Case Study

Excellence in KVM and Video

IHSE Draco tera KVM matrix switch helps Wisconsin hospital provide advanced monitoring for critical care of children

The Customer

The Children's Hospital of Wisconsin (CHW) operates the largest and most comprehensive pediatric neurosciences program in the state and ranks among the nation's best. It provides outstanding care in the treatment of childhood epilepsy and other neurodegenerative diseases.

The Challenge

A new inpatient facility was proposed at the hospital to include 22 patient rooms equipped with high-definition video cameras, together with state-of-the-art neuromonitoring capabilities. The plans included the latest high definition video technology and patient monitoring systems that would be accessible from a central Epilepsy Monitoring Control Room and operated in a simple manner that doctors and nurses would immediately feel comfortable with; requiring the minimum of training and achieving the greatest benefit.

The Solution

Based on an 80-port Draco tera compact KVM matrix switch, a system was designed by CHW in conjunction with BlackRock Neuromed, a specialist manufacturer of EEG and LTM equipment, that would allow 24/7 monitoring of patient rooms from the control room and nurse stations on the wards. In addition to the room-based equipment, the system supports several portable monitoring trolleys that can be quickly set up wherever needed and controlled remotely.

The matrix switch, computers and support equipment were installed in a main server room to maximize reliability and security. In the Epilepsy Monitoring Control Room observers use personal workstations (keyboard, mouse, two monitors) and wall-mounted screens that provide latency-free access to all central computers and monitoring cameras throughout the hospital.

The Benefit

The new KVM system allows clinical staff to control cameras remotely and access all patient monitoring equipment throughout the day and night to ensure the safety and continuous care of epilepsy patients.

“The IHSE system installed by Blackrock Neuromed solved our system requirements perfectly” said Dan Collins, Clinical Engineer for CHW. “Our staff is able to view and control our monitoring system and cameras remotely. There are numerous options to control network load and display images on the many displays that we have in the control room.”

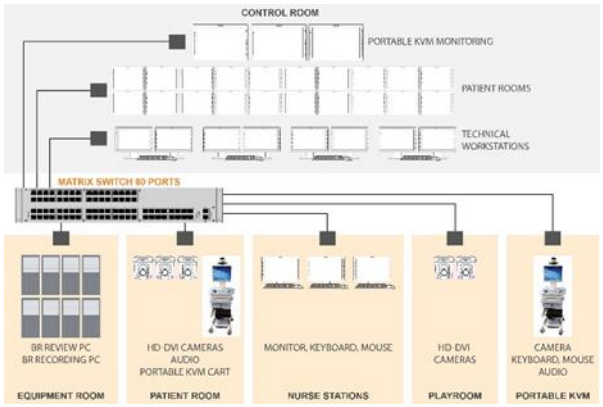
“The solution reduced the amount of equipment that was needed in the control and patient rooms. The ability to pull up any recording in the control room or patient rooms allows the hospital staff to share the workload when they are at their busiest, thus allowing the level of care the patient deserves.”

Jeremiah Johnston, Blackrock Neuromed

Patient Room with 3 HD DVI cameras

CHW Resident Physicians review patient data

Control Room Wall Displays



Functional Diagram

KVM products in use:

- **Draco tera compact** matrix switch
- **Draco vario** extenders
- **Draco compact** extenders

IHSE GmbH
Maybachstrasse 11 | D-88094 Oberteuringen | Germany
Phone: +49 7546 9248-0 | Fax: +49 7546 9248-48
Email: info@ihse.de | www.ihse.com