclonus</b>		
Left Limb Input	Leg/L	

Options		
Property	Value	
<b>System setting</b>		
Auto save	2 min	
General		
Automatic paging in scoring	No	
Automatic arousal association	Yes	
Report		
Automatic PLM scoring	Yes	
Trace Window		
Hypopnea classificaton	Yes	
Scoring		
Automatic Rhythmic Movement Disorder scoring	Yes	
Timebase O		
Automatic Alternating Leg Muscle Activation scoring	Yes	
Automatic Hypnagogic Foot Tremor scoring	Yes	
User settings		
Automatic Excessive Fragmentary Myoclonus Scoring	Yes	
Input Assignmen		
Arousal overlapping	Yes	
Plug-ins		
Default respiratory length	10	
Default arousal length	3	
Default limb movement length	1	
Default snore length	1	

The screenshot shows the software interface with a red circle highlighting the 'Post Patient Calibration' segment in the timeline. The menu bar includes 'Review', 'View', 'Scoring', and 'Reports'. The toolbar contains various icons for study management and analysis.

#### AASM 2.5 Patient Calibration recommendations pre-recording

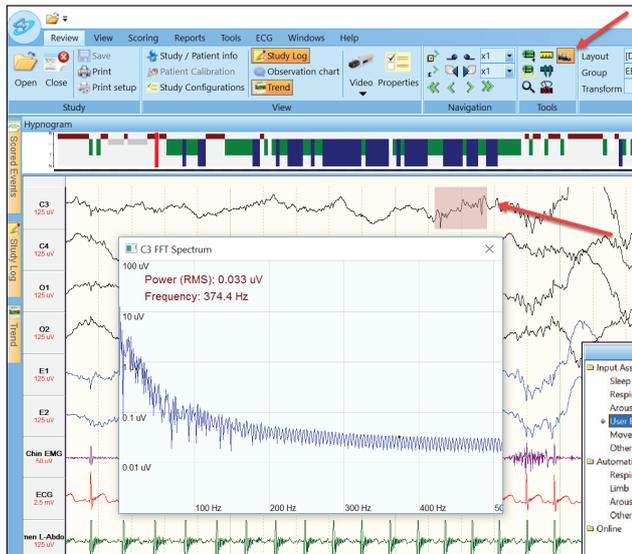
Patient Calibrations
<input type="checkbox"/> Record EEG, EOG & EMG Impedance (30 sec)
<input type="checkbox"/> Open eyes, stare straight ahead (30 sec)
<input type="checkbox"/> Close your eyes, stay still (30 sec)
<input type="checkbox"/> Look up, down without moving head (five times)
<input type="checkbox"/> Look right, left without moving head (five times)
<input type="checkbox"/> Blink slowly, distinctly (five times)
<input type="checkbox"/> Grit your teeth, chew and swallow (5 sec)
<input type="checkbox"/> Make snore sound or hum (5 sec)
<input type="checkbox"/> Breathe normally - Check airflow & effort channels are synchronized
<input type="checkbox"/> Hold your breath (approx 10 secs)
<input type="checkbox"/> Breathe normally
<input type="checkbox"/> Take a breathe in and out - check polarity - mark record IN and OUT
<input type="checkbox"/> Breathe through nose only (10 sec)
<input type="checkbox"/> Breathe through mouth only (10 sec)
<input type="checkbox"/> Take deep breathe and exhale slowly for 10 sec.
<input type="checkbox"/> Flex the Left foot/raise toes on Left foot (five times)
<input type="checkbox"/> Flex the Right foot/raise toes on Right foot (five times)
<input type="checkbox"/> Flex/extend the fingers on Left hand.
<input type="checkbox"/> Flex/extend the fingers on Right hand.
<input type="checkbox"/> Adjust ECG signal to provide "R" wave deflection "Upwards"
<input type="checkbox"/> Check Oximeter
<input type="checkbox"/> Check Position sensor

