
















| Company | BRAEBON Medical Corp | Cadwell Laboratories Inc | CleveMed | Compumedics | Embla Systems Inc |
|---|--|--|--|---|---|
| Product Name |  MediByte |  Easy Ambulatory PSG |  SleepScout |  Somté |  Embletta Gold |
| Website | www.braebon.com | www.cadwell.com | www.clevemed.com | www.compumedics.com | www.embla.com |
| Cost/Warranty | From \$4,495/1 Year | Cost varies based on channel configuration/1 Year | \$5,990/1 Year | \$5,995/1 Year | \$3,500/2 Year |
| Cost of Consumables per Study | \$7 | Varies. Contact Cadwell to discuss configuration. | <\$4 per study | >\$12 per study | \$5-\$7 cost per use |
| Type | Type III, IV | Types I to IV | Type III | Types III, IV | Type III |
| Total Number of Channels and Channel Description | 12 Channels Oximetry, Heart Rate, Pressure Flow, Snore, Thermal Flow, RIP Chest Effort, RIP Ab Effort, SUM, Body Position, Audio, Volume, ECG, EMG, Event Marker, CPAP Flow, CPAP Pressure | 1 to 32 Channels EEG, EOG, EMG, ECG, Thermal Airflow, Snoring Microphone, Nasal Pressure Airflow, Nasal Pressure Snoring, Oral Pressure Airflow, Oral Pressure Snoring, Oral/Nasal Airflow, Oral/Nasal Snoring, RIP (Chest), RIP (Abdomen), Body Position Sensor, SpO ₂ , Oximeter, Pulse Rate, Leg Accelerometers, Arm Accelerometers, Single Channel Amplifiers | 9 Channels Pulse Oximetry, Airflow (pressure based), Snore (derived from airflow), Thoracic Effort, Abdominal Effort, Body Position, Auxiliary DC (thermistor, blood pressure, etc), ECG, EMG | 13 Channels 2 EXG (EOG, EEG, EMG, ECG), Pressure, Airflow, Snore, Thoracic Effort, Abdominal Effort, Limb Movement, Body Position, SpO ₂ , Pulse Rate, Pulse Waveform, Oximeter Signal Quality | 9 Input-14 Channel includes all inputs and derived channels |
| Product Dimensions | 3" x 2.5" x 1" (63 x 76 x 25 mm) | 7.5" x 4.5" x 1.5" (recorder/battery) | 4.6" x 2.7" x 1.0" (11.7 cm x 6.9 cm x 2.5 cm) | Main unit: 4.4" x 2.5" x 1" Patient box: 2.1" x 3.3" x .98" | 0.9" H x 2.8" W x 5.5" L |
| Weight (including batteries) | 2.82 oz | 1.2 lbs | 6.7 oz (190 g) | 8.25 oz (234 g) | 7.8 oz |
| Power | One ½ AA. Up to 24 continuous hours | C cell (30 hrs), D cell (70 hrs) | 2 AA lithium batteries, 23 hrs continuous use | 2 AA | Built-in Rechargeable Batteries |
| Memory Storage Description | Internal RAM | Compact Flash 2 or 4 GB (max of 150 hrs w/ 4 GB) | SD RAM | Compact Flash | SD RAM |
| Recording Time Capability | 2 nights | Up to 6 days depending on the specific configuration used. | Up to 60 hrs on a memory card | 2 days | Up to 3 sleep studies or multiple start and stop times |
| Basic Features | Carrying case included, connects to computers via USB port, will deliver results while patient is on CPAP, includes video instruction for patient, analytical software included | Carrying case included, connects to computers via USB port (Ethernet), will deliver results while patient is on CPAP, 24/7 technical support included, analytical software included | Carrying case included, connects to computers via USB port, will deliver results while patient is on CPAP, includes video instruction for patient, wireless, 24/7 technical support included, analytical software included | Carrying case included, includes video instruction for patient, wireless, 24/7 technical support included, analytical software included | Carrying case included, connects to computers via USB port/Serial port, will deliver results while patient is on CPAP, includes video instruction for patient, 24/7 technical support included, analytical software included |
| Additional Features | Audio playback, EDF Export, FFT audio analysis, internal body position, internal pressure transducer, internal pulse-ox, steel lemo connectors, volume in decibels, 24-hour ECG capability | Cadwell offers a single channel amplifier that can be used for an active/ref pair, and they can be daisy chained together. For a Type III or IV study, the 23-channel amp is not even needed. | The SleepScout system includes CleveMed's proprietary Crystal PSG™ software, the same sophisticated software used with the Crystal Monitor® PSG series (20-B and 20-S) and Sapphire PSG™, allowing you to use one software package for both attended and unattended sleep studies in the sleep lab, home, or hospital. | No PC required for setup or to review signal quality. RIP technology integrated. ECG analysis software available. | Packaged free and easy to use software, patient setup instruction card, color-coded inputs for ease of use, low cost per use, lightweight, comfortable, durable, meets AASM Home Sleep Testing criteria. Compatible with Enterprise™ Sleep Business and Patient Management software, and Cardiopulmonary Coupling Module for a picture of patient sleep quality, and predicting treatment efficacy. |

