Quest
POLYSOMNOGRAPH



Sleep Study System
16, 24 and 32 Channel

- Diagnose sleep apnea breathing disorder
- Detailed heart rate variability analysis
- Record periodic limb movement disorder for restless legs syndrome
- Identify Narcolepsy and sudden attacks of sleep
- Rapid Eye Movement sleep behaviour track
- Detect unusual behaviours during sleep
- Unexplained chronic insomnia screening

CE

Polysomnography (PSG) is standard test for assessing sleep disorders. PSG recorders are special devices that record electrophysiological data (EEG, EOG, EMG, ECG, Airflow, Respiratory Effort, Pulse, SpO_2, Snoring, Limb Movement and Body Position etc.) and analyze them to identify the type of sleep disorder.

Quest 201 Ambulatory

- 16 Channel Acquisition
- Compact, light weight and portable worn entirely on the patient
- Easy to data transfer through micro SD card
- Inbuilt body position sensor
- Instant discrete report available
- Upto 36 hours of continuous recording of sleep study
- Realtime unlimited continuous recording with PC through USB
- Audio/Visual alarm for SpO_2 and power on/off
- Mobility of patient maintaining their normal routine
- Realtime CPAP titration facility*





Quest 24/32 Fixed System

- Upto 24/32 channels of Acquisition
- Light Weight and Compact amplifier with High quality of Electrodes
- Unlimited continuous recording
- Nonin SpO2 supported **
- Facility to mark pages for printing in review
- Inbuilt 24 channel dedicated EEG with brain mapping and advance CSA/DSA**
- Synchronized photic flash for EEG**
- CPAP and BiPAP Interfacing for titration
- Ethernet enabled (Remote Monitoring) over the LAN
- Make Autorun CD/DVD which can be played on any system with the software setup
- Synchronized full HD video with IR for PSG recording*

** Optional*
*** Available in 32 Channel PSG*

Titration facility with Sleep Lab Software

A CPAP titration study is used to calibrate continuous positive airway pressure (CPAP) therapy. It is a common treatment used to manage sleep-related breathing disorders including obstructive sleep apnea, central sleep apnea.

- Titration control devices
- 5 level heated humidifier for comfort breathing
- Smart solutions for home Sleep Apnea Testing (HSAT)
- Prescription and detailed settings reports



Asta Series CPAP, BiPAP

The flexible **Sleep Lab Software** is an essential tool that makes workflow more efficient. PSG records can be interpreted quickly and user-friendly interface provides easy access to the software function.

- Event marking with comments
- Customized unlimited number of montages
- Reformatting of filters (Hf, Lf) and sensitivity in Acquisition and Review
- Selectable epoch for careful data observation
- Archiving on any media (Zip, Rar)
- Bifurcation of OSA, CSA, MSA, HYP in REM and NREM
- AHI facility for REM and NREM stage
- Automatic marking of K-Complexes, Sleep Spindles, REM
- Detailed reporting of Oximeter, Heart rates, Snoring and CPAP titration etc.
- Sleep Stage Analysis with Spike and Seizure Detection
- Shows CPAP Pressure delivered to patient during analysis



Rs485 based software controlled integrated PTZ camera for high quality video recording (optional)

Montage Setting

Cardiac event (tachycardia, bradycardia)

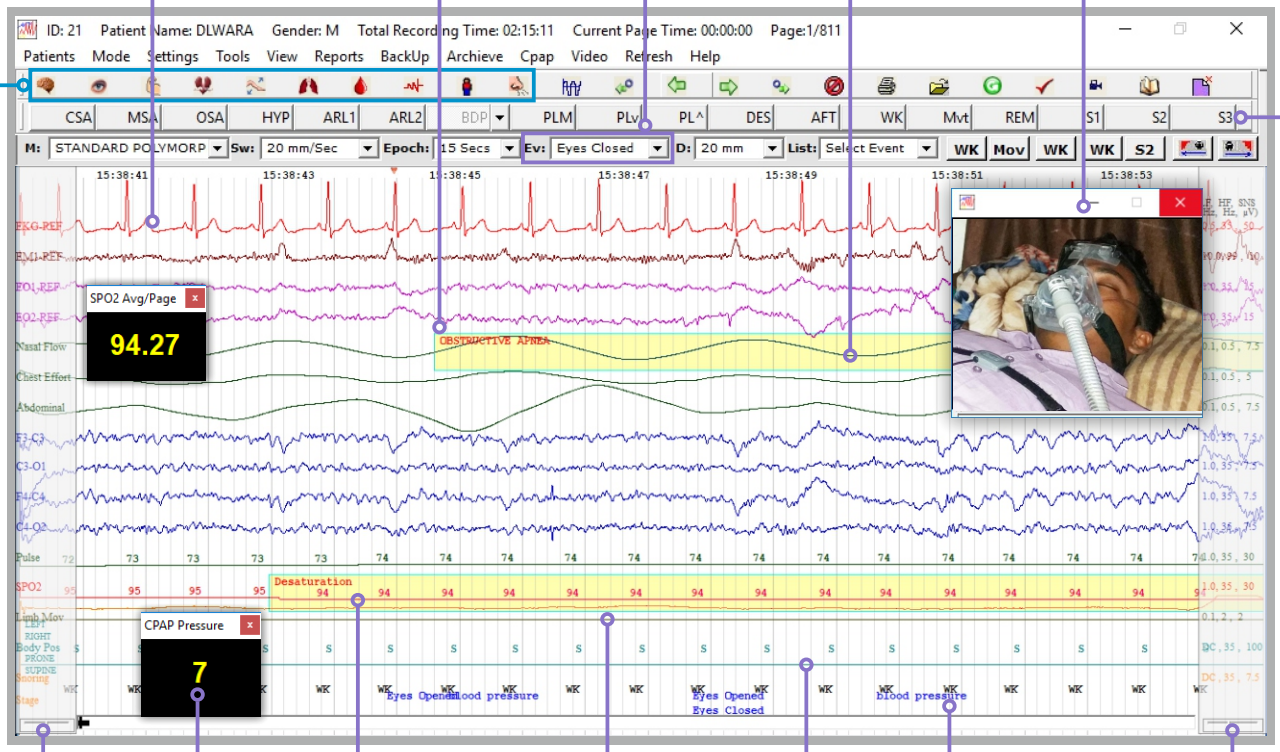
Native traces with OSA arranged automatically

