

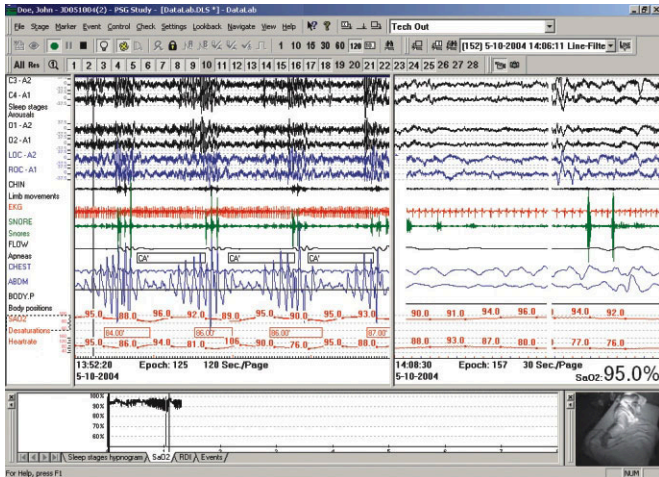
Medicare



SMART SLEEP SYSTEMS

REMBRANDT®





Acquisition with DataLab

## ■ Use the NiteAssistant

NiteAssistant™ provides accuracy and quality control while dramatically increasing the efficiency of split-night studies. NiteAssistant also lets you control how computer-assisted you would like the study to be. Technicians can still edit events and turn the detectors on and off.

- Intelligent real-time control of the channels being acquired
- Assistance in determining when to begin CPAP/Bi-Level intervention
- Keeps track of your pre-established criteria and notifies you when CPAP/Bi-Level pressures need adjustment
- Generates several reports including Data Summary and Pressure Table

## ■ Improve Quality Management

In addition to computer-assisted analysis for quality management, Rembrandt offers:

- Easy comparison of sleep stage scores between two scorers
- Score comparison of clinical events such as apnea
- Simplify blind scoring, single blind or double blind
- Simple statistics like percentage agreement or detailed statistics like Kappa or Z scores
- Quality check the analysis settings

## ■ Pediatric Sleep Studies

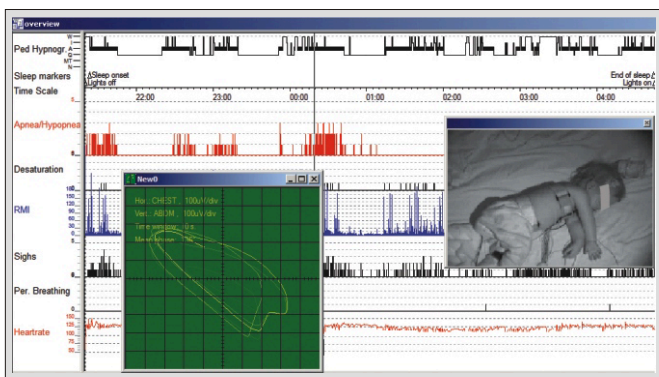
Rembrandt offers pediatric sleep study solutions. Choose from a wide range of Medcare amplifiers to use in combination with pediatric sensors and a detailed behavior analysis using fully synchronized digital video.

- Infant sleep staging, sigh analysis, sensitive and lightweight XactTrace respiratory inductance plethysmography analysis, phase analysis, periodic breathing, pH, CO2 analysis by either end tidal CO2 or transcutaneous CO2 and blood pressure analysis
- Clearly visualize the phase relationship between thorax and abdomen effort with a dynamic phase plot and Medcare's Respiratory Mechanics Instability (RMI) parameter
- Ensure that the effects of development can be easily taken into account with adult and infant staging in one system

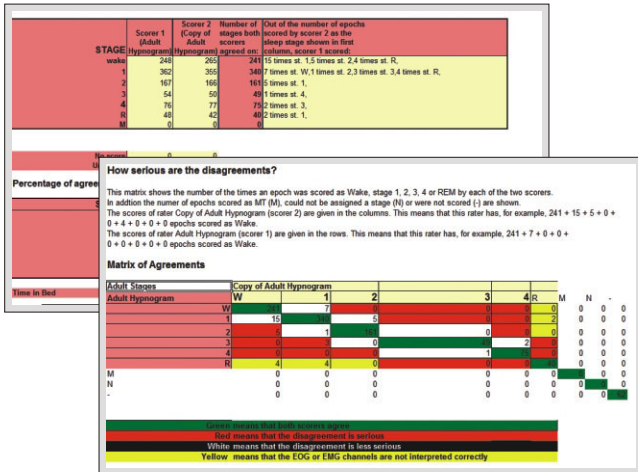
## ■ Flexible Reporting

Rembrandt features extensive and flexible reporting. Get the results you need with completely customizable reports. Events and indexes can be reported in combination with sleep stages and body position.

