

## Transforming Surgical Imaging and Patient Management with Medical OR PC WMP-XT Series



### Background

A leading hospital specializing in minimally invasive surgeries faced several challenges in managing surgical imaging, patient data, and real-time communication. With an increasing number of procedures requiring precise video documentation, efficient data routing, and seamless integration with imaging equipment, the hospital sought an advanced solution to streamline operations in the operating room (OR) and examination rooms.

### Pain Points

- **Fragmented Imaging and Patient Data Management**

The hospital struggled with multiple standalone systems for managing patient data and imaging, leading to inefficiencies and potential data inconsistencies.

- **Inefficient Video Capture and Routing**

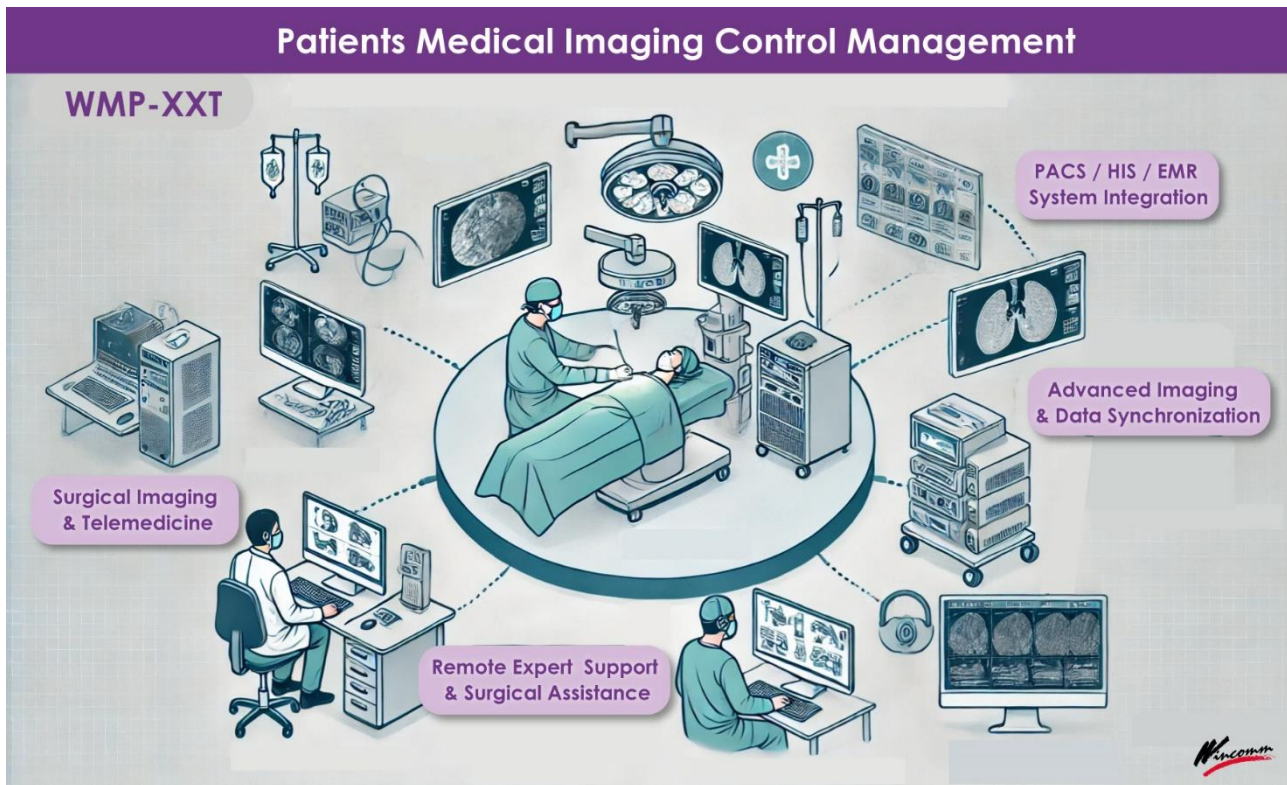
Surgeons required high-quality real-time video recording and routing within the OR, but existing systems had latency issues and lacked integration with endoscopic equipment.

- **Limited Telemedical Capabilities**

Remote consultations were difficult due to a lack of seamless telemedical conference solutions, impacting expert collaboration during critical procedures.

- **Sterility and Reliability Concerns**

Existing workstations were not optimized for sterile environments, leading to challenges in maintaining hygiene and system reliability.



### Wincomm Solutions

**To address these challenges, the hospital deployed the WMP-22T-PIS medical all-in-one PC in combination with the Patient Monitoring Management System. This solution delivered a transformative impact across several key areas:**

1. **Enhanced Patient Management**

- ✓ The **WMP-XXT**, integrated with the **Patient Monitoring Management System**, streamlined patient data management with **MWL and PDQ integration**, ensuring accurate and efficient handling of medical records.

2. **Seamless Video Recording and Routing**



- ✓ The **smart recording mechanism** of the Patient Monitoring Management, powered by the **WMP-XXT's Intel® 13th Gen Core™ i7 processor**, enabled ultra-efficient video capturing, even retroactively, ensuring no critical moment was lost.
  - ✓ Dual-screen support via **DisplayPort (DP) and HDMI** allowed simultaneous real-time viewing and analysis of surgical footage.
- 3. Optimized Telemedical Conferences**
- ✓ The **high-speed network connectivity** and advanced computing power facilitated **seamless telemedical consultations**, enabling remote specialists to assist in real time during surgeries.
- 4. Reliable and Hygienic Design**
- ✓ The **antibacterial aluminum housing (95% MRSA resistance)** ensured a safe and sterile surgical environment.
  - ✓ The **IP65-rated housing** made it easy to clean and disinfect, reducing infection risks.
  - ✓ The **fanless, silent design** minimized noise distractions during delicate procedures.
- 5. Uninterrupted Performance**
- ✓ The **built-in power supply** ensured continuous operation, eliminating concerns about power failures during critical surgeries.
  - ✓ The **PCIe x4 expansion slot** enabled high-speed data processing, optimizing surgical imaging performance.

By integrating the [WMP-XXT medical OR all-in-one PC](#) with the patient monitoring management system, the hospital successfully modernized its surgical imaging, patient data management, and telemedical capabilities. This deployment not only improved operational efficiency but also enhanced surgical precision, patient outcomes, and overall healthcare delivery.

The [WMP-XXT](#) has set a new benchmark for intelligent surgery, demonstrating the power of cutting-edge medical technology in transforming healthcare environments.

For more product information, please visit the Wincomm website at <https://www.wincommusa.com/category-Medical-Series-C001.html>