STUDIO SYSTEM DETAILS

Unique to the Rowan HDTV studio project are system requirements, configurations and design parameters that are to be included in the HDTV project plan. System configuration, locations of equipment, panels, interfaces and furniture are detailed below.

1. A 72x64 multi format digital AV router with discrete analog audio, expandable to 72x64. Remote operator panels in each control room (2), master control (1). Include web control interface. Locate mainframe in master control room.
2. Provide a Patch Panel bay for entire routing matrix of signals.
3. HDTV Camera chain will be fiber based, 4 input camera I/O panel in each studio with home run to CCUs located in Master/QC. Total of 8 fiber camera runs (4 from each of 2 studio floor) to Master/QC.
4. Camera remote controls (Studio 1 CCU’s 1 / Studio 2 CCU’s =4,5,6) located in Master/QC. Total of 8 fiber camera runs (4 from each of 2 studio floor) to Master/QC.
5. Playout server and file record station in each control room, mounted in EQ rack with control interface. One media server in control room 2. If Add-On 4 is accepted, install additional server in control room 1 rack. Control room racks also contain: camera CCU remotes, Marshall WF/Vector display, AV monitoring for servers, Blackmagic Ultrastudio 4K, Xpression CG, other ancillary terminal equipment.
6. One assignable Camera CCU control in Master/QC.
7. 3 cameras (Studio 2- CCU 4,5,6), 1 camera (Studio 1- CCU 1)
8. 1 Robotic PTZ camera will be hard wired direct to router and control room 2 switcher. IP control. Location noted on HDFloorlayout.pdf. Add-On PTZ cameras (2) TBD.
9. Each studio to have an I/O panel. 1 HDSDI input to router and 1 HDSDI input to respective control room switcher, 2 HDSDI outputs from router. Analog audio and AES audio inputs and outputs, Intercom I/O for Floor and discrete Talent IFB, CATV.
10. Provide audio solution for audio console and systems in each control room. Studio audio I/O panels use digital over Cat 5 delivery to consoles (i.e. Mini Stagebox, Yamaha R series I/O). Each studio to have audio I/O panel for all console mic input channels, aux input channels, stereo program out, aux outs.
11. Use owner supplied powered audio monitor/speakers for monitoring in each control room.
12. Master time clock for system, ESE188 or equivalent.
13. Next to the rack an iMac utility computer (provided by owner) on each control room console for Blackmagic 4K.
14. Ross Carbonite Black 1 ME (Control Rm. 1) and Ross Carbonite Black 2 2ME (Control Rm. 2) locate frames in Master Control.
15. Character Generator mainframes located in each control room. Provide remote USB ports, keyboard, mouse, monitor display for each at console operator location.
16. HDSDI I/O cables to/from Edit Suite 146 to Router. (analog audio cable in place)
17. HDSDI I/O cables to/from Rowan Television Network office (Room 160). (analog audio cable in place)
18. Provide Tally switching solution for all cameras in each studio. Use dual tally options on camera CCU’s Green Studio 1, Red Studio 2
19. Laptop (owner supplied) for IP control of devices from Master/QC rack location.
20. Using existing Philips HDTV monitor, mount Studio 1 monitor to wall above door, as currently configured in Studio 2.