| Company | Grass Technologies | Itamar Medical | Natus Medical Inc | Nihon Kohden America Inc | NorthEast Monitoring Inc |
|---|---|---|---|--|---|
| Product Name |  SleepTrek3 |  Watch-PAT 200 |  Trex |  Trackit 18+8 |  LX Sleep and OxyHolter |
| Website | www.grasstechnologies.com | www.itamar-medical.com | www.natus.com | www.nkusa.com | www.NEMon.com |
| Cost/Warranty | \$3,995/3 Year | \$4,400/1 Year Extended Warranty: \$425 | Contact Natus for cost information/1 Year | Contact Representative/1 Year | \$5,690 (MSRP), 3 year warranty |
| Cost of Consumables per Study | Cannulas that vary in price. | \$75 per test | Contact Natus for cost information | Variable | Under \$3 |
| Type | Type III | *CMS recognizes as a Type of its own. | Type II | Type II | Type IV |
| Total Number of Channels and Channel Description | 6 Channels Airflow, Snore, Respiratory Effort, Body Position, Pulse Rate, SpO ₂ | 6 Channels PAT (Signal & Amplitude), Pulse Rate, Oxygen Saturation, Actigraphy, Snoring (in decibels), Body Position | 24 Referential Channels 4 DC, 4 Differential, Pulse Oximetry | Up to 32 Recording Channels 18 EEG, 8 Poly (monopolar, bipolar, or low voltage DC), 4 AUX high voltage DC channels, Pulse Oximeter (Sao ₂ and Pulse Wave) | 6 Channels EKG 1, EKG 2, SpO ₂ , Pulse/beat (2 sources - SpO ₂ and EKG), Airflow, Respiration (eDRS) |
| Product Dimensions | 6.2" W x 3.5" H x 1.0" D (15.8 cm x 8.9 cm x 2.5 cm) | 3.1" x 1.9" x .8" | 6.1" x 4" x 1" | 6.5" x 3.54" x 1.38" (16.5 cm x 9 cm x 3.5 cm) | 3.1" x 1.9" x .8" |
| Weight (including batteries) | 10 oz (280 g) | 4.5 oz (0.13 kg) | 11 oz | <17.63 oz (<500 g) | 7 oz |
| Power | 1 Rechargeable Battery, 3.6 V Lithium | 1 Rechargeable Lithium Ion; ~10 hrs of continuous use. | 2 AA batteries | Expandable 3 9-volt battery bay | 2x AA batteries |
| Memory Storage Description | Compact Flash | Micro SD RAM | Flash Memory | 2 GB or greater Compact Flash II | 32MB to 1 GB compact flash |
| Recording Time Capability | 12+ hrs | 1 day | Up to 96 hrs | 96 hrs w/o Bluetooth 60 hrs with Bluetooth | 96 hrs w/o Bluetooth 60 hrs with Bluetooth |
| Basic Features | Carrying case included, connects to computers via USB port, includes video instruction for patient, wireless, 24/7 technical support Included, analytical software included | Carrying case included, connects to computers via USB port, includes video instruction for patient, 24/7 technical support included, analytical software included | Carrying case included, connects to computers via USB port, 24/7 technical support included, analytical software included | Carrying case included, connects to computers via USB port, connects to computer via Serial port, will deliver results while patient is on CPAP, wireless, 24/7 technical support included | Carrying case included, connects to computers via USB port, connects to computer via Serial port, will deliver results while patient is on CPAP, 24/7 technical support included, analytical software included |
| Additional Features | 1 Color-coded Multi-PSG Sensor includes: airflow, respiratory effort, snore, and position. Also includes simple instruction card for patient. | Sleep Stages: REM, Deep, Light, Wake. RDI, AHI, ODI based on actual sleep time. Single button operation. Less than 2% failure rate. *From CMS decision: "A sleep testing device measuring three or more channels that includes actigraphy, oximetry, and peripheral arterial tone is covered." | A compact and lightweight amplifier, suitable for both adults and children. Trex supports both EEG and PSG studies and is capable of recording up to 96 hours of data, taking less than 5 minutes to upload 24 hours of data. The integrated Microsoft SQL® Server database enables quick and efficient data retrieval. | Optional Bluetooth, interfaces with Polysmith DMS, up to 256 Hz sampling, EDF file format, auto-start recording with valid oximetry | System includes EKG Holter analysis software, training, installation assistance. Address a wide variety of CPT codes with this equipment: 93230 – Holter, 95806 / G0400 / G0399 – HST, 94620 – 6MWA 94762 – Overnight Oximetry |

Information for this guide based on data submitted by product manufacturers. Sleep Review strives for accuracy in all data but cannot be held responsible for claims made by manufacturers.

