

A/V Case Study



Smitty's
WESTWOOD

Westwood Village Inn
Winnipeg, Canada



Property Description: The Westwood Village Inn is a hotel, restaurant and lounge complex consisting of 25 hotel rooms, Smittys Restaurant and Smittys Lounge. The lounge area contains 2 bars, 6 pool tables, outdoor patio and a separate VIP/Games room. The lounge has a capacity of 480.



Challenge:

Primarily a sports bar venue, the owners wanted to ensure the best viewing and listening experience for their customers. The installed system needed the ability to run 5 or 6 different NHL or NFL games concurrently as well as special events in the VIP area or UFC events in only half the lounge. The system interface also had to be easily controlled by the bar staff.



Design:

With the above parameters in mind, CCR Technology Group engineers designed a cutting-edge A/V system that would enable full 1080p video over all screens. Complete audio control of 5 specific zones throughout the lounge and fully automated channel selection of 9 cable receivers all controlled by an iPad tablet.

The first challenge was the video matrix setup to control the 36 TV screens throughout the lounge. CCR opted for Just Add Power's HDMI over IP setup. This system essentially converts a 1080p HDMI signal into TCP/IP. The system consists of 9 HDMI transmitters and 36 receivers which are connected through a 48-port layer 2 managed switch. The switch acts as the matrix assigning each input to the selected output receiver. All cable runs to the TV screens are standard CAT5e cable.



Audio signal processing and routing is handled by a Symetrix Zone Mix 760 DSP. The Zone Mix 760 is a 12 x 6 matrix with full DSP functionality. 8 cable receivers and one wireless microphone are connected to the inputs. The outputs are zoned for the 5 lounge zones and a restaurant / common area zone. Lounge music and common area music are provided through the Stingray channels on the cable receiver. This gives the owner a huge music library over many genres at a fraction of the cost of a dedicated music player.



Audio and Video control is provided by the Epicenter A/V control system. This system provides a comprehensive interface between the cable box inputs, the video matrix and the audio matrix allowing the user to select any cable channel to play on any screen and any audio signal to play in any audio zone.

All functions are controlled on an iPad tablet using a property map showing all TV screens and speaker zones. The operator can select a TV screen and change the channel or just select a TV that is already playing the channel desired and drag it to the new TV. Audio functions work the same with the drag and drop function. Staff members can literally walk around the bar and setup all the screens with the Wi-Fi connected iPad.



Equipment:

- 2 - 70" Sharp Aquos LED TV's
- 6 - 65" Panasonic Professional Plasma TV's
- 28 - 50" Panasonic Professional Plasma TV's
- 9 - Just Add Power HDMI Transmitters
- 36 -Just Add Power HDMI Receivers
- 1 - Dell Power Connect 48 port Managed Switch
- 1 -Global Cache GC-100-12 TCP/IP IR converter
- 1 - Symetrix Zone Mix 760
- 14 - JBL Control 28 Loudspeakers
- 7 - Behringer EPQ304 power amps

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