

# Sleep **Alice PDx**

Portable sleep diagnostic system

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The Alice PDx portable diagnostic recording device is intended for Obstructive Sleep Apnea screening, follow-up and diagnostics in polysomnography and sleep disorder studies. Patients can be tested in the hospital or at home.

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## Specifications

### Physical characteristics

Size • 5 L x 3 W x 2 H (12.7 x 7.62 x 5.08) "/cm

Weight Approximately 8 oz (230 grams), weight does not include batteries

### Channels

Total channels Up to 21 with Optional EXG and ExG Yokes channels

Standard channels • Pressure Based (w/snore) and Thermal Airflow, zRIP Effort (2), Body Position, SpO2 (also Pleth and Pulse Rate), Respironics Therapy Device Parameters, Pressure and Flow from non-respironics therapy devices. channels

Optional Yokes/Channels (a) • ECG Yoke; 3-lead ECG providing 3 measured and 4 derived channels for a total of 7 channels

Optional Yokes/Channels (a) • ExG Yoke: 4 Neuro Channels (EEG or EOG) and 3 Differential EMG, plus references and ground.

### Input impedance

ECG 10 M $\omega$  per Electrode 20 M $\omega$  differential

EMG 2 M $\omega$  per Electrode 4 M $\omega$  differential

EEG 2 M $\omega$  per Electrode 4 M $\omega$  differential

### Bandwidth

ECG (a) 0.318 to 81 Hz

EEG b• 0.318 to 35 Hz

EMG a 9.7 to 86 Hz

### Input Signal Range

ECG b  $\pm$  4 mV

EEG  $\epsilon \pm 500 \mu\text{V}$

EEG  $\delta \pm 150 \mu\text{V}$

Digital Resolution

Up to 16 bits

Initial Sample Rate

Up to 1 Hz

Max Storage Rate

ECG/ExG • 200 Hz

Effort and Thermal Flow 100 Hz

Pressure Flow • 200 Hz

Snore • 500 Hz

Body Pos. • 1 Hz

Communication interfaces

Serial Protocol • USB PC cable

SleepLink and Serial communication cables for our therapy devices

System Power Requirements

Alkaline batteries Three AA (1.5V) 0.43 watts typical