



Anywhere

SUCCESS
STORY

Hong Kong Science Parks

4K HD Camera Solution
for Safe City

Overview

Smart city is a safe city, where everywhere can be seen clearly. Outdoor surveillance encounters challenges in physical constraints and disrupted connection points that lengthen installation time. The quest for high video streaming quality is putting pressure on reliable wireless transmission.

Hong Kong Science and Technology Parks (HKSTP) is a sprawling 22-hectare waterfront ecosystem that houses more than 600 technology companies and approximately 13,000 technology talents. As a bustling technology cluster in Hong Kong, the Park is devoted to act as the catalyzer in transforming the metropolitan into a world-leading smart city.

With Anywhere Networks' Intelligent Connectivity Anywhere® technology, HKSTP achieves a rapid deployment of the ideal safe city surveillance system. Network cameras are installed at the exact locations required without the expense and limitations of cabling or wires. Anywhere Networks' Network Node, which provides fiber-like performance, extends connectivity to exactly where video surveillance is needed.

Customer

Hong Kong Science and
Technology Parks Corporation



Deployment Location

Hong Kong

Application

Safe City—wireless mesh video
surveillance

Product Deployed

Anywhere Network Node
X20 Series

“By using Intelligent Connectivity Anywhere technology, wireless surveillance provisioning can be made easy within a short period of time without technical expertise. The 4K video quality is impressive, I just can’t differentiate the transmission quality with that using a real fiber.”

The Challenge

- 2-million-square-meter outdoor coverage areas including Phase 1 to 3 and the surrounding Tai Po district
- High interference of over 100 interfering AP and 4G antennas and microwave link around the mesh link
- No cabling between the buildings is allowed
- Need to deploy the network in a short period of time and during non-office hours to minimize disturbance to tenants

The Solution

- A 5-hop wireless mesh ring is built on the rooftops of four office buildings as backbone using X20. The mesh ring is deployed above the two main streets and covers most of the outdoor areas in HKSTP
- As a pilot stage, four cameras (4K resolution) are connected to the network, easily expandable in the future when needed
- The mesh ring network supports up to 2 x 867 Mbps data rate (in 2 paths) back to the surveillance center
- Mesh link redundancy and auto-recovery features are incorporated for highly resilient network structure
- Proprietary Mesh ID and Mesh key authentication supports easy setup yet highly secured connection

The Benefit

- 4K-resolution video enough for distant surveillance 1 km away
- Simple radio planning, quick setup in days
- Robust in high interference environments



Traffic at a critical roundabout can be closely monitored.

Anywhere Networks

Anywhere Networks is a leading Wireless Mesh Technology company offering scalable, high-capacity and secure network solutions and services for Smart and Safer City Applications with a focus on public safety, Internet of Things (IoT) connectivity, video surveillance, transportation networks and industrial environments for provinces, governments, industrial and enterprises. **Anywhere Network Node A-NN** is our flagship product line of ultra-high performance industrial-grade wireless products, its full mesh capabilities designed for flexible and expandable deployments regardless of physical constraints. The entire network is managed by **Anywhere Network Manager A-NM**, a Provisioning and Centralised Network Management Software and Platform of all-in-one dashboard for configuring, monitoring, and managing AN network and devices.