



Digital
Barriers

WIRELESS SURVEILLANCE EDGEVIS HD-Q800

RAPID DEPLOYMENT HI-DEFINITION CAMERA AND WIRELESS TRANSMISSION UNITS

The HD-Q800 is a revolutionary option for rapid deployment of CCTV cameras – with ultra-efficient and cost-effective use of cellular networks. It features EdgeVis Live, our unique video-streaming solution, for complete control over surveillance (as well as network data costs) plus onboard storage options.

Unlocking the flexibility of wireless surveillance

More organisations 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 video transmission. 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 EdgeVis Live HD-Q800 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

EdgeVisHD-Q800units 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 EdgeVis Live system allows an operator to set bandwidth rate and picture settings (frame rates, detail levels) to a 'monitoring' mode that minimises 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.

Key features

- Rapid deployment, one-piece, vandal-resistant design with 1080p PTZ camera, recording and transmission module
- Uniquely efficient TVI wireless transmission for ultra-resilient realtime viewing and archive retrieval
- Complete operator control over bandwidth utilisation and costs – with instant switching between modes
- Enhance mode allows for retrieval of critical details, whilst retaining a real-time operational picture
- Up to 2TB of onboard storage with remote retrieval and full res retrieval of archived footage
- Additional connectivity options, such as third-party Mesh Radio or additional Wi-Fi router for operational flexibility
- Seamless access to video and camera control from leading VMS platforms (Milestone, Genetec etc)

Operational domains and installed base

The HD-Q800 is specifically designed for deployment in urban environments, therefore ideal for:

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



TECHNICAL SPECIFICATIONS EDGEVIS HD-Q800

VIDEO STREAMING	Streaming Performance	Up to a maximum of 1080p at 10fps, 720p at 20fps, D1 at 30fps
	Streaming Connection	Reliable, secure (AES-256) video transmission from 9Kbps to 2Mbps
	High-resolution Image Retrieval	Up to 1080p over user-definable areas via high quality JPEG
ALARMS	Video Analytics	Up to 2-channel, sterile-zone video analytics provided by SafeZone-2D (optional extra)
RECORDING	Recording performance	H.264, at maximum resolution of 1080p at 30fps
	Security	Recordings are secured with AES-256 encryption and Fragile Digital Watermarking
	Storage Medium	Internal non-removable 1TB SSD disk (2TB option available)
	Typical recording duration	Approx. 30 days on 2TB recording, 30fps at 6Mbps
CONNECTIVITY	Cellular	Built-in 4G/LTE module
	Wi-Fi	Built-in 2.4/5GHz 802.11 ac module
	LAN	LAN connection (with power), to support additional connectivity (e.g. Mesh Radio, secondary Wi-Fi)
CAMERA	PTZ	360° PTZ dome, with PTZ presets and tour
	Lens	4.5mm-135mm (F1.6-F4.4), field of view: 2.4°-60.9°
	Minimum Illumination	Lo.05 Lux (colour), 0.01 Lux (mono)
	Maximum Zoom	30x optical
PHYSICAL CONNECTORS	LAN	1 x Hirose RM-W Circular connector with 1000mbit/s ethernet, PoE+ power or 12V @ 2A (switchable)
	Cellular Antenna	2 x N-Type antennas (3G/4G and MiMo)
	Wi-Fi Antenna	2 x N-Type antennas
	USB Ports	1 x USB 3.0 Type A (configuration only)
PHYSICAL CHARACTERISTICS	Physical Size	Diameter 228mm x Height 486mm (D 9" x H 19")
	Operating Temp/Humidity	-20°C to +55°C (-4°F to 131°F)
	Weight	7.6Kg (16.7 pounds)
	Input Voltage Range	90-240V AC
	Power Consumption	34W (using Wi-Fi and cellular)
	Enclosure	IP67 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
	Local Access	SFTP recording download service, accessible through Wi-Fi or LAN connection
	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)
RATINGS & REGULATORY	Safety	IEC 60950-1, Second Edition, IEC 60950-22, UL 60950-1, UL 60950-22, CSA C22.2 No. 60950-1, CSA 60950-22
	CE	EN55032:2012 plus corrigenda Aug 2012 & Dec 2012 (Class B), EN55024:2010 + A1:2015, EN301 489-1 V2.1.1, EN301 489-17 V3.2.0
	FCC	47CFR:2011 Part 15, Sub Part B

Contact Digital Barriers or your local reseller for further details on our solutions

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