

# Panoramic Surveillance for Smart Crowd Management at Singapore SCAPE Youth Community

Singapore

Milesight Partner

Securevision Pte Ltd

Location

Singapore

Industry Segment

Commercial

Related Products

AI TrueColor Dual-sensor 180° Panoramic Network Camera

AI Motorized Pro Bullet Plus Network Camera

AI Weather-proof Mini Bullet Network Camera

AI Vandal-proof Mini Dome Network Camera

## Background

SCAPE is a cultural and entertainment hub in Singapore, set up by the government to provide a vibrant community space for youth culture and creative communities.

Following a large-scale renovation to attract a broader young audience, SCAPE needed a next-generation CCTV system to enhance security coverage, ensure public safety, and support long-term site management.



## Challenge



### Crowd Safety Risk

High visitor density, especially during events and peak hours, posed potential crowd safety risks, requiring precise people counting and proactive crowd management.



### Regulatory Compliance

Mandatory compliance with government regulations, including NDAA certification.



### Camera Distortion

Traditional panoramic cameras introduced edge distortion, creating blind spots at critical entry points.



### Multi-Entrance Coverage

The system needed to cover multiple entrances with centralized management while ensuring reliability, scalability, and operational efficiency.

## Solution

The SCAPE system is built on two enterprise-grade NVRs managing over 200 NDAA-compliant IP cameras, delivering a robust, scalable, and centralized surveillance platform that fully meets government compliance requirements and supports future expansion.

### TrueColor 180° Panoramic Camera with FusionXpert Technology

#### Seamless Coverage FusionXpert

Industry-leading dual-sensor 180° stitched panoramic technology eliminates edge distortion and blind spots, delivering clear, detailed images across the full panorama.

#### Night Vision Clarity TrueColor

Provides high-quality night images even without any supplementary light, ensuring critical monitoring during low-light conditions.

#### Maximum Entry Coverage

180° horizontal and 58° vertical field of view perfectly cover key entrances. What used to require 2-3 traditional cameras now requires only one, reducing installation and wiring costs while simplifying operation for security team.

#### Seamless Aesthetics

Sleek and modern appearance blends seamlessly with the architectural environment, suitable for a youth-oriented venue without appearing intrusive.



### Edge AI Crowd Management with People Counting Features

#### Real-Time Monitoring

Each panoramic camera at all entrances performs Edge AI people counting. Operators can monitor in/out counts, total occupancy, and capacity in real-time.

#### Proactive Alerts

When predefined thresholds are exceeded, the system triggers automated alerts, enabling proactive crowd management and preventing overcrowding incidents.

#### Analytics & Insights

Generates detailed reports and visual heat maps to help management optimize crowd flow and improve long-term safety planning.

## Results

Enhanced confidence in site safety management, particularly during large-scale events and peak visitation periods.

The combination of NDAA compliance, dual-sensor panoramic coverage, and intelligent people counting ensured precise, reliable monitoring and operational efficiency.

This solution received positive feedback for its effectiveness in dynamic public spaces, demonstrating a successful, reliable model for crowd management and public safety.

## Product Showcase



AI TrueColor Dual-sensor 180° Panoramic Network Camera



AI Motorized Pro Bullet Plus Network Camera



AI Weather-proof Mini Bullet Network Camera



AI Weather-proof Mini Bullet Network Camera