

Restaurant Install: Buffalo Wings and Rings

Putting patrons in control and keeping it simple are key for a state-of-the-art sports bar. But when is anything simple?



Photo: Jason Boyer

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By Dan Daley

When the Buffalo Wings & Rings (BWR) chain decided to put their newest restaurant in the shadow of Indianapolis' Lucas Oil Stadium, the company knew the place had to meet the expectations of hungry, sports-crazy Colts fans. It also had to withstand what would certainly be more than a few wild nights. BW&R achieved both goals through carefully chosen AV systems and some level-headed thinking.

Systems integrator AVI eConsulting of Orlando, Fla., was tasked with giving each of the restaurant's 17 booths its own 19-inch Samsung LCD video screen, plus 38 other displays of various sizes throughout the 6,200-square-foot facility, so that every seat gets a great view of multiple screens. That part seemed easy enough. But when the restaurant's mandate expanded to include individual control by the booths' patrons of the DirecTV satellite content on each screen, things could have become complicated.

Wire Runs

Cabling the video presented its own challenges. The installation used over 6,000 feet of Structured Cable Products (SPC) RG6 coaxial cable, as well as Cat-5 wire for data and telephone communications, including a Mitel four-line phone and point-of-sale system.

The video security system uses SPC RG59 cabling running among the 13 Hunt HTC 76N29 IR cameras covering the restaurant, bar area, and office, connected to an EverFocus EDR 1603 DVR.

But the biggest concern was getting the signal from the DirecTV satellite dish atop the nine-story building to the restaurant, which is located below a ground-level building parking lot.

"It was really closer to nine and three-quarters stories away, since the disk was mounted on top of the elevator housing on the roof," says AVI eConsulting's Barber. "We couldn't do that over RG6; we needed RG11, which was like running garden hose nine floors down to the restaurant."

But there was a chase waiting for it in the form of low-voltage conduit already in place along a support column that ran the length of the building. AVI eConsulting added SPC indoor/outdoor-rated RG11 cable, boosted by a Spaun WBA-425F DirecTV Four-Way Wide Band Amplifier.

The cabling challenges didn't end on the inside, either. Under the parking lot, the restaurant had concrete support struts 3 to 4 feet above its dropped ceiling. That was addressed by suspending cable conduit from eye hooks drilled into the concrete using J-hooks and caddy straps. The same concrete cocoon also affected video display mounting.



Photo: Jason Boyer
[Larger image](#)

Barber chose Atdec Telehook TH-3070-CTB and Telehook TH-3070-CTB-B2B mounts, which he says are a good solution for single- and double-pole-mount situations. Cars rumbling above would create vibration, so at each joint Barber used four RedHead fasteners, which have a flange that expands, molly bolt-style, into the concrete.

However, the parking lot also has planed ramps between levels and that meant that the ceilings changed height in certain places. Barber added washers behind each mount in order to offset the slight ceiling angles.



EQUIPMENT LIST

VIDEO

Samsung (www.samsung.com)
PN58B530 58-inch plasma TV
PN50C450 50-inch plasma TV
33 PN42B450 42-inch plasma TVs
3 LN26B350 26-inch LCD TVs
17 LN19B360 19-inch LCD TVs

DirecTV (www.directv.com)
HD 5 LNB satellite dish
10 H22-200 HD satellite receivers

EverFocus (www.everfocus.com)
EDR 1603 16-channel DVR

JVL Corp. (www.jvl.ca)

JVL Vortex countertop touchscreen game system

Universal Remote Control (www.universalremote.com)

MX-950 remote control

2 MRF-350 remote base stations

SIGNAL MANAGEMENT

Contemporary Research (www.crwww.com)

10 QMOD-HD HDTV modulators

Behringer (www.behringer.com)

Behringer Shark DSP110 multifunction signal processor



Behringer

Pico Macom (www.picomacom.com)

Pico Macom CA-30RK1000 headend launch 30-dB amp

R.L. Drake (www.rldrake.com)

Drake AC1686 active combiner

Spaun USA (www.spaunshop.com)

WBA-425F DirecTV four-way wide band amplifier

INFRASTRUCTURE

Atdec (www.atdec.com)

Various Telehook TH-3070-CTB, TH-3070-CTB-B2B ceiling mounts

Premier Mounts (www.premiermounts.com)

3 Premier AM2 LCD arm mounts

SnapAV (www.snapav.com)

3 Strong SM-F-L large fixed mounts

6 Strong SM-CS-ART2-L contractor series universal dual-arm articulating mounts

17 Strong SM-CS-ART1-M Contractor Series universal single-arm articulating mounts
4 Episode PR-11-LIGHT 11-outlet lighted power racks (2160 joules, 58-db EMI/RFI, 15A

GE Security (www.gesecurity.com)

NetworX NX-6 security system