#### AASM 2.5 Patient Calibration recommendations post-recording

Patient Calibrations
<input type="checkbox"/> Record EEG, EOG & EMG Impedance - End of Recording (30 sec)
<input type="checkbox"/> Open eyes, stare straight ahead (30 sec)
<input type="checkbox"/> Close your eyes, stay still (30 sec)
<input type="checkbox"/> Look up, down without moving head (five times)
<input type="checkbox"/> Look right, left without moving head (five times)
<input type="checkbox"/> Blink slowly, distinctly (five times)
<input type="checkbox"/> Grit your teeth, chew and swallow (5 sec)
<input type="checkbox"/> Make snore sound or hum (5 sec)
<input type="checkbox"/> Breathe normally - Check airflow & effort channels are synchronized
<input type="checkbox"/> Hold your breath (approx 10 secs)
<input type="checkbox"/> Breathe normally
<input type="checkbox"/> Take a breathe in and out - check polarity - mark record IN and OUT
<input type="checkbox"/> Breathe through nose only (10 sec)
<input type="checkbox"/> Breathe through mouth only (10 sec)
<input type="checkbox"/> Take deep breathe and exhale slowly for 10 sec.
<input type="checkbox"/> Flex the Left foot/raise toes on Left foot (five times)
<input type="checkbox"/> Flex the Right foot/raise toes on Right foot (five times)
<input type="checkbox"/> Flex/extend the fingers on Left hand.
<input type="checkbox"/> Flex/extend the fingers on Right hand.
<input type="checkbox"/> Adjust ECG signal to provide "R" wave deflection "Upwards"
<input type="checkbox"/> Check Oximeter
<input type="checkbox"/> Check Position sensor

## Now with FFT Window Option

Displays the power spectrum for a specified region of a trace.



## Support for Custom User Definable Event Types

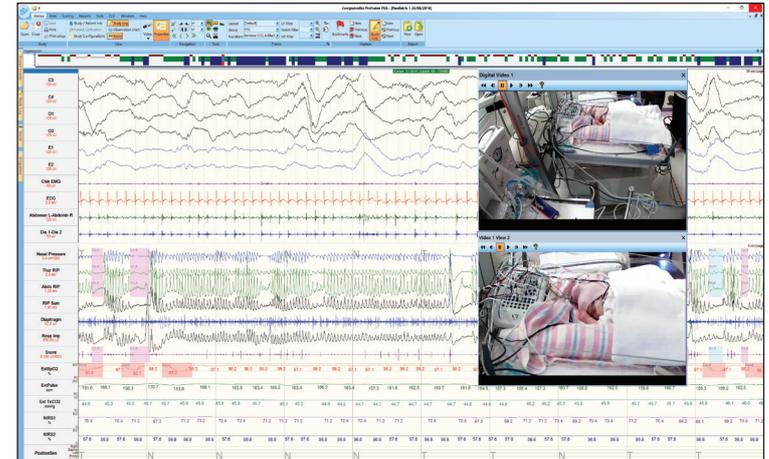
Support for up to 15 user definable event types.

Analysis Settings		
Property		Value
Input Assignments		
Sleep	User Defined Event 1	
Respiratory	Accurate	None
Input	User Defined Event 2	None
Input	User Defined Event 3	None
Other	User Defined Event 4	None
Automatic Analysis		
Respiratory	User Defined Event 5	None
Input	User Defined Event 6	None
Input	User Defined Event 7	None
User Defined Event 8	User Defined Event 8	None
Input	User Defined Event 9	None
User Defined Event 10	User Defined Event 10	None
Input	User Defined Event 11	None
User Defined Event 12	User Defined Event 12	None
Input	User Defined Event 13	None
User Defined Event 14	User Defined Event 14	None
Input	User Defined Event 15	None
User Defined Event 15	User Defined Event 15	None
Input		None

## Dual Digital Video Windows

Profusion Sleep 4.5 has the ability to record video from two cameras.

There are several reasons why this might be useful, for example the physician may want high definition footage of the patient's face in addition to low definition footage of the patient's body during the study. Or the clinic may require a low resolution video of the entire room.



## Other Profusion Sleep 4.5 Updates Include:

**New Home Sleep Study modes** have been added for home sleep studies

**Event Button Alert** can now be activated by the event button

**Report Wizard** now supports **64 bit MS Word**

To find out more about this product,  
contact your local Compumedics representative.

