

SPECIFICATIONS- Polysomnography Diagnostic Study System

Required Specifications

- Comprehensive Polysomnogram, PAP titration & MSLT (multiple sleep latency Test) capability
- Complete portability
- Ability to perform assessment for hypoventilation (built-in end tidal CO₂/TCM)
- Ability to perform a complete seizure montage (as needed)
- Adaptability/Compatibility with all available PAP brands in the market
- 24/7 technical support
- FDA approved
- CE mark (MDD)
- PC's in control room, not at patient bedside
- Built-in etCO₂ monitoring
- Built in SpO₂ monitoring
- A minimum of 8 DC channels
- Rapid sampling rate – at least 500 Hz
- Rapid save rate – at least 500 Hz, study completely and automatically downloaded to server within 15-20 minutes after technologist closes the study
- High pass Hz 120
- CMRR dB ≥ 105 @ 60 Hz
- Digital video compression
- Ability to re-reference between 3-lead chin EMG leads
- Ability to re-reference EEG leads during acquisition
- Display EEG impedance (view impedance of the M2 continuously, in real time and on the channel label during scoring)
- Ability to easily create additional EEG montages
- Adjustable ECG filter
- Ability to differentiate types of hypopnea
- Seamless communication with all in-lab PAP devices, particularly those by Resironics® and ResMed®
- Ability to produce airflow signal generated by the PAP device
- Quiet – noise level < 1.5 p-p
- Software on the TRM list
- HL7 interface for reports
- Ability to tie directly into VA's CPRS and Vista Imaging
- Ability to automatically place a report in the VA's Vista System
- Ability to review reports in Consult tab
- Ability to scan questionnaires directly into the PSG files on the server
- Ability to rapidly score, save and open studies

- Ability to log in remotely to view, score and interpret studies
- Ability to accept digital signatures
- Ability to score from central server (Citrix presentation server, “expandable”)
- Ability to auto-populate the sleep schedule when a patient appointment is made
- Quick and easy access to studies, including videos and questionnaires
- Report format Word document, HTML, PDF
- ICD-10 codes incorporated into the software
- Reliability – low rate of amplifier or head-box failures (approaching zero failures)
- Seamless conversion of portable PSG equipment into the permanent lab