Good study results, better night's sleep

Alice PDx Diagnostic System

The Alice PDx is a portable, diagnostic recording device for OSA screening, follow-up and diagnostic assessment of cardio-respiratory sleep disorders. The Alice PDx enables you to test your patients outside of the lab without compromising study results, helping you to avoid the costs associated with retesting.

The Alice PDx incorporates our unique Good Study Indicator (GSI).* The GSI is predicated on airflow and oximeter signal quality and displays the amount of "good quality data" needed for a study to be complete and valid. The indicator measures patient airflow, gathered by the nasal cannula and/or the oral thermistor, airflow from therapy devices, and pulse oximetry, gathered by the SpO_2 sensor. Without either of these signals, the sleep study would be declared diagnostically invalid because of insufficient data.

Optional equipment
ECG yoke; ExG yoke; ECG and neurological electrodes (for ExG); therapy device communication cable; ventilation device communication cable

Basic PC recommendations
Windows®-compatible personal computer running Windows Vista Business, Windows 7 professional (64 bit), Windows 8 professional (64 bit) with a CD-RW drive.
• Intel® Pentium® 3 processor (500 MHz) or greater, processor (1 GHz) required for Windows Vista computers
• 512 MB system memory, 1 GB or higher for Windows Vista computers

The base configuration channel set supports testing requirements for levels three and four and includes:

• nasal pressure cannula
• oral thermistor
• zRIP abdominal and chest belts
• SpO_2
• body position

In addition to the basic channel set indicators, there are also indicators for the optional ECG and ExG yokes and the optional therapy interface.
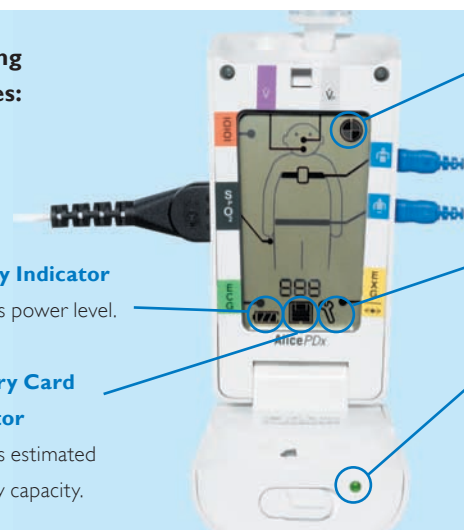

Good Study Indicator
configurable for the number of hours required for a valid study

Device Error Indicator
indicates the need for service.

Status Indicator
displays green to indicate proper operation or yellow for operation error (i.e., disconnected sensor).

Battery Indicator
indicates power level.

Memory Card Indicator
provides estimated memory capacity.

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Product specifications

Specifications:

Total channels:	Up to 21 with Optional ECG and ExG Yokes
Base channels:	10 Channels: Pressure-Based Flow (w/snore) and Thermal Airflow, zRIP Effort (2), Body Position, SpO_2 (also Pleth and Pulse Rate) and Patient Marker. Up to eight parameters from Philips Respironics therapy devices may be acquired, including pressure, flow and leak.
Optional yokes/ channels:	ECG Yoke; 7 channels: 3-lead ECG providing 3 measured and 4 derived channels ExG Yoke; 7 channels: 4 Neuro Channels (EEG or EOG) and 3 Differential EMG, plus references and ground
Input impedance:	10 MΩhm per elec. 20 MΩhm differential 2 MΩhm per elec. 4 MΩhm differential 2 MΩhm per elec. 4 MΩhm differential
Bandwidth:	ECG: 0.318 Hz to 81 Hz EEG: 0.318 Hz to 35 Hz EMG: 9.7 Hz to 86 Hz
Input signal range:	ECG: +/- 4 mV EEG: +/- 500 uV EEG: +/- 150 uV
Digital resolution:	Up to 16 bits
Initial sample rate:	Up to 1,000 Hz
Max storage rate:	200 Hz for ECG/ExG, 100 Hz for Effort and Thermal Flow, Pressure Flow 200 Hz, Snore 500 Hz, Body Pos. 1 Hz
Communication interfaces:	Serial Protocol USB PC cable, SleepLink and Serial communication cables for Philips Respironics Therapy devices

System physical characteristics:

Alice PDx unit:

Size:	5" L x 3" W x 2" H (12.7 cm x 7.62 cm x 5.08 cm)
Weight:	Approximately 8 oz (230 grams), (weight does not include batteries)
System power:	Three AA (1.5V) alkaline batteries, 0.43 watts
Requirements:	Alice PDx can support the use of rechargeable batteries

Ordering information:

Item No.	Description
1043844	Alice PDx Device Kit, International
Optional components:	
1048415	ExG Yoke, Alice PDx, International
1040810	ECG Yoke, Alice PDx, International
Accessories:	
1040806	Alice PDx to SleepLink Cable
1040805	Alice PDx to RS-232 Sleep Therapy Cable
1116888	3 foot SpO_2 extension cable
936	SpO_2 Reusable Sensor, Adult Finger Clip
953	SpO_2 Reusable Flex Sensor, Adult
954A	Adult Reusable Sensor Wrap (25/pack)
P1328-60	Pro-Flow Nasal Canula, Adult (60/pack)
P1379	Oral Thermistor, Alice PDx
P1388	Nasal-Oral Thermistor, Alice PDx
P1391	CPAP Titration Kit (for non-Philips Respironics therapy devices)
Software:	
Sleepware (included with purchase)	

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