CYBERNET

Healthcare Case Study

Pulmonary Sensor Manufacturer Picks Cybernet for New Device

Customer Bio

Founded in 2007, Endotronix is globally recognized medical device manufacturer specializing in patient management solutions for patients that have suffered advanced heart failure. They have two product lines, an at-home tablet interface to take daily health measurements and a Pulmonary Artery (PA) Pressure Sensor System which is still in the clinical trial phase.

ENDOTRONIX

Endotronix

Industry: Healthcare
Product: CyberMed S22
HQ: Lisle, IL

Challenge

Endotronix set out to develop a more robust system for performing calibrations in hospitals after their first experience in the use of the PA Pressure Sensor System. Just like the tablet was the brain of their at-home system, Endotronix knew that the computer hardware they chose to run their calibration software and interface with clinicians would be a critical piece. Immediately they identified the need to have a device that was 60601-1 certified for near patient use, since the system involved an implantable sensor for the patient.

They really wanted to find hardware that had an internal UPS for uninterrupted use when the calibration device was carted from one exam room to another, and a touch screen interface was also an important consideration to ensure the best possible user experience with their software. Lastly, they wanted the device to be equipped with an internal antenna for wireless transmission of data. Their original hardware used an external antenna, and they wanted a more durable option for daily use.

Solution

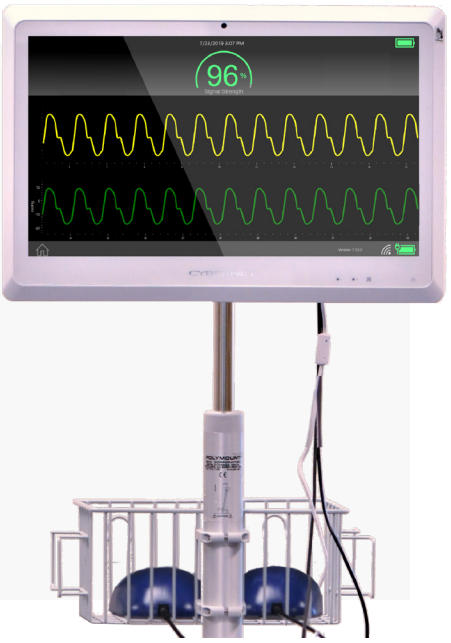
Endotronix evaluated a number of different manufacturers, but quickly realized that only one computer checked off all of their boxes. The CyberMed S22 had been put through independent testing and was certified IEC/UL 60601-1 for near patient use. A 5-hour internal UPS allowed the users to use the device uninterrupted as they moved from room to room. And the responsive touch screen on the 22" HD display fit their needs perfectly. And while it might have seemed like a small detail, the internal wireless antenna was a must have feature.

Beyond that, however, was Cybernet's production team, which had extensive experience working with device makers through the entire process of bringing a new medical device to use in a clinical trial setting. The responsiveness and availability of Cybernet's engineering team to answer any questions was something that Endotronix would come to rely on throughout the development process.

Results

Since deploying the CyberMed S22 units throughout their clinical trial sites, the team at Endotronix has been impressed with its success. The internal antenna has reduced concerns about antenna vulnerability, the UPS has allowed for freedom of movement, and the responsive touch screen has made the user experience incredibly intuitive.

Endotronix is swapping out units with their old hardware for the improved Cybernet solution, and Endotronix is considering having Cybernet image each and every calibration computer so that they are ready to go right out of the box. Should that call come, the team at Cybernet will be ready to answer.



"So far it's been great. People on our end are happy with [the Cybernet computers]. On our end, it just works for us. We've figured out small changes that we've wanted over the past year and manufacturing of those changes has been quite easy."

- S.S., Project Manager
Endotronix