

**MuxLab**

# VideoEase™

## Success Stories

### Hotel Streamlines CATV Cabling via UTP

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Almost every hotel, motel or inn offers some form of guestroom TV entertainment service for its clientele. From the cabling standpoint, coaxial cable has always been the traditional choice in transmitting these services to each room. That is, until now.

Recently, Roedel Partners, a real estate developer in conjunction with Guestroom Entertainment Services recently completed the 111-room Hilton Garden Inn in Fishkill, NY with in-room TV services using Category 5 unshielded twisted pair (UTP) cable. This application called for distribution of various broadband/TV services including: off-air programming, pay-per-view, standard, public and premium network channels, games and high-speed Internet.

The essential link to allowing Cat 5 cable to be used was MuxLab's CATV Balun (500006). Used in pairs, the CATV Balun converts the RG6 coax to Cat 5 UTP in a point-to-point connection between the hotel's CATV/RF splitters and the TV in each guestroom.

The application is relatively simple. One balun is connected to a port on the CATV/RF splitter and another balun is connected to the set-top TV converter in each room. By using pre-installed Cat 5 UTP, tremendous

savings in time and money are achieved versus installing additional coaxial cable throughout the hotel.

The hotel was pre-wired with Cat 5 twisted pair and no coaxial cable installed. Consequently, when Roedel Partners were looking for a solution, they found that service providers were scared away when they had to come up with a proposal for guestroom TV services using twisted pair instead of coax. Guestroom Entertainment Corp (Santa Ana, CA) took up the challenge and installed a complete Cat 5 CATV cabling system using MuxLab's CATV Balun.

The hotel is a 4-story building with cable runs up to 125 feet. Cabling hubs on each floor are connected to a central equipment room where the RF video headend equipment is located. The cabling hubs are comprised of RF splitters and tilt amplifiers that provide a strong, clean RF signal to each guestroom. In some cases, in order to maximize distance performance, some higher channel frequencies were re-processed to a lower carrier frequency.

In summary, the MuxLab CATV Balun helped Roedel Partners resolve a challenging technical problem and keep their



customers happy.

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