- Add graphical representations of the analysis results or traces from the night summary of the recording
- Customize your reports by adding the name and logo of your institute
- Easily export analysis results to Excel for further processing



Advanced Pediatric Features



Quality Management Tools



Embla N7000 with Communication Unit and Patient Unit



Monet SLP+

## Available in Different Configurations

Rembrandt is available in a Master or Artist configuration to let you fit your software package to your exact needs.

**Artist Series** - Tailored to organizations that want to optimize efficiency in routine tasks. The full functionality of a modern sleep clinic is available to you with the most straightforward operation that requires very little training.

**Master Series** - Provides the scientifically oriented professional with the ideal working tool to study and analyze even the most complex problems with ease.

Some of Rembrandt's modules and analysis features are optional additions to the standard system.

## Medcare Recording Systems

Medcare Recording Systems offer a high degree of flexibility and signal quality to meet the highest demands of clinical work and research and are available in a variety of configurations. Signal quality is ensured with state-of-the-art digital acquisition, filtering and storage technology, including anti-aliasing filters and integrated 50Hz and 60Hz notch filters.

**Embla N7000** - Ergonomically designed full polysomnography system, offering extended EEG capabilities, up to 60 channels

**Embla S7000** - Designed for the dedicated high-performance sleep center, up to 40 channels

**Monet** - Ambulatory system with up to 27 channels

## Complete Sensor Technology

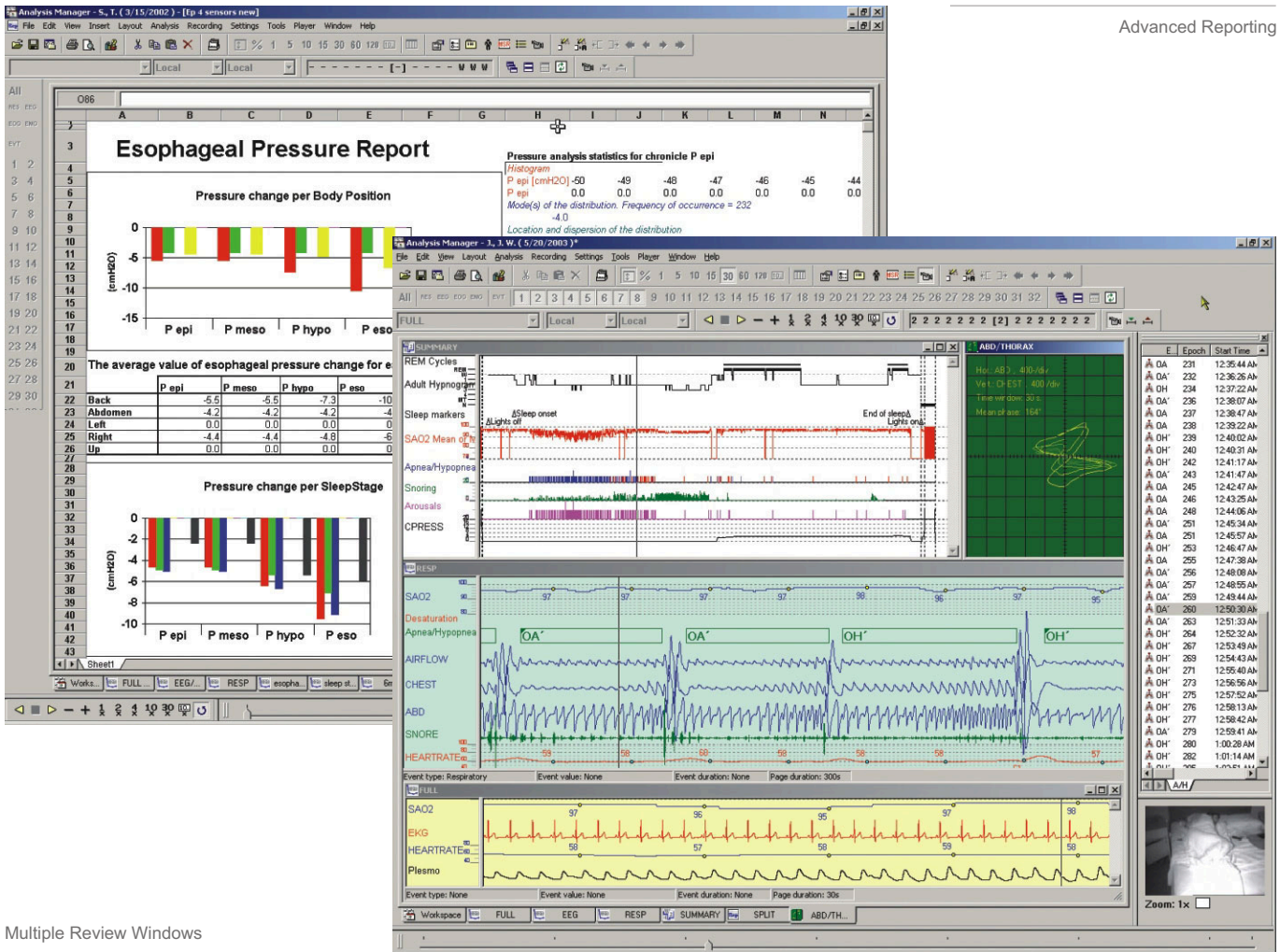
Medcare offers a complete line of sensors and study accessories including nasal pressure, thermistry, up to four site esophageal pressure; body position and snoring to help you perform a wide variety of studies. Medcare also develops new cutting-edge sensor technology that increases accuracy and ease in the study environment. Medcare's XactTrace™ belts utilize inductance plethysmography to deliver unmatched effort trace accuracy.

