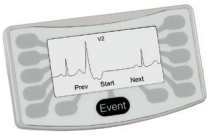
Company	Advanced Brain Monitoring	BRAEBON Medical	Cadwell Laboratories Inc	CleveMed (Cleveland Medical Devices Inc)	Compumedics USA Inc
Product Name	 X4/Sleep Profiler	 MediByte Jr	 ApneaTrak with Easy III Software	 SleepView Monitor + Web Portal	 Somté
Website	www.advanced-sleep.com	www.braebon.com	www.cadwell.com	www.clevemedsleepview.com	www.compumedics.com
Cost	See website for introductory and research pricing	$2,750	$4,650	$2,250	$3,450
Warranty	1 year	1 year	1 year	1 year	1 year
Cost of Consumables per Study	Depends on configuration	$7	$2.50	$8.50	<$4
Type	N/A	Type III	Types III and IV	Type III	Type III
Total Number of Channels and Channel Description	8 channels: 3 channels frontal EEG, aux EMG or ECG, pulse rate, snoring (dB), head movement, head position.	7 channels: oronasal airflow, snoring (airflow), CPAP flow, CPAP pressure, chest RIP effort, SpO_2, pulse rate, body position.	10 channels: airflow (thermal sensor), nasal pressure/mask pressure, chest respiratory effort belt (choice of RIP or PVDF), abdomen respiratory effort belt (choice of RIP or PVDF), snoring microphone, snoring signal (pressure transducer), oximeter (SpO_2 sensor), pulse rate, body position, event button (marking lights on/off and/or other significant events).	8 channels: respiratory effort belt (RIP), body position, airflow (thermistor), airflow (pressure based), snore (from cannula), heart rate, pulse oximetry, actigraphy (with web portal).	Up to 13 channels from 8 inputs: nasal pressure, snoring, CPAP mask pressure, thoracic and abdominal effort, body position, SpO_2, pulse rate, plethysmography waveform, signal quality, limb movement (or optional nasal thermistor), 2xEXG (EEG, EOG, EMG, ECG, or Off).
Product Dimensions	2.1" x 1.5" x 0.75"	2.5" x 2.25" x 0.75"	3.7" x 3.5" x 0.8"	3" x 2.6" x 0.7"	Recorder: 4.5" x 2.5" x 1.2"; sensor interface: 3.0" x 1.75" x 0.9"
Weight, Including Batteries	2.5 oz	3.2 oz	4.3 oz	2 oz	8.2 oz
Power	Built-in lithium polymer battery	½ AA lithium battery	NiMH battery	AAA battery	2 AA batteries, alkaline or re-chargeable NiMH
Memory Storage Description	Micro SD 2 GB	128 MB	512 MB, nonvolatile internal memory	Removable SD card	Compact flash card
Recording Time Capacity	Up to 16 hrs	Two 9-hr nights	24 hrs (two 12-hr recording sessions)	12 hrs	36 hrs total
Basic Features	Forehead-based full-disclosure signals auto-scored with validated algorithms that are editable. Ideal for multinight pre- and post-treatment assessment of sleep architecture and sleep continuity.	Patented oronasal cannula. Full data disclosure auto-scoring software with all SDB analysis including RERA, flow limitation, and breath statistics analysis, SpO_2 perfusion indicator, carrying case, patient instructional video, USB cable.	Carrying case included, connects to computer via USB port, capable of testing patient with CPAP, video instructions provided on DVD as well as online video instructions, 24/7 live technical support.	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, and analysis, scoring, and reporting software.	Carrying case included, will deliver results while patient is on CPAP, includes video instruction for patient, 24/7 technical support, and analysis, scoring, and reporting software.
