

Patient Infotainment Terminals Bring Benefits to New Hospitals

Location: Trondheim, Norway

Introduction

In 2002, the St. Olav Hospital in Trondheim, Norway, was beginning to show its age. A decision was made to design a new hospital on the existing site from the ground up, over a ten year period. The administration wanted a hospital that was fully patient-centric. Their vision was to have “secure information available to the right person at the right time”.

In October 2008, another newly built hospital in Norway will open. For this hospital, the New Ahus, the vision is to construct a “paperless hospital”. Medical and non-medical work processes will all be digitized.

Building new hospitals requires partners that deliver tomorrow’s technology today. Advantech, working with its partner Imatis to design and integrate a total solution, is able to translate customer vision into reality.



Solution

“A terminal next to every bed”, was one of the defined requirements from the St. Olav and New Ahus hospitals. Advantech and Imatis collaboratively developed the bedside terminals, using Advantech’s Patient Infotainment Terminal, a fanless Intel Celeron® M 1.06 GHz processor-based system, with customized software applications by Imatis.

The Patient Infotainment Terminal with its user friendly design and interface is a multipurpose terminal that serves the patients’ needs for entertainment, information, communication and environmental control for room lighting, air conditioning and blinds. And while the terminal meets patient needs, it also meets the needs of medical professionals by providing secure bedside access to patient records, facilitating better patient care.

Advantech’s Patient Infotainment Terminal offers many features to the bed-side care environment. It has a cleanable housing, suitable for use in a medical care facility. It can easily be mounted with a swing arm and cable, saving space and providing easy access. The fanless design operates noiselessly, and the Patient Infotainment Terminal has an emergency call button for Service-on-Demand (SoD).

In addition to these features, the interactive design of the Patient Information Terminal provides patients with a rich multimedia experience. An Embedded CPU utilizing Windows XPe provides performance and stability. The user experience is enhanced by use of a touchscreen display, and the I/O expandability of the system provides for a broad selection of A/V interfaces.

By the end of 2008 there will be 880 Patient Infotainment terminals at the St. Olav Hospital and 600 at the New Ahus Hospital – delivered in partnership by Advantech and Imatis.

System



- System TV and Radio over IP
- Video
- Internet/ E-mail
- Telephone (VoIP)
- Information
- Light control
- Patient signal / Nurse Call
- Games - Xbox

Run Professional applications via a smartcard

Benefits

- Higher patient satisfaction
- Patient empowerment
- Shortened hospital stays
- Improved communication
- Patient stimulation
- Effective workflow
- Integrated nurse’s channel in the terminal
- Enables specialized notifications to personnel for patient requests like drink or toilet needs.
- Application content can be configured to patient need and situation.
- Content moves with the patient from terminal to terminal throughout hospital departments.

