



IMPLEMENTING SMART, CLOUD-BASED SURVEILLANCE ENHANCES SAFETY AT PACIFIC NORTHWEST SCHOOL DISTRICT



Qumulex, trusted provider of industry-leading cloud-based video surveillance and access control solutions, delivered an intelligent, camera-to-cloud solution that includes AI-powered video analytics to a Pacific Northwest K-12 school district across four campuses.



UNDERSTANDING THE CHALLENGE:

A Pacific Northwest School District, serving a K-12 population across four campuses - 2 elementary, 1 middle, 1 high school - faced critical limitations with its existing security infrastructure. The outdated NVR-based system was unreliable, had limited storage retention, lacked centralized access across buildings, and did not provide real-time alerts for unauthorized access or perimeter breaches. Security staff had to manually review video footage, significantly delaying incident response. Budget constraints and minimal IT staff further limited their ability to modernize.

The District needed a **unified solution** that enabled **24/7 visibility**, **smart detection alerts**, and **seamless integration** with existing systems—without disrupting ongoing school operations, modifying existing security policies, or burdening the district's IT team.



Unified Solution



24/7 Visibility



Smart Detection Alerts



Seamless Integration

THE SOLUTION

To overcome these challenges, the District deployed the Qumulex Camera-to-Cloud Video Management System (VMS), with integrated AI video analytics, partnered with iPro X Series Advanced IP Cameras. The implementation utilized a mix of new cloud-managed smart cameras and existing IP devices to maximize efficiency while controlling costs.

The districtwide rollout was strategically timed over spring break to avoid interfering with classroom learning. Zones with the highest risk—such as hallways, entrances, parking lots, and perimeter fences—were set up with intelligent detection features to increase coverage and awareness.

Key features include:

- Cloud-based storage with encrypted transmission and tiered retention
- AI-powered analytics
- Remote access via mobile and web platforms
- Smart search to find events using tags, objects, and motion criteria
- Role-based permissions for school security officers and administrators

AI IN ACTION

- **Line Crossing Alerts:** Triggered when individuals crossed boundaries around school entrances after hours
- **Loitering Detection:** Alerted staff when students gathered too long in unsupervised hallways
- **People Detection:** Sent push notifications for unauthorized entry during holidays and weekends

WHY IT WORKS

This deployment shows how Camera-to-Cloud with AI analytics delivers:

- Proactive security through intelligent automation
- Operational efficiency for lean school IT and safety teams
- Scalability to grow with district needs

The School District now serves as a model for smart school safety across the region.

“The addition of AI analytics has transformed how we keep our schools safe. We’re no longer reacting hours later—we’re alerted in real time. And the cloud platform means we can manage everything without burdening our IT team.”

— Director of School Safety

BENEFITS & RESULTS

METRIC	BEFORE	AFTER
Incident Response Time	18 minutes	<3 minutes
Video Retention	7 days (on-prem)	30+ days (cloud)
Campus Coverage	2 campuses at once	4 campuses, 24/7
Threat Detection	Manual review	Real-time AI alerts
IT Maintenance Load	High	Low

HIGHLIGHTS

- **Prevented 2 vandalism incidents** via after-hours intrusion alerts
- **Reduced daily video review time by 60%** with smart filtering
- **Enhanced emergency coordination** between principals and district security