## Business Management Software

Medcare's Enterprise™ System is an integrated business management solution for clinical sleep environments. You can schedule studies for a single facility or multiple networked facilities, provide centralized management for your reports and documents, track study statistics, produce the reports you need for your sleep center quality assurance and perform extensive queries on the subject population that resides within the Enterprise database.

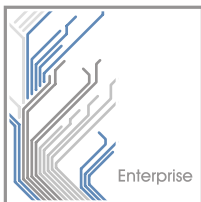
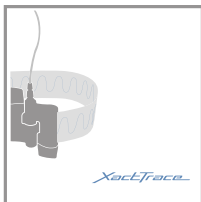
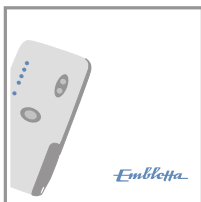
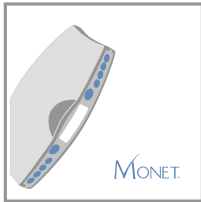
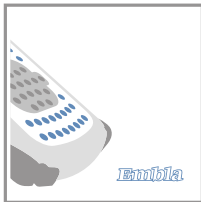
## Have the Support You Need

Medcare supports you every step of the way. Trust in Medcare's dedicated support team and multilevel Protection Plus program including a 1 year warranty with up-time guarantee. System installation and training of your staff is done in an efficient way, so that your sleep center is up and running with minimal disruption. Staff development and other education resources are also available from Medcare.



