

Wireless portable cameras enable dynamic content generation. Such cameras are commonly demonstrated at the NABShow, the premier convention for the broadcast and content generation industries. For the proposed operation, a wireless camera generating 185 Mbps “8K” ultra-high definition (UHD) video transmits in the 41 GHz band using single-carrier 32-level asymmetric phase shift keying (32 APSK) with rate $\frac{1}{2}$ convolutional coding and (204,188) Reed-Solomon coding. The camera-mounted transmitting antenna is omnidirectional with 3 dBi gain. The fixed receive antenna is a horn with 12 dBi gain. Transmission distance between the two antennas is not greater than 100 meters. All transmissions will be indoors within the Las Vegas Convention Center.