USE CASE SPOTLIGHT

Surgical Imaging and Patient Management in the Operating Room

As minimally invasive surgical procedures continue to increase, hospitals face growing demands for accurate surgical imaging, real-time video documentation, seamless patient data management, and reliable intra-operative communication. Fragmented systems and non-medical-grade workstations can limit workflow efficiency and complicate sterility management in operating room environments. To address these challenges, a hospital specializing in minimally invasive surgery deployed the WMP-22T-PIS medical-grade all-in-one PC to support surgical imaging workflows and patient management in the operating room.

Solution

The WMP-22T-PIS medical-grade OR all-in-one PC was implemented as the central computing and display platform for surgical imaging, patient monitoring, and telemedicine collaboration. Integrated with a Patient Monitoring Management System, the solution supports MWL and PDQ integration to ensure consistent and accurate access to patient data throughout surgical workflows. Powered by 13th Gen Intel® Core™ i7 processors, the system delivers reliable performance for real-time video capture, routing, and recording from surgical imaging equipment. Dual display outputs via DisplayPort and HDMI enable simultaneous monitoring and documentation, while network connectivity supports real-time telemedicine consultation with remote specialists when required. Designed for surgical environments, the WMP-22T-PIS features antibacterial aluminum housing, a fanless architecture, and IP65-rated protection, supporting hygiene, silent operation, and reliable continuous use.

Key Benefits

- Centralized surgical imaging and patient data management within the operating room
- Real-time surgical video capture, routing, and recording with low latency
- Telemedicine consultation enabling remote specialist collaboration during procedures
- OR-optimized hygienic design with antibacterial aluminum housing and IP65 protection
- Stable, uninterrupted operation supported by medical-grade system design