Additional Features	Validated EEG-based measures of sleep quality provide superior objective assessment. Real-time monitoring and voice messages ensure high-quality acquisition with data downloaded in seconds via USB 2.0.	CPAP compatible, multiple nights, immediate report access, unlimited custom reports, locking connectors, stainless steel Lemo connector, LED status indicator, all internal biosensors, complies with guidelines.	Recorder has sensor and recording status to reassure patient recording is proceeding as planned. Enterprise features allow data to be sent via the Internet to remote servers. Options for fee-per-use for those that want to eliminate up-front costs on an HST system.	IDCheck to verify patient's identity, SmartCheck to verify a good study has been recorded before the patient returns the equipment, SensorCheck lights to indicate proper sensor connection.	Designed for basic HST workflow with fully automated respiratory event analysis and quick customized reporting. Supports both nasal pressure and thermistor airflow signals. Available software supports determination of real, sleep-time based RDI, analysis of PLMs, and advanced ECG analysis (arrhythmias, HRV, ST-segment).

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.*

Itamar-Medical	MyCardio LLC	Natus Medical Inc	Nihon Kohden America Inc	NorthEast Monitoring	NovaSom Inc
 WatchPAT	 SleepImage	 Embletta MPR PG	 Nomad	 OxyHolter with LX Sleep	 AccuSom
www.itamar-medical.com	www.sleepimage.com	www.natus.com	www.nkusa.com	www.nemon.com	www.novasom.com
$4,250 (or rental option)	$185/month	$3,850	Ask sales representative	$3,795	Full-service offering; complete data acquisition, scoring of data, and reporting on a fee for service basis
1 year (options for additional years)	1 year	1 year	1 year	3 years (option for an additional 2 years)	N/A
Depends on package	$2.50	$7-$10	$5	$4 (approximately)	No charge
Type III	N/A	Type III	Type III	Type III (OxyHolter/A)	Type III
7 channels: PAT respiratory analysis (signal and amplitude), oxygen saturation, pulse rate, actigraphy, snoring (dB), body position, sleep time, sleep stages.	8 channels: actigraphy, snoring, body position, heart rate, respiratory effort, ECG, oximetry (optional), cardiopulmonary coupling spectrogram (CPC).	Up to 19 recorded channels: pressure, sound, gravity (X/Y/Z), bipolar ExG, thermistor, thoracic effort (RIP), abdominal effort (RIP), DC (0–1 V), battery, event button SpO_2, SpO_2 B-B, SpO_2 quality, pulse rate, plethysmogram, RD quality, PPG; 7 derived channels: nasal flow, mask pressure, snore, sound amplitude, body position, activity, elevation (multiple additional traces derived by software).	11 channels: thermistor, pressure transducer, snore (derived from pressure transducer), body position sensor (internal), SpO_2, pleth wave (derived from SpO_2), pulse wave (derived from SpO_2), chest effort, abdominal effort, 2-EMG channels, 1-DC input.	6 channels: EKG 1, airflow (OxyHolter/A) or EKG 2 (OxyHolter), SpO_2, HR1 from SpO_2, HR2 from EKG, respiration via eDRS (EKG-derived respiratory signal)	5 channels measured directly: airflow (linear correlation to pneumotach, oral and nasal airflow), respiratory effort, oxygen saturation, heart rate, and snoring (dB)
3.1" x 1.9" x 0.8"	3.1" x 1.9" x 0.5"	3.9" x 2.8" x 0.4"	4.625" x 2.85" x 1.0"	4.7" x 2.7" x 1.0"	5.0" x 3.0" x 1.0"
4.5 oz	0.8 oz	5.4 oz	17 oz	7 oz	8.8 oz
1 rechargeable lithium ion mAh; ~17 hours	2 coin cell batteries	2 AA batteries, standard alkaline or rechargeable	2 AA batteries	2 AA batteries; lithium—72 hrs; alkaline—48 hrs; rechargeable—24 hrs	Battery (DC) with AC charger
MicroSD RAM	500 MB RAM	2 GB	Internal memory 2 GB	32 MB to 1 GB compact flash	SDRAM: 1 Meg Bits x 16 Bits x 4 Banks = 64-MBIT, with a clock frequency of 143 Hz
3 consecutive nights	Up to 120 hrs	24 hrs (three 8-hr recording sessions)	17 hrs	Memory requirement is ~25 MB/24 hr	25.5 hrs
