

Case Study: *Medical Monitor for Sleep Apnea*

A acumen Instruments Corporation™ developed a custom data recorder for a leading medical services company. Based on the Iomega Zip™ drive and DataBridge™ technology, the device, used for at-home sleep studies, serves as a cost-competitive replacement for the analog tape recorders the company previously employed.

Doctors send these monitors home with patients, who record their breathing patterns while sleeping. Patients return the recorder to their doctor, who then sends a disk to Acumen's customer for analysis.

A complete solution.

Acumen assisted the firm in prototype design and testing, the FDA device approval process, software development, and resolving manufacturing issues, such as enclosure design and cost reduction.

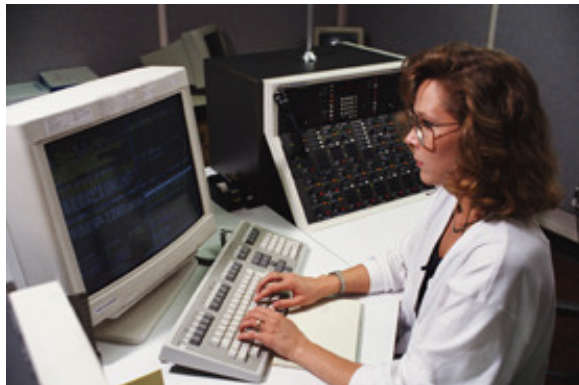
Improved profitability.

Using Acumen's data recording system, a technician can arrive at a diagnosis in 15-30 minutes. Using analog tape, data analysis by trained personnel took about 8 hours. Since the customers revenues come exclusively from diagnosis services, the company has been able to increase productivity and profit significantly using Acumen's system.

DataBridge™ technology makes it possible.

The digital recording system is based on a DataBridge chip customized for recording audio data and signals from other sensors.

Acumen's technologies and expertise made this project a success for the analysis firm, the doctors, and their patients.



For more information

Contact Acumen Instruments Corporation for details.

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