



Select Sound & Communications Ltd.

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Select Sound & Communications Ltd is very proud to present the 1st **Jeron Spectrum 520 IP** installation in British Columbia. This is a complementary option to the already popular and user friendly **Jeron 520** School Intercommunication System. It utilizes Structured Cabling System already built into most facilities as communication means between system components.

The Site



Pacific Academy is an independent, co-ed, Christian school for students in Junior Kindergarten (ages 3 and 4) through Grade 12. The school is operated by the Pacific Pentecostal Education and Communication Society, an independent non-profit society. Founded in 1985 by a group of Christian pastors and laymen, the school opened in Coquitlam with an enrollment of 200 students. In January 1991, Pacific Academy moved to new facilities on 40 acres in Surrey, BC. In September 2004, Pacific Academy High School became an International Baccalaureate World School. Present school wide enrollment is approximately 1450 students.

The campus includes buildings for each of the four divisions, Primary, Intermediate, Middle and High School. In addition, the Creative Arts Building provides specialist areas for Art, Home Economics and Music. The newest addition to the campus is the Middle School gym, which was completed in 2008.

Originally, 4 separate intercom and overhead paging systems had been installed in each school's data closet. These PA Systems all worked independently which created problems trying to synchronize master clocks. Safety around fire drills and emergency evacuations procedures were always a concern.

The Challenge

During early discussions it was determined that what was needed was a system that was able to run 4 independent schools. Paging needed to be done by dedicated consoles at each school office where Master Bell Control and music distribution could be controlled. The ability to page individual schools from any phone in the campus was also a necessity. Additionally there were common areas that were used by all schools that needed to receive paging from multiple areas. By strategically deploying Jeron's Spectrum 520 IP system, we were able to provide a solution that solved these problems and delivered some value added features.

System Architecture

Jeron 520 IP School Intercom System consists of a Central Controller that houses a CPU and peripheral Station Hubs for connecting to classroom speakers; call in switches and administrative consoles. Central controller and station hubs communicate over LANs so they can be installed anywhere at a site in separate buildings as long as they share the same computer network.

Applications

Jeron 520 IP School Intercom System fits perfectly into multi-building operations such as university campus, hospitals / care homes combination and large education facilities that run primary, intermediate and high school classes within the same site.

Hardware Configuration

In this installation, the Central Control Hub was installed in the Main Data Closet, physically located in the center of the campus. Digital Station Hubs were installed at each school's Data Closet where all PA System field wirings ran to. All hubs communicate to each other over the school's existing Local Area Network.

Additional Benefits

Installation cost was dramatically reduced based on the fact that no additional wirings between buildings need to be run. PA System time of all schools are now synchronized, bell schedules can be easily turned ON, OFF at each school or changed as required at one location, paging announcement can be distributed to any part of the building with the touch of one preprogrammed function key on any Jeron administrative console or any office telephone.

Reference

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