

VPU

VIDEO PROCESSING UNIT

INTELLIGENT SURVEILLANCE. BUILT INTO YOUR COMMUNITY.

The VideoGuard VPU is a fixed, pole-mounted surveillance solution that brings AI-powered video monitoring and real-time intelligence to critical public spaces and intersections.


**SMARTER CITIES.
SAFER COMMUNITIES.**
**ONE VIDEOGUARD
PLATFORM.**
Seamless coverage.
Real-time intelligence.
Stronger communities.



AI-POWERED
ANALYTICS



REAL-TIME
ALERTS



BUILT FOR
PUBLIC SAFETY



RELIABLE
CONNECTIVITY



EASY TO DEPLOY
& MAINTAIN

OVERVIEW

The VPU (Video Processing Unit) is an all-in-one edge computing system that captures, processes and analyzes video at the source. It delivers actionable intelligence to law enforcement in real time—helping prevent crime, improve response times and enhance community safety.

IDEAL FOR



CITY PARKS & TRAILS
Monitor activity, detect incidents and keep public spaces safe.



INTERSECTIONS & TRAFFIC
Monitor traffic, detect violations and support accident response.



ILLEGAL DUMPING HOTSPOTS
Detect and document illegal dumping and environmental crimes.



PUBLIC SPACES & FACILITIES
Enhance safety at parking lots, transit stops, schools and more.

KEY FEATURES

- ✓ **AI-POWERED DETECTION**
Detects people, vehicles, loitering, wrong-way travel, weapons, fights and more.
- ✓ **REAL-TIME ALERTS**
Instant notifications to dispatch or mobile devices for faster response.
- ✓ **EDGE PROCESSING**
Analytics at the edge reduce bandwidth usage and protect privacy.
- ✓ **FLEXIBLE CAMERA OPTIONS**
Support for PTZ, multi-sensor and 360° cameras with IR illumination.
- ✓ **RELIABLE CONNECTIVITY**
4G/5G/LTE and Wi-Fi options for redundant, always-on connectivity.
- ✓ **SECURE & ENCRYPTED**
End-to-end encryption keeps your data safe and compliant.
- ✓ **RUGGED & WEATHERPROOF**
Built for 24/7 operation in any environment.
- ✓ **EASY INSTALLATION**
Pole-mounted design for quick deployment with minimal disruption.

CITY PARK



- Loitering Detection
- Crowd Detection
- After-Hours Alerts
- Panic Button Integration

INTERSECTION



- Red Light Violations
- Wrong-Way Detection
- Traffic Monitoring
- Incident Response

HOW IT WORKS



VPU SPECIFICATIONS (TYPICAL)

Enclosure Rating	IP66 / NEMA 4X	Video Inputs	4, 8, or 16+ Channels
Operating Temp.	-22°F to 140°F (-30°C to 60°C)	AI Analytics	Included (Edge)
Power Input	12V DC or PoE+	Audio	Two-Way Audio
Mounting	Pole / Wall	Dimensions	14.2" H x 12.6" W x 7.9" D (360 x 320 x 200 mm)
Connectivity	4G/5G / LTE / Wi-Fi	Weight	22 lb (10 kg)
Storage	Up to 2TB (Edge)		



**PROTECT WHAT MATTERS.
WHERE IT MATTERS.**



DETER CRIME
Visible presence deters criminal activity.



RESPOND FASTER
Real-time alerts helps solve cases and improve response.



IMPROVE OUTCOMES
Actionable intelligence helps solve cases and improve outcomes.



REDUCE COSTS
Flexible deployments reduce infrastructure and staffing costs.

LEARN MORE
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