GLS LIGHTING AND CONTROLS
SPOTLIGHT

ETC Lighting Controls at U.S. Air Force Academy's New Multi-Domain Laboratory

The U.S. Air Force Academy in Colorado Springs, CO recently opened the school's new multi-domain laboratory. Housed in Fairchild Hall, the lab is a 9.5-million-dollar facility consisting of two modular suites, with each suite housing a fully integrated Joint All-Domain Operations Center, Flight Bay, and remotely piloted aircraft control room. According to the Academy, the lab will expand the capabilities and capacity of the Air Force, education and simulating operations by "integrating 24 flight simulators that can replicate any air, surface or sub-surface manned weapon system, 12 remotely piloted aircraft simulators, 12 intelligence–surveillance–reconnaissance–electronic–warfare simulators, and over 40 operations command center work stations".

This is the first lab of its type at any U.S. Service academy, for which GLS provided architectural controls by Electrical Theatre Controls (ETC). The system includes a Paradigm Architectural Processor, two Echo FeedThrough relay panels with a total of 72 relays, 0-10 dimming, DMX controlled LED color-changing wall graze lights, and emergency lighting control. Along with 24 Paradigm Inspire button stations, 4 Paradigm 7" wall-mounted touchscreens provide control for the lighting using a number of presets, LED color and intensity controls, zone controls, and a button to fog and un-fog windows, depending on security requirements. Simulation admins in the MDL control room use the Paradigm-ACP web interface for master control of both suites.