Carrying case included, connects to computers via USB port, connects to computer via serial port, will deliver results while patient is on CPAP, includes video instruction for patient, wireless, 24/7 technical support, and analysis, scoring, and reporting software.	Carrying case included, connects to computers via USB port, connects to computer via serial port, will deliver results while patient is on CPAP, includes video instruction for patient, and analysis, scoring, and reporting software.	Carrying case included, connects to computers via USB port, connects to computer via serial port, will deliver results while patient is on CPAP, includes video instruction for patient, wireless, 24/7 technical support, and analysis, scoring, and reporting software included.	Connects to computers via USB port, connects to computer via serial port, will deliver results while patient is on CPAP, includes video instruction for patient, wireless, 24/7 technical support, and analysis, scoring, and reporting software.	Carrying case included, data card reader connects to computer via USB port, will deliver results while patient is on CPAP, 24/7 technical support included, analytical software included.	Direct measurement of AASM-recommended parameters; order entry and test interpretation available through cloud-based platform; test shipped directly to patient; device programmable in 10 languages for patient setup; wireless transmission of data each morning after testing for same-day interpretation; toll-free 24/7 clinical support provided for patients; infection control and biomedical inspection performed per protocol.
HIPAA, AASM, and CMS-compliant, cloud-based upload; national coverage via board certified sleep physician interpretation service; tamper-proof bracelet for trucker testing; theft/breakage warranty.	Low cost, simple, unobtrusive, and objective measure of sleep quality, not just apnea. Indicates obstructive, central, and complex apnea, PLM, and impact of sleep disruption due to insomnia, pain, FMS, or any other physiological or environmental factor. Will demonstrate benefit and compliance of sleep therapy, whether from a device, medication, or behavioral modality.	Study quality indicator, bio sensor auto start, patient demographic and signal display, available 8-channel DC wireless proxy.	With Polysmith Software Package, schedule HST patients on DMS calendar, initialize recorder from calendar interface, initialize recorder from Polysmith interface, auto configure Polysmith for analysis by the type of recorder being used (Type II or Type III) when recording is loaded.	Highly automated, repeatable, consistent AHI measurement; ideal for pre- and post-treatment efficacy assessments; 95+% sensitivity and specificity for OSA vs concurrent PSG studies; system includes recorder, cable, analysis software, training, installation assistance. Additional DR181+recorders+OxyHolter cables from $2,695.	Test samples sensor data at 0.1 second intervals; firmware identifies and records apnea and hypopnea events.

Company	Nox Medical	Philips Respironics	ResMed	SleepMed Inc	SOMNOmedics America Inc
Product Name	 NOX-T3	 Alice PDx	 ApneaLink Plus	 ARES	 SOMNOscreen plus
Website	www.noxmedical.com	www.philips.com/sleepdx	www.resmed.com	www.sleepmedinc.com	www.somnomedics-diagnostics.com
Cost	Contact Nox Medical	Call your Respironics representative	$2,490 (includes accessories for 3 studies)	$339/unlimited use monthly rental (device, technical edits, and study consumables included)	Depending on channel configuration
Warranty	2 years	2 years	2 years	Lifetime of rental	2 years
Cost of Consumables per Study	Depends on configuration	Call your local Respironics representative	$7-$10	Included in rental	Depending on channel configuration, ranging from $1.60 to $2.10
Type	Type III	Type II, III, IV	Type III	Type III	Types I-IV
Total Number of Channels and Channel Description	16+ channels: flow, snoring, 2x effort, RIP sum, RIP flow, SpO_2, pulse, plethysmogram, body position, activity, complete audio, cal. audio volume in dB, event, 2x ExG, information from up to 7 auxiliary devices with multiple channels per each one can be recorded via Bluetooth.	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	4 channels: nasal flow (and snore), pulse, oxygen saturation, respiratory effort	9 channels: airflow, heart rate, head position, head movement, snoring, SpO_2, EEG, EOG, EMG; 7-channel: airflow, respiratory effort, heart rate, head position, head movement, snoring, SpO_2.	1-58 naso/oral flow (thermistor and nasal cannula), snoring, 2x RIP efforts (chest and abdomen), body position, SpO_2, pulse rate pulse waveform, pulse plethysmography, movement, motor activity, ambient light, patient marker, 2x PLM, EEG, EMG, EOG, ECG, AUX for external devices.