| Company | Philips Respironics | | ResMed | VivoMetrics Inc | Watermark Medical |
|---|--|---|--|---|---|
| Product Name |  Alice PDx |  Stardust II |  ApneaLink Plus |  LifeShirt |  Apnea Risk Evaluation System (ARES) |
| Website | www.respironics.com | www.respironics.com | www.resmed.com | www.vivometrics.com | www.watermarkmedical.com |
| Cost/Warranty | Call your Respironics representative/2 Year | Call your Respironics representative/1 Year | \$1,995/2 Year | \$4,950-\$10,000/1 year | \$3,995/1 Year |
| Cost of Consumables per Study | Call your local Respironics representative | Call your local Respironics representative | ~\$7 (w/reusable Oximetry sensor) | \$5-\$15 per test | Varies based on services |
| Type | Type II, III, IV | Type III, IV | Type III | Type III, upgradeable to Type II | Type III, upgradeable to Type II |
| Total Number of Channels and Channel Description | 20 Channels Airflow/Pressure, Snore, Thoracic/Abdominal Respiratory Effort, SpO ₂ , Pulse Rate, Body Position/Activity/EMG, EEG, Event, EKG/ECG, Pressure, Flow, Leak, Pulse Transit Time, Heart Rate | 7 Core Channels Airflow/Pressure, Snore, Respiratory Effort, SpO ₂ , Pulse Rate, Body Position, Patient Marker 5 Additional Therapy Channels Available Auto Detected Events, Therapy Pressure, Patient Flow, Leak, Respiratory Rate | 4 Channels Nasal Flow, Pulse, Oxygen Saturation, Respiratory Effort | 5 Channels Thoracic Respiratory Movement, Abdominal Respiratory Movement, ECG, Oxygen Saturation, Body Position/Activity Level | 7 Channels Oxygen Saturation, Airflow (nasal pressure), Pulse Rate, Snoring, Respiratory Effort, Head Position/Movement, Sleep/Wake |
| Product Dimensions | 5.0" x 3.0" x 2.0" | 4.5" x 2.3" x 0.78" | 4.6" x 2.4" x 1.2" | Garment Sizes XS - XXXL Recorder: 5.4" x 3.25" x 1.95" | 2.5" x 2" x 1" |
| Weight (including batteries) | 0.48 lbs | .22 lbs | 2.9 oz | 350 g | 3.4 oz |
| Power | 3 1.5-V AA or 3 1.5-V, AA NiMH rechargeable batteries. ~24 hrs | 1 ea 9-V, ~16 hrs | 2 AA, Min 10 hrs | 2 Rechargeable | 2 x Lithium polymer rechargeable 250 mAh, >21 hrs |
| Memory Storage Description | SD Flash Card; 1 GB SD provided (up to 4 GB available) | Internal Flash storage Storage capacity: 1.4 MB | RAM | Compact Flash Card (Records min 24 hrs) | SD Flash Memory Card |
| Recording Time Capability | 18-20 hrs | 8.5 hrs | Min 8 hrs | Up to 24 hrs w/out recharging, unlimited with recharge | 3 days |
| Basic Features | Carrying case included, will deliver results while patient is on CPAP, 24/7 technical support included | Carrying case included, connects to computers via Serial port, 24/7 technical support included, analytical software included | Carrying case included, connects to computers via USB port, includes video instruction for patient, analytical software included | Carrying case included, connects to computers via USB port, analytical software included | Carrying case included, connects to computers via USB port, will deliver results while patient is on CPAP, includes video instruction for patient, wireless, 24/7 technical support included, analytical software included |
| Additional Features | a) Patent-pending "Good Study Indicator" to evaluate test quality in the home. b) Patient Event Marker, sets an event marker during recording. c) Optional equipment: ECG yoke, ExG yoke, ECG and neurological electrodes (for ExG), Alice PDx SleepLink cable, Alice PDx RS232 Sleep Therapy cable. | a) w/Respironics Therapy Device; also Auto Therapy Detected Events, Tidal Volume, Cumulative Time at Pressure %, Pressure can be CPAP/IPAP/EPAP b) Patient event marker button | Proprietary respiratory effort sensor; apnea classifications; summary report with graphic risk indicator; event history page; automatic and manual scoring; customizable analysis parameters (AASM default); Cheyne-Stokes Detection; Export to CVS, EDF, and EDF+ formats; e-mail report; e-mail recording detail; add logo; referral and prescription pages. | Type III, FDA approved. LifeShirt is the only system that integrates respiratory inductance plethysmography, ECG/HR, SaO ₂ , and posture/activity levels into a lightweight, comfortable, breathable, and easy-to-use garment. It has been used by over 300 leading research, clinical, academic, and pharmaceutical institutions worldwide. | Quality assurance program on every study from a sleep technologist; auto detection of sleep/wake and REM/nREM; voice-prompted instructions and alerts provided during use; batteries charged <2 hours and files removed <5 seconds via USB port; study report uses H&P information to provide a validated pretest probability and patient management recommendations. |