User definable event marking

Respiratory event (apnea and hypopnea)

Video recording of examination

Manual Event marking



Customized Channels

CPAP Pressure (cmH_2O)

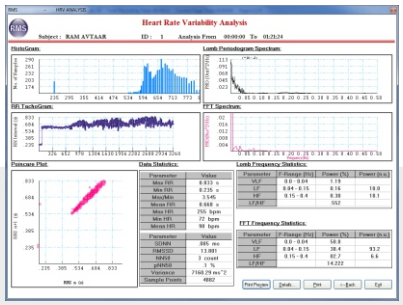
SpO_2 Desaturation

Limb Movement

Snoring

Event marked

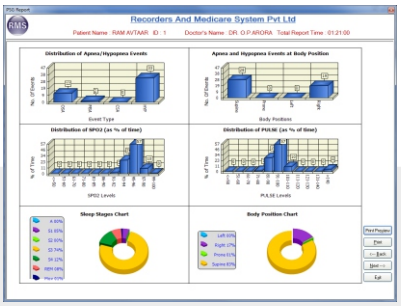
Individual channel properties setting



HRV Analysis



Histogram Analysis



Graphical Analysis

Quest - Technical Specification

A/D Conversion	16 bit ADC
Sampling Rate	1024 Hz
Sensitivity	1 to 1500 µV/mm & user definable.
Low pass filter	0.1, 0.3, 0.5, 1, 3, 5, 7 Hz & user definable.
High pass filter	0.1, 0.3, 0.5, 2, 10, 15, 35, 70, 99 Hz and user definable
Notch Filter	50/60 Hz
Input Impedance	> 10 M Ohms
CMRR	> 100 db
Noise level	< 0.3 µV RMS

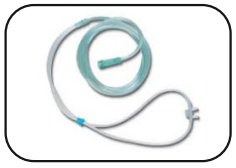
Minimum Computer Configuration

OS: Windows 10 Professional 32/64bit or higher, Processor:i3 or higher,RAM:4GB or higher,500 GB hard disk or higher, CD/DVD Optical Drive, Screen Resolution 1024x768 or higher

Remote Service Program

Online technical support is available from RMS Head office.Customer has to provide internet connection.

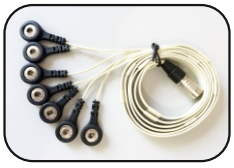
	Quest 201 Ambulatory	Quest 24 Fixed	Quest 32 Fixed
EEG channels	3+1	8	19
Polygraphic channels	0	3	3 (additional)
SLEEP STAGING			
EOG channels	2	2	2
EMG channels	1	2	2
RESPIRATORY MONITORING			
Channels for:			
Pulse	1	1	1
Pressure airflow sensor (cannula)	1	1	1
Thorax respiratory effort sensor	1	1	1
Abdominal respiratory effort sensor	1	1	1
Snoring sensor	1	1	1
Body position sensor	1	1	1
ECG channel	1	1	1
SpO_2 channel	1	1	1 (Nonin)
Limb movement	1	1	1



Nasal Cannula



EEG Cable



ECG/EMG/EOG Cable



Effort Respiration Transducer



Limb Movement Transducer

Since R&D is a continuous process, to make changes in product features, specifications, aesthetics and/or to discontinue the same at any time without notice or obligation

Certified ISO 9001:2015, EN ISO 13485:2016 company CE

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