Multiple Review Windows

- |  |   |   |   |
|--|---|---|---|
| <p><b>Acquisition Modules</b></p> <ul style="list-style-type: none"> <li>Embla N/S7000</li> <li>Monet</li> <li>Audio</li> <li>Video</li> </ul> <p><b>Report Modules</b></p> <ul style="list-style-type: none"> <li>Polysomnography</li> <li>CPAP</li> <li>Sleep Stage Summary</li> <li>Respiratory Events</li> <li>Arousal Events</li> <li>Cardiovascular Events</li> <li>HRV</li> <li>Pulse Transit Time Events</li> <li>PLM</li> <li>Split Night</li> <li>MSLT</li> <li>Scoring Comparison</li> <li>Pediatric</li> <li>Bruxism</li> <li>Esophageal Pressure</li> <li>Gastro-Esophageal Reflux</li> <li>Customized Reports</li> <li>Word Reporting</li> </ul> | <p><b>Online / View Modules</b></p> <ul style="list-style-type: none"> <li>Virtual Look-Back Review</li> <li>Bio Calibration</li> <li>Real-Time Hypnogram</li> <li>Real-Time Analysis</li> <li>Impedance Check</li> <li>Signal Trends</li> <li>Event Trends</li> <li>Signal Windows</li> <li>Overview Windows</li> <li>Spectral Windows</li> <li>Report Windows</li> <li>Phase Plots</li> <li>Clickable Event List</li> </ul> <p><b>Analysis Modules</b></p> <ul style="list-style-type: none"> <li>Arousal Analysis</li> <li>Arousals</li> <li>Associations</li> <li>Cardiovascular Analysis</li> <li>Heart Rate</li> <li>HRV</li> <li>R-R Intervals</li> <li>Tachy/Bradycardia</li> <li>Pulse Transit Time</li> </ul> | <ul style="list-style-type: none"> <li>Esophageal Pressure Analysis</li> <li>Respiratory Analysis</li> <li>Apnea/Hypopnea</li> <li>Desaturation</li> <li>Snore</li> <li>Flattening</li> <li>Respiratory Mechanics Instability</li> <li>Associations</li> <li>Sleep Stage Scoring</li> <li>Sleep Staging</li> <li>Sleep Spindles</li> <li>Eye Movements</li> <li>PLM Analysis</li> <li>LM</li> <li>PLM</li> <li>Associations</li> <li>Body Position Analysis</li> <li>Bruxism Analysis</li> <li>Custom Event Scoring</li> </ul> <p><b>Advanced Analysis Modules</b></p> <ul style="list-style-type: none"> <li>Infant Sleep Stage Scoring</li> <li>End Tidal CO2</li> <li>Transcutaneous CO2</li> <li>Sigh Detector</li> </ul> | <ul style="list-style-type: none"> <li>Periodic Breathing</li> <li>pH Analysis</li> <li>Phase Relation</li> </ul> <p><b>Spectral Modules</b></p> <ul style="list-style-type: none"> <li>FFT</li> <li>Power Spectrum per epoch</li> <li>Spectral Color Power Plot</li> <li>Spectral Bands Overview</li> <li>Spectral Band Ratio Overview</li> </ul> <p><b>Import/Export Modules</b></p> <ul style="list-style-type: none"> <li>European Data Format (EDF)</li> <li>Event Data Export</li> <li>Sleep Stages Export</li> <li>Spectral Power Bands Export</li> <li>Spectral Bins Export</li> </ul> <p><b>Data Management Modules</b></p> <ul style="list-style-type: none"> <li>Data Archiving</li> <li>Store Analysis Results</li> <li>Live Interface to Enterprise Data Manager</li> <li>Rembrandt Manager</li> </ul> |
|--|---|---|---|



## SMART SLEEP SYSTEMS

- Easy start of various recording types by choosing predefined protocols
- Fully integrated digital video
- Data Look-Back during recording, definable time base and epoch length
- Score the recording on the fly, assisted or manually
- Score earlier part of the recording while still recording new data
- Easy tools for reviewing the recording
- Use multiple screens with different time base for optimal reviewing
- User-definable computer-assisted analysis modules
- Fast and flexible reporting of the results
- Save your standard workspace views for future use
- Easy data archiving with integrated archiving functions
- Full range of pediatric sleep analysis functions

Rembrandt systems are manufactured by Medcare Flaga, Reykjavik, Iceland. The manufacturer works in accordance with ISO 9001 and ISO 13485 quality system and has the authority to mark the products with the CE mark (Notified Body Number 0413) according to the European Medical Devices Directive (MDD 93/42/EEC) Annex II.

For further information on the Rembrandt systems declaration of conformity document contact [support@medcare.com](mailto:support@medcare.com)

Rembrandt and Embla are registered trademarks of Medcare Flaga. Analysis Manager, Rembrandt Manager, DataLab, DataManager, NiteAssistant, DaVinci, XactTrace and Monet are trademarks of Medcare Flaga. Word and Windows are registered trademarks of Microsoft Corporation.

Medcare Flaga Sidumuli 24, 108 Reykjavik, Iceland Tel: +354 510 2000 Fax: +354 510 2010 • Medcare GmbH Argelsrieder Feld 11, 82234 Wessling, Germany Tel: +49 (0) 8153-90666-30 Fax: +49 (0) 8153-90666-31 • Medcare Flaga Kon. Wilhelminallein 13, 1062 HH Amsterdam, The Netherlands Tel: +31 20 346 0130 Fax: +31 20 346 0121 • Medcare Systems, Inc 55 Pineview - Suite 100, Buffalo, NY 14228 U.S.A. Tel: +1 (716) 691 0718 Fax: +1 (716) 691 1004

For further information, see [www.medcare.com](http://www.medcare.com) or contact [sales@medcare.com](mailto:sales@medcare.com)