



Cornell University Athletics Tackles Live Sports Broadcasts Sans Stadium Cabling with MuxLab's 6G-SDI Extender over UTP Success Story



"We found MuxLab's 6G-SDI Extender over UTP, which is a total game changer," says John Lukach, Director of Multimedia, Production and Web Communications at Cornell University Athletics.

Cornell University's ambitious football stadium at Schoellkopf Field was built atop a teardown of the west side stands, which alleviated all pre-run, in-conduit cabling. While rewiring is fully planned and underway, the Athletic Communications department found itself trying to accommodate camera and press box cabling for the games already scheduled. Combined with the fact that most if not all of Cornell University's many sporting events are broadcast to the wildly popular, subscription-based Ivy League Network throughout the seasons, time was of the essence.

"We had to devise a way to use camera drops that weren't there after our stadium underwent some improvements, which caused the older cable drops to be taken out," says John Lukach, Director of Multimedia, Production and Web Communications at Cornell University Athletics. "We found MuxLab's 6G-SDI Extender over UTP, which is a total game changer."

Before MuxLab entered the picture, Lukach was looking at an eight cable run (up to 75 feet each in distance) for each Big Red football game, dropping

from the press box's video board and control room three stories high to the four cameras on the field to capture all the action. With MuxLab's 6G-SDI Extender over UTP (500733), he was able to eliminate the four-in/four-out cable runs and feed the press box, the various cameras and the NewTek Tricaster with just two cables total. The MuxLab Extender streamlines all the cabling. It's unique in that it allows 4K SDI-based signal extension in various ways using UTP cable. It can send one 6G SDI, two 3G-SDI or four HD-SDI feeds at a time. Plus, no power is needed in the field because the transmitter is powered by the receiver.

"We were able to transmit four SDI feeds in high definition over just one cable with an exceptional level of visual quality. The entire system based on the MuxLab Extender gives us more capabilities on the field. We're still running cables for every game, but our field mobility is better. We can go farther without having to kick a camera into SD because of resolution issues. We can stay in full HD for longer reaches. Plus the entire set-up is much easier. "It works flawlessly for our outdoor football games and our indoor basketball games, which use a very similar set up," adds Lukach.

MuxLab's 6G-SDI Extender over UTP delivers HD video on all streams with no downgrade of resolution or quality. It can send HD or 4K@30Hz up to 330 feet supporting most SMPTE modes and all 6G channel configurations. The Extender automatically recognizes and configures the SDI links and activates long-reach mode up to 500 feet for 3G-SDI. It supports Ethernet connectivity and comes in a rugged, lightweight enclosure for field use.

"Users can also benefit from the Ethernet return channel for easy AV monitoring, tally light, talk-back

and camera control unit (CCU)," added Joe Teixeira, MuxLab's Director of Product Development. "This is a perfect, real-world example of how this solution supports live broadcast needs."

While Lukach is looking into fiber optic runs for the future, the MuxLab Extender is ideal for the foreseeable future.

"Best of all, it makes the viewers happy with better quality throughout the entire production," adds Lukach.



A "Hail Mary" Becomes a "Slam Dunk" with MuxLab's 6G-SDI Extender over UTP



About MuxLab: MuxLab is a leading designer of value-added connectivity solutions for the pro AV and broadcast markets. Since 1984, MuxLab has supported its main mission to provide customers with innovative, dependable and industry leading designs that are engineered in Canada. A forerunner of the AV over IP evolution, MuxLab continues to deliver comprehensive, game changing IP-enabled systems for both commercial and residential installations of all shapes and sizes.