

APPLICATION NOTE

Speed, Simplicity and Reliability: Wireless Camera use in ENG, SNG and Bonded Cell Applications

Challenge:

Electronic News Gathering (ENG) operators face a multitude of problems in the field. Whether reporting a routine or breaking news story, setting up a shot for relay back to the studio has many challenges. After deploying the mast for a microwave shot, aligning the satellite dish, or booting up the bonded cellular system, the operator has little time left to capture the news as it happens.

In many applications, the story is not unfolding next to the truck, which requires the operator to be on the move while recording the event. Access to the truck may be restricted and cable runs prohibited. He or she then has to return to the truck to feed the shot back to the studio.

Solution:

This can all be avoided with the addition of a wireless camera transmitter and receiver like the microLite Triple Play rack-mount receiver and transmitter. Adding one to an ENG/SNG/OB/Bonded Cell system is a fast and straightforward process. Simply install the receiver into a 19-inch rack within the truck and mount two antennas onto the roof rails. Next, patch the HD-SDI cable to the vehicle's video



TESTIMONIALS

"The microLite is the best ENG truck accessory there is."

"Setup time is so short and the reach is incredible; I can walk many NY blocks without a problem."

"In the past, I have spent six hours running cables in preparation for a court case ruling. With the microLite, I was setup in minutes."

switcher and connect the ASI output to the backhaul system to reduce artifacts from re-encoding the video signal. Finally, connect the microLite transmitter between the camera and the battery, and connect the HD-SDI cable from the camera to the transmitter.

All the camera operator needs to do to operate the system is dial into the microLite receiver on the video router within the truck, grab the camera and attach the battery. Within minutes of hitting the scene, they can be off capturing the story.



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Conclusion:

With the addition of a wireless camera system to an ENG vehicle, a camera operator's time is focused on the story rather than setup and workflow. Stories are back to the studio faster, footage is higher quality, and costs are reduced by simplifying the workflow.

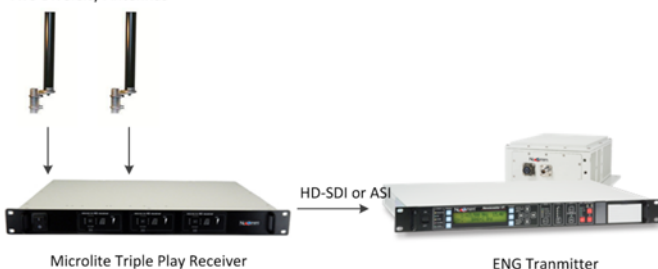
Cables limit the range and flexibility of camera placement, which are critical in ENG situations. The microLite system routinely covers areas greater than one-mile line-of-sight (LOS) range. In non-line-of-sight (NLOS) applications, the microLite excels. Obtaining a signal through various floors of cement buildings, convention centers and sports arenas does not present a challenge with the dual-diversity COFDM maximal-ratio combining technology, making microLite the ideal solution.

Cabling between the camera and truck, bonded cellular backpack or satellite flyaway can also be a safety concern for both crew and civilians. With microLite, this is no longer an issue. Not needing to deal with cables or fiber also dramatically cuts down setup time. In the fiber and coax world, a news shoot can easily take hours of prep work. With microLite, a similar shoot can often start in just minutes. An intuitive local user interface further enhances setup and operation speed.

Product Details:

To simplify operator usage, 12 easily selected presets make it a no-brainer to change channels and other operating parameters on the fly. For advanced users a Windows-based graphical user interface

Two Diversity Antennas



simplifies preset programming.

The microLite Transmitter is available in the 2-GHz and 6.5-/7.0-GHz licensed bands, as well as the 5.8-GHz unlicensed bands. It is available in a small form factor, great for small-format cameras and also in Anton/Bauer and V-lock mounting for larger camera styles.

The Triple Play Receiver is microLite's latest evolution. This receiver configuration is perfect for an ENG/OB/SNG truck. The transmitter-agnostic receiver houses up to three receivers within a single rack-mount unit, allowing for simultaneous reception from up to three wireless camera transmitters. It also supports both MPEG-2 and MPEG-4 transmitters. Housed in a single 1RU chassis, the Triple Play Receiver reduces the equipment footprint for broadcasters and ENG crews and, because it works with multiple transmitters from various vendors, supports applications with mixed or legacy equipment.

Renowned for its robust signal capabilities and ease of operation, the complete line of microLite products are designed to meet any ENG application. For more information on how to upgrade your fleet with the latest in wireless technology or outfit a new vehicle, visit www.imt-broadcast.com.