Product Dimensions	3.11" x 2.48" x 0.83"	5.0" x 3.0" x 2.0"	4.6" x 2.4" x 1.2"	2.5" x 2.0" x 1.0"	5.5" x 2.8" x 1.1"
Weight, Including batteries	3.1 oz	7.7 oz	4.5 oz, includes batteries and oximetry	3.4 oz	9.1 oz
Power	1 AA battery (alkaline, lithium, or NiMH)	3 1.5-V AA or 3 1.5-V AA NiMH rechargeable batteries; ~24 hrs	2 AA batteries, single use or rechargeable	2 x lithium polymer rechargeable 250 mAh, >21 hrs	2 lithium batteries, rechargeable
Memory Storage Description	1 GB internal	SD Flash Card; 1 GB SD provided (up to 4 GB available)	15 MB internal RAM	SD Flash Memory Card	High Speed Compact Flash Card (up to 2 GB)
Recording Time Capacity	Up to 24 hrs including true audio recording	18-20 hrs	Minimum 8 hrs, up to 15 hrs	3 days	Up to 55 hrs
Basic Features	Carrying case included, one click upload and analysis via USB port, wireless, CPAP compatible recordings, analysis, scoring, and reporting software, and hook-up instructions for the patient.	Carrying case included, will deliver results while patient is on CPAP, 24/7 technical support included	Automatic analysis, AASM definitions as default, configurable parameters, customizable report with easy to understand graphic AHI indicator and ability to add business logo, customizable flow signal view with manual editing, proprietary respiratory effort sensor, Cheyne-Stokes probability detection, e-mail report and/or complete study, exportable to EDF, EDF+, and CSV.	Carrying case included, connects to computer via USB port, includes video instruction for patient, reports retrieval and raw data access and editing via cloud-based portal.	Carrying case included, connects to computers via USB port, will deliver results while patient is on CPAP, wireless, 24/7 technical support, and analysis, scoring, and reporting software.
Additional Features	Audio recording from a built-in microphone for improved snoring detection and frequency analysis, SpO_2, pulse and plethysmography from a wireless Bluetooth oximeter, high signal quality RIP belt technology for calibrated RIP flow, wireless interface, eg, with capnography- and nPAP-devices, diagnostic statistics instantly available after download, bruxism and leg movement analysis included.	Patent-pending "Good Study Indicator" to evaluate test quality in the home. Patient Event Marker sets an event marker during recording. Optional equipment: ECG yoke, ExG yoke, ECG and neurological electrodes (for ExG), Alice PDx Sleeplink cable, Alice PDx RS232 Sleep Therapy cable.	Extended report includes event graphic page, five measures of oxygen saturation, carrying case included, connects to computers via USB port, video instruction for patients and clinicians, 24/7 technical support included, program software, backwards compatible to all versions. No license fees.	Technical edit on every study by sleep technologist, auto detection of sleep/wake and REM/nREM, voice prompted instructions and alerts, six validation study versus in-lab PSG, chain of custody mode available.	Miniaturized, portable and flexible, continuous impedance check, 2 software licenses included, interchange head boxes from 4 to 33 channels, CPAP compatible, software with Easy Start function, blood pressure software PTT, ambulatory and online (real-time wireless data transfer via Bluetooth), flexible for any configuration from screener to a full PSG.

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