



Overview

Altai has achieved outstanding success with the deployment of our state-of-the-art Super Wi-Fi™ Solution to the Cable Tunnel managed by one of the public utilities in Hong Kong. The goal was to provide uninterrupted wireless connectivity for smooth and efficient data transmission throughout an 825-meter tunnel.

Altai's advanced solution was deployed to provide seamless and reliable network coverage for tunnel surveillance and enable robots to perform maintenance tasks for the electric cables.

Business Challenges

Complicated environment and limited installation sites - due to the winding internal structure of the tunnel, finding an optimal location to install an access point (AP) can be quite challenging while cabling is also not preferred in this project. The curved structure of the tunnel poses difficulties for radio frequency signals to pass through its interior. As a result, more APs must be installed than what would typically be required in open areas to ensure complete network coverage throughout the tunnel.

Customer Name:

One of the public utilities in Hong Kong

Application:

Private Wireless Network

Products used:

A2, VX200, AltaiCare

Benefits:

Altai Super Wi-Fi™ provides an exceptional wireless connectivity to the cable tunnel. The solution ensured uninterrupted and seamless wireless coverage, allowing real-time surveillance of the entire area with zero downtime. This capability facilitated efficient maintenance and regular checks by the robots, enhancing the overall efficiency on the tunnel management.

Solution

Altai's professional team has proposed to adopt our high-performance APs - A2 and VX200.

- **A2**, with Superior RF and filter design in conjunction with Altai's interference mitigation algorithm, the powerful dual band access point has been deployed to achieve the seamless and reliable wireless connectivity for the patrol robots.
- **VX200**, with external omni antenna, the VX200 industrial CPE is attached to the robot to allow it to stay connected with the network powered by A2.
- Cloud **AltaiCare** AP centralized management.



A2



VX200

Benefits

The successful deployment of Altai Super Wi-Fi™ brought an exceptional wireless connectivity for the cable tunnel. The solution provided uninterrupted and seamless wireless coverage, ensuring that the entire area was under real-time surveillance with zero downtime. This capability allowed for efficient maintenance and regular checks by patrol robots at any time.



About Altai

Altai Technologies is a global leader in providing industrial-grade Wi-Fi solutions with a strong presence in over 100 countries. With our brand, Altai Super WiFi™, we specialize in designing, developing, and marketing cutting-edge Wi-Fi products and technologies specifically tailored for industrial applications.

Altai Super WiFi™ offers fully seamless, secured, and resilient wireless solutions that empower businesses to enhance productivity and operational efficiency throughout the industrial digitalization and automation journey. For over a decade, we have earned the trust of hundreds of industrial customers worldwide. Our cutting-edge wireless technologies are deployed in container ports, airports, warehouses, smart manufacturing facilities, mining, oil and gas sites, power plants, and more.

Discover the comprehensive range of Altai Super WiFi™ solutions which are meticulously designed to meet the rigorous demands of industries with mission-critical needs, please visit our official website at www.altaittechnologies.com.

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