



Agent Vi Enhances Security & Safety at Mt. QingCheng UNESCO World Cultural Heritage Site

Product:

Vi-System – Real-Time Video Analytics

Application:

Security & Perimeter Protection, Counting

Customer: Mt. QingCheng National Park

Location: Sichuan, China

Vertical Market: Religious / Tourism Site

Agent Vi Partners:

Milestone XProtect® – Video Management System (VMS)

LCC NetCom – Certified Systems Integrator

Challenge

Mount QingCheng National Park in Sichuan, China, is listed as a UNESCO World Cultural Heritage Site. It is home to the Dujiangyan irrigation system which has functioned since the 2nd century BCE, and to the famous Anlan Bridge which crosses the Minjiang River. Furthermore, Mt. QingCheng is one of the ancient cradles of Taoism in China, with multiple Taoist and Buddhist temples and sites along the over 80km of lush hiking paths that wind up to its 36 peaks.

With such a large site that attracts some ten million guests annually, it is imperative to keep track of all visitors entering the park, and ensure their security and safety. Moreover, the park's management sought to monitor the entry of visitors to the park through prohibited forest trails, thereby evading the entrance fees required to maintain the park. The management of the national park also required a solution that allowed them to measure the traffic of people on Anlan Bridge at any one time, to prevent overloading the bridge which could create unsafe conditions. A real-time video analytics solution was sought to respond to these concerns.

Solution

Mt. QingCheng National Park deployed Vi-System – Agent Vi's real-time detection and alert software – to monitor the park's expansive grounds and oversee visitor traffic. With Vi-System, the security staff of the national park is alerted immediately to unauthorized entry of visitors and to traffic over specific thresholds, allowing instant responses and deployment of staff as necessary.

Vi-System has been integrated into Mt. QingCheng's surveillance infrastructure, which is comprised of over 300 IP cameras and Milestone XProtect® video management solution. Eighteen cameras located at key points within the site, including both fixed and PTZ cameras, have been empowered with the "Vi-Enterprise" suite of analytics rules, which among others, includes the following real-time rules:

- **Person moving in an area** and **Person crossing a line** to detect and alert to unauthorized visitors entering the park via unmanned forest trails;
- **Count People** to detect and tally the number of people entering and exiting the Anlan bridge (bi-directional).

“Vi-System has improved our operational efficiency and cut costs. We now have a higher level of surveillance and require fewer security staff. Rather than staff sitting and observing multiple video streams, we receive automatic alerts when there are unauthorized entries into the park. Similarly, it is much more efficient to receive counting statistics automatically than relying on security staff with manual counters.”

— **Executive Director**

Mt. QingCheng

Milestone XProtect software allows Agent Vi to retrieve live video streams from the IP cameras and to perform analytics. When Vi-System detects an event in line with the user-defined rules, an alert is displayed in Vi-Monitor, Agent Vi's viewing application.

Additionally, the implementation of Vi-System's people counting application alerts whenever the total number of visitors on the Anlan Bridge exceeds the maximum number allowed. This is achieved by counting the people entering and leaving the bridge at both ends, and automatically calculating the number of people that are present on the bridge at every point in time. The counting application is also utilized to issue statistical reports using Vi-Monitor.

Result

The introduction of Vi-System significantly increases the level of security, safety and operational efficiency at the vast grounds of Mt. QingCheng National Park. Formerly, security guards at the command center constantly observed the multiple screens showing live video stream, to catch access violations. Vi-System eliminates the need for manual surveillance, providing automated alerts when intruders are detected in prohibited areas. Once an alert is received, security guards are dispatched to deal with these unauthorized entries.

Previously, there was a need to post two security guards at each end of the bridge to monitor the incoming / outgoing traffic and ensure that the head count did not exceed the recommended safety limit. With Vi-System, the counting is undertaken automatically, freeing up security staff to deal with other security and safety issues.

Aichangyong, Executive Director of Mt. QingCheng, commented that "Vi-System has improved our operational efficiency and cut costs. We now have a higher level of surveillance and require fewer security staff. Rather than staff sitting and observing multiple video streams, we receive automatic alerts when there are unauthorized entries into the park. Similarly, it is much more efficient to receive counting statistics automatically than relying on security staff with manual counters."

Daphne Kho from LCC NetCom – a Certified Systems Integrator within Agent Vi's Channel Partner Program – commented that "Mt. QingCheng had tried video analytics products from other vendors, but they were not effective. Most people counting solutions are only suitable for relatively sterile, indoor environments, whereas Agent Vi's solution provides high counting accuracy even in this challenging outdoor environment. The customer selected Vi-System as it offers a more stable and mature solution that has a greater ability to integrate with an existing surveillance system."

Ariel Frischoff, VP Sales EMEA & APAC at Agent Vi said "Agent Vi successfully manages multiple applications simultaneously. Through the deployment of Vi-System, the customer was empowered with security applications as well as counting information to ensure safety. Furthermore, the choice of Vi-System, in collaboration with Milestone, enabled the customer to employ his existing camera infrastructure, maintaining a low cost of ownership for the surveillance system."

About Agent Vi

Agent Video Intelligence (Agent Vi) is a leading provider of open architecture, video analytics software deployed in a variety of security, safety and business intelligence applications worldwide. The comprehensive video analytics solutions offered by Agent Vi extend from real-time video analysis and alerts to forensic search and post-event analysis, and are fully integrated with a range of third party edge devices and video management systems.

Integrating Agent Vi's advanced video analytics capabilities into existing or new surveillance networks enables users to benefit from the true potential of their surveillance networks, transforming them into intelligent tools that respond to the practical challenges of the 21st century.

About Vi-System

Vi-System is Agent Vi's real-time video analytics software, which transforms standard surveillance networks into intelligent and effective detection and alert systems.

By performing real-time analysis of the video stream, Vi-System identifies and generates alerts for a variety of user-defined events relating to people, vehicles and objects. Used for applications such as security, safety and business intelligence, Vi-System offers effective monitoring of multiple video sources in parallel, enabling automatic detections, alerts and responses to events, as they emerge.

Based on Agent Vi's open architecture, pure-software approach, Vi-System can be easily integrated with a wide range of edge devices and video management systems, in both new and existing surveillance networks.

Vi-System boasts the combined benefits of superior detection performance, high scalability, installation simplicity and ease of use, making Vi-System the most advanced, comprehensive and cost effective real-time video analytics solution on the market.

