

WIRELESS SURVEILLANCE EDGEVIS SD-Q600



RAPID DEPLOYMENT CAMERA AND WIRELESS TRANSMISSION UNITS

The SD-Q600 is a revolutionary option for rapid deployment of CCTV cameras – with ultra-efficient and cost-effective use of cellular networks.

It features unique TVI video-streaming technology for complete control over surveillance (as well as network data costs) plus onboard storage options.

Unlocking the flexibility of wireless surveillance

More and more organizations are turning to wireless as an alternative to the time-consuming and costly installation of wired surveillance cameras. Yet modern cellular networks, while ubiquitous and providing access to increasingly large bandwidths, pose a number of technological challenges for real-time surveillance. Variability in network coverage, as well as continuous fluctuations in available bandwidth, can often lead to break-ups or delays in transmission of video. In addition, the data costs associated with cellular-based video can quickly become prohibitive for day-to-day operations.

TVI, from Digital Barriers, is a revolutionary technology for efficient transmission of video over constrained or variable bandwidth networks. Unlike conventional technologies, TVI is specifically designed to address the issues associated with sending video over such networks. It also incorporates user tools and enterprise-management features for complete control over camera, footage, user access and cost. The TVI SD-Q600 range combines the power and flexibility of unique transmission technology with cameras and recording – all in an integral enclosure that is robust and simple to deploy.

Practical operational benefits

TVI SD-Q600 units offer a unique combination of ease of deployment, remote CCTV access, and complete control over operational costs. The compact units can be installed quickly onto existing street furniture or dedicated mountings. When using a cellular network or WiFi (in-built modules for both), the only wired connection required is a power supply.

The TVI system allows an operator to set bandwidth rate and picture settings (frame rates, detail levels) to a 'monitoring' mode that minimizes the cost of real-time streaming. When an incident occurs, they can quickly switch to 'eyes on' mode for greater real-time detail – or an 'interrogate' mode with remote access to onboard recorded footage. Operators also have access to an 'enhance' mode at any time, allowing them to pull back detail from a video frame e.g. facial details. Low latency camera PTZ control is also available at any time.

Product codes

SD-Q600	Integrated TVI surveillance unit (camera, recording, transmission) with remote real-time/archive access
SD-Q600-LV	Low Voltage AC variant

Key features

- Rapid deployment, one-piece, vandal-resistant design with PTZ camera, recording and transmission module
- Uniquely efficient TVI wireless transmission for ultra-resilient real-time viewing and archive retrieval
- Complete operator control over bandwidth utilization and costs – with instant switching between modes
- Enhance mode allows for retrieval of critical details, whilst retaining a real-time operational picture
- Up to 256Gb of onboard storage with remote retrieval and full res retrieval of archived footage
- Seamless access to video and camera control from leading VMS platforms (Milestone, Genetec...)
- Mobile access to real-time surveillance on standard handsets/ tablets – with full mobile enhance feature

Operational domains and installed base

The SD-Q600 is specifically designed for deployment in urban environments. Its integrated surveillance features, remote access and ruggedized design make it ideal for:

- Monitoring of vulnerable facilities and sites
- Street and housing-estate surveillance
- Temporary surveillance e.g. events



SD-Q600 is built on class-leading TVI architecture for effective operational surveillance transmission, even where network bandwidth is low or variable.

TECHNICAL SPECIFICATIONS SD-Q600

US.D.029
SD-Q600

Video Streaming

Streaming Performance	Up to a maximum of 25fps at D1 resolution
Streaming Connection	Reliable, secure (AES-256) video transmission from 9Kbps to 2Mbps
High-resolution Image Retrieval:	Up to D1 over user-definable areas via high quality JPEG

Recording

Recording Performance:	H.264 at maximum resolution of D1 at 25fps
Security:	Recordings are secured with AES-128 encryption and Fragile Digital Watermarking
Storage Medium:	Internal 256GB non-removable disk
Typical Recording Duration:	Approx. 15 days on 256GB recording, 12.5fps at 1.5Mbps

Connectivity

Cellular:	Built-in 4G/LTE module
Wi-Fi:	Built-in 2.4GHz 802.11 b/g/n module

Camera

Sensor:	Vista VPL7-WP-SM 360° PTZ dome
CCD:	1/4" Sony Super HAD II CCD (960H)
Pixels:	Total: 1028 (H) x 596 (V), Effective: 976 (H) x 582 (V)
Min Illumination:	0.1Lux (color), 0.01Lux (mono)
PTZ Speed:	40°/sec (slow), 90°/sec (normal), 380°/sec (turbo), 380°/sec (presets)
Zoom:	22:1 optical and 16x digital

Physical Connectors

LAN:	1 x RJ45 (local web configuration)
Cellular Antenna:	2 x TNC antennas (3G/4G and MiMo)
Wi-Fi Antenna:	1 x TNC antenna
Audio:	1 x stereo line-level input
USB Ports:	1 x USB 2.0 Type A

Physical Characteristics

Physical Size:	Diameter 160mm x Height 387mm (L 7.8" x W 5.71" x H 1.65")
Operating Temp/Humidity:	-20°C to +50°C (-4°F to 122°F)
Weight:	6kg (13.2 pounds)
Input Voltage Range:	Options include 90-240V AC (standard model) or 24-48V AC (LV variant)
Power Consumption:	45W (standard model)
Enclosure:	IP66 rated all-in-one design, with universal mountings for simple deployment

Software Architecture

Video Distribution:	EdgeVis Server provides multi-viewer video distribution, using a granular user-permission system
EdgeVis Viewers Supported:	EdgeVis Client (iOS, Android, Windows). Control Center and TVI Viewer operate in compatibility mode
Third-party VMS Integration:	Integration into VMS provided via VMS Gateway or native integration (e.g. Milestone, Airship)

Regulatory Approvals

CE/FCC:	EN60950-1, EN55022, EN55024
FCC:	47CFR:2011 Part 15, Sub Part B