

Advanced Video System Keeps Singapore Air Travellers Safe

Changi Airport Video Surveillance System Keeps Eye on 358,000-Square Meter Terminal

Changi International Airport in Singapore, one of the busiest aviation hubs in Asia, served more than 36 million passengers in 2007 and ranked among the top 20 airports in the world in terms of passenger traffic.

Considering the volume of passengers, the airport's strategic location and the ever-present threat of international terrorism, security at Changi is a top priority, so when Changi security executives decided in 2005 to replace an aging analog CCTV system at Terminal 2 with digital video surveillance technology, they insisted on a rigorous

evaluation of the technology options available to them.

After a thorough and extensive equipment demonstration as well as a system performance evaluation, a solution from Cieffe, a Milan-based company acquired by March Networks® in March, won hands-down.

"We were successful because of the quality of the video, the scalability of the system and the performance of the video analytics," said Jimmy Leow, Business Development and Operations Director of TJ Systems, the Singapore-based systems integrator proposing the Cieffe solution.

The system was also rated highly for its reliability and adaptability, added Leow. "It's easy, for example, to add IP cameras to the system. They just connect directly to the fiber network, so the customer is able to take advantage of higher resolution video capture without making any changes."

Completed in 2007, the system consists of more than 400 analog cameras linked to a terminal-wide fiber network by single channel NETTUNO encoders. Video is recorded by Cieffe Spectiva NVRs in a central location, stored on RAID units and displayed on 50 monitors in a security operations center.

Cameras are located throughout the 358,000-square meter terminal, including arrival and departure halls, transits, car parks and baggage areas.

Live video monitoring in the central monitoring facility is managed by Cieffe's

SiteManager software and decode stations, which also provide security personnel with a map of the terminal showing the location of every camera.

Cieffe's powerful video analytics software alerts security staff to unattended objects, intruders in no-go zones and other potential threats.

Contributing to the reliability of the system, several Spectiva NVRs are configured to take over recording automatically in the event of an equipment failure.

"The customer is very pleased with the performance and reliability of the Cieffe system," said Leow. "It allows monitoring staff to view live video from every corner of the terminal and quickly dispatch security staff to investigate any suspicious activity."

Cieffe video surveillance systems have also been deployed at several other airports in Europe and the Middle East. ✨

Changi Airport

Changi Airport (www.changiairport.com) in Singapore is one of the busiest aviation hubs in Southeast Asia. The airport is served by 79 airlines with more than 4,432 flights to 189 cities, boasts handling capacity for 70 million passengers per year and operates four terminals with a combined terminal floor area of more than one million square metres.

TJ Systems

TJ Systems (S) Pte Ltd. (www.tj.com.sg), established in 1996, is a leading security systems integrator in Southeast Asia. Based in Singapore, TJ Systems designs, supplies, installs, tests and commissions integrated security systems for commercial, residential and critical infrastructure facilities in Singapore, Malaysia, Vietnam, Thailand and other countries in the Asia Pacific.



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Business Development and
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