

Video and Connectivity Use Cases on Campus

A dedicated, low-latency path for the heaviest workload on campus.

Video is the new campus workload

Body-worn and fixed cameras, police vehicle feeds, drone video, and game-day production all push uplink-heavy traffic that Wi-Fi and public cellular weren't built for. Highway 9 Mobile Cloud gives video a dedicated, low-latency path with QoS, and runs AI inferencing at the edge.

Video use cases

Use case	What it needs	How Highway 9 helps
Video surveillance	Reliable uplink for fixed and mobile cameras where cabling is costly or impractical	Private 5G/LTE coverage and capacity across parking, residence halls, and outdoor areas
Video inferencing	Detection and alerts on live video without sending every stream to the cloud	AI inferencing runs inside the Mobile Edge, close to the cameras
Police vehicle and mobile video	High-definition video transmission from campus police vehicles	Campus-wide mobility with dedicated, low-latency connectivity
Game-day and event video	Sideline cameras and event production over crowded venues	Dedicated capacity with QoS that holds up when thousands of fans are on site
Research and drone video	High-definition drone video and AI workloads with predictable latency	Private cellular with reliable quality of service (QoS) and dedicated spectrum bands

Connectivity that supports video, public safety, and game day

Use case	What it needs
Coaches comms	Low-latency, dedicated connectivity for sideline and press box communications
Access pedestals	Connected ticketing, concessions and payment points that stay online during peak traffic
E911 and FirstNet	Dependable public safety communications and emergency alert delivery across campus
Outdoor connectivity	Stadium, field, and parking lot coverage for game days, tailgates, and campus events
Neutral host networks (NHN)	Multiple carriers serve students, staff and visitors over one shared campus network
VIP connectivity	Premium coverage and capacity for suites, club areas and hospitality
Food trucks and vendors	Quick, secure connectivity for mobile payments and point-of-sale wherever they park

What powers it

- **Private mobile cloud with 5G/LTE:** virtualized 5G core, connecting to existing Wi-Fi, security and mobile carriers.
- **Edge AI:** inferencing runs inside the Mobile Edge for low-latency video analytics.
- **Cloud-based operations:** manage radios, scale capacity, and monitor traffic from a single cloud console.
- **Campus IT integration:** works with existing firewalls, Azure AD for SSO, and MDM for eSIM control; NAC secures device onboarding.
- **Dedicated spectrum bands:** keeps critical apps running smoothly.

Start your journey toward a more connected campus: highway9.com/get-a-free-consultation