

Case Study

Nanjing Olympic Sports Center



Project Requirements included Scalability, High Reliability, Precise Camera Control and Robust Architecture – Fiber Transmission



Solution: Infinova PTZ dome cameras, IP enabled matrix switchers and fiber optics

Infinova's Hybrid Surveillance System Watches over the Nanjing Olympic Sports Center

Ethernet, analog video and fiber have been combined to create a best-in-class hybrid surveillance solution for the 222-acre Nanjing Olympic Sports Center, one of China's largest. The sports complex consists of several best-in-class public sports venues including a large multipurpose stadium with a capacity of 80,000, an indoor gymnasium with a capacity of 15,000, an aqua-center with four pools and a tennis center with 20 professional courts, plus a technical operations center and related facilities.

Given the diverse size and location of the complex, system requirements demanded that the solution be flexible, highly reliable and provide excellent quality video. To achieve these goals, the integrators opted for analog video from Infinova's PTZ Dome cameras to be directly viewed and controlled through matrix switchers. By using direct control, the integrators could guarantee video quality and real-time PTZ control of the cameras with no noticeable delay between the time operators move their joystick and the time the camera responds. The system also features fixed cameras and fiber optic transceivers.

This installation shows how Infinova is able to help integrators bring together multiple technologies to ensure customer project requirements are met affordably. Even though the Center chose an analog solution, it did not have to give up the advantages of IP technology because the Infinova matrix switchers and keyboards use hybrid technology, being IP-enabled through their Ethernet ports.

Infinova[®]
The Integrator's Manufacturer

By controlling the distributed network of matrix switchers over Ethernet (IP), system reliability was significantly enhanced. There is no “master” matrix switch that can become a single point of failure for operator control. Plus, the video matrix switchers incorporate advanced video loss detection on each input signal and issue an alarm if the camera fails or the cable is cut.

Multiple cameras are installed throughout the complex, controlled by operator keyboards or video management software. The keyboards can communicate with the matrix switchers either over the network or via a direct RS-232 connection, providing an additional level of flexibility.



Since each sports center is a long distance from the central control room, the designers selected Infinova fiber optic transceivers to connect all the matrix switchers together. The fiber provides crystal clear video while the distributed robustness of Ethernet yields problem free control. An additional advantage is that fiber optics provides excellent protection against lightening, common in the area. From a financial point of view, using a single fiber for multiple cameras resulted in a significant reduction of installation costs versus traditional coax cable.

Infinova

By helping channel partners provide their customers with complete, affordable, best-in-class, large and small video surveillance solutions, Infinova helps integrators generate more business more profitably. Leveraging a manufacturing process certified to ISO 9001:2000 standards and over 250 engineers with a list of video industry firsts, Infinova channel partners provide their end-users with industry-acknowledged product reliability and technical leadership.

So that Infinova channel partners can create complete solutions, Infinova provides IP surveillance cameras and components, CCTV analog cameras, DVRs and components, camera accessories, monitors, power supplies and fiber optics communications devices. Infinova also has the technical ability and manufacturing flexibility to let integrators propose customized solutions. In addition, Infinova will partner with other manufacturers making other surveillance equipment and software to help its channel partners create turnkey solutions. Contrary to most other companies, Infinova will back-up their partners’ products as well as its own to assure both the integrator and its customers that one call – to Infinova only – takes care of everything.

Infinova works diligently to assure its channel partners can provide cost-conscious solutions. With Infinova’s hybrid systems, channel partners can propose systems that protect a customer’s investment in its already-installed analog surveillance system but that also put them on a dynamic migration pathway to IP systems.

Infinova is lauded for its exceptional maintenance programs. A major highlight is the company’s 24-hour advanced replacement policy in which a substitute product is shipped immediately upon notice of a problem.

With such customer focus, Infinova is often referred to as “the integrators’ manufacturer.”

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