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Medical Video

Description: US Army *MASH*

This medical facility contains sixteen electronic operating rooms, one master control, a large auditorium, one recording studio, three A/B Roll editing suites and a 368-room RF distribution network.

All of the facilities connect to the master control via an automated audio/video router with an icon-based touch control interface. This system provides interconnectivity between operating rooms to the auditorium, O.R. to O.R., multi-point teleconference, or between any two given facilities.

The master control system addresses the connectivity, camera control, audio control, signal routing, CODEC dialing, calibration and testing issues. A single operator can control multiple productions and multiple activities.

Each operating room houses a mobile A/V cart and a robotic camera installed within the surgical light fixture. A 30-inch monitor is secured on top of a heavy-duty anti-tilt cart. The additional support equipment is neatly tucked away within this cart. This cart connects to a wall plate via one 26-pin connector, which links the operating room to the master control and the robotic camera(s). Additional auxiliary connection points are available via this cart(s) for laparoscopes, microscopes and/or other medical A/V devices. The cart(s) are also able to function independently of the system.

The 210-seat auditorium contains a high-resolution video/data projector, large format screen, and acoustic treatments with the express purpose to enhance bi-directional communication to the operating room(s) and/or far site communications.

The edit suites and the recording suites are used for medical and general video productions. The productions consist of anything from high level 3D animations to simple video messages.

The RF (CCTV) distribution system is very similar to the commercial cable network providing multiplexed channels via a single coax cable. This system is used to distribute outside cable channels, local TV channels, local VCR programs and live surgical procedures to dedicated rooms. The distribution system can be programmed to start VCR's, to playback a program or record off-air programs. In addition to the automated capabilities, this system can access the hospital's mainframe and interface for direct billing.

Application:

Medical Video Systems
Medical Training
Distance TeleMedicine

Capabilities:

- Central Control
- Auditorium
- Collaboration
- Multi-point
- Video Edit Suite
- Recording Studio
- S-VHS Sources
- Betacam Sources
- Robotic Camera Control
- Touch Screen Control