



WIRELESS SURVEILLANCE EDGEVIS HD-S600

HIGH DEFINITION REAL-TIME SURVEILLANCE STREAMING AND EDGE RECORDING

The HD-S600 video streaming unit delivers high-quality, usable HD video and stereo audio over a range of bearers, including low/variable bandwidth networks.

With its unique TVI technology and plug-and-play simplicity, HD-S600 combines the clarity of HD with the power of the TVI surveillance-distribution platform.

Not all wireless video solutions are created equal

The TVI surveillance distribution platform is a world-class solution for streaming and accessing video over low or variable bandwidth networks. In comparison to other video-encoding technologies, such as H.264 or MPEG, TVI provides a higher quality, lower latency and more resilient approach to real-time video and audio transmission. TVI combines a proprietary video codec and an ultra-efficient, adaptive approach to managing the underlying network bearer. This results in far more usable live video.

The introduction of the HD-S600 encoder and inbuilt DVR brings the power of HD video to the TVI platform, with the simplicity of the 'plug-and-play' HD-SDI interface. With its compact form factor, low-power operation and secure end-to-end encryption, HD-S600 represents the ultimate next-generation edge transmission system for capturing and distributing mission-critical surveillance, exploiting a number of comms bearers, including cellular networks.

Practical operational benefits

From its origins in the UK surveillance community, TVI is now the proven platform of choice for covert surveillance operations worldwide. It was developed from the outset to deliver usable video and audio in real-world conditions, without the need to deploy specialist infrastructure.

TVI combines resilient real-time streaming, low-power requirements, low latency and inbuilt security features to meet the needs of surveillance operatives. TVI ensures a more efficient representation of detail at lower network bandwidths, particularly where motion levels are high, as well as very low latency for remote PTZ camera control. This ensures reliable, responsive surveillance gathering in real-world conditions – including mobile operations.

TVI also includes a full-resolution enhancement function, allowing remote retrieval of detail in frames and areas of interest. Whilst using this function, the operator is simultaneously able to view the real-time video stream, thereby ensuring that situational awareness is not compromised.

Product codes

HD-S600 Small form factor HD real-time streaming and recording unit

Key features

- Secure live video streaming up to 1080p HD from an HD-SDI camera - with second SD camera input
- Dual independent audio coding at line level and mic level to ensure complete evidential integrity
- Built-in 4G LTE cellular modem and 802.11b/g/n Wi-Fi module for streaming at 9Kbps up to 1Mbps
- Remote RJ45 Ethernet to connect to external communications bearers (such as satellite or ADSL)
- Dual microSD cards for local archiving (in H.264 format) at a maximum resolution of 1080p (at 15fps)
- Native external recording support, using locally attached NAS device
- Local RJ45 Ethernet for RTSP/Profile S compatible edge recording (in H.264 format) and local viewing
- Compact enclosure with no moving parts, designed for rapid deployment and reliable and silent operation

Operational domains and installed base

TVI technology is deployed by organisations in the law enforcement, military and transportation domains, as well as by those responsible for securing public spaces. TVI is ideally suited to static and dynamic operating scenarios:

- Covert and tactical surveillance operations
- Rapidly deployed surveillance cameras
- Wire-free fixed surveillance installations



Full HD 1080p real-time streaming and recording

HD-SDI is the ultimate video solution for organisations that rely on high-quality, high-definition, reliable video feeds

HD-S600 is designed around the class-leading TVI platform for assured, operationally effective surveillance distribution

TECHNICAL SPECIFICATIONS EDGEVIS HD-S600

UK.D.028 V111017
HD-S600

Video Streaming

Streaming Performance:	One camera streaming up to 1080p at 5fps, 720p at 10fps, D1 at 25fps
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
Local Video Output:	Output local H.264 RTSP/Profile stream, allowing local storage onto NVR or VMS

Recording

Recording Performance:	One channel (for HD-SDI maximum of 1080p at 15fps in H.264 format, SD records at D1 25/30fps)
Security:	Recordings are secured with AES-128 encryption and Fragile Digital Watermarking
Storage Medium:	Dual microSD cards (max 2 x 128GB) or external NAS Storage
Typical Recording Duration:	Approx. 8 days on 256GB recording at 1080p, 10fps at 3Mbps

Connectivity

Cellular:	Built-in 4G/LTE module (supports Verizon)
Wi-Fi:	Built-in 2.4GHz 802.11 b/g/n module
LAN:	Supports transmission over LAN, ADSL, SatCom or Mesh Network
GPS:	Supports RS232/USB GPS dongle

Camera Inputs

Video Input Format:	One HD-SDI input (1080p), one standard-definition BNC connector (PAL/NTSC)
Audio Input Format:	Line-level stereo input or dual mono Mic inputs
PTZ Connectivity:	Supports common protocols including Pelco P&D and Sony Visca (other protocols on request)

Physical Connectors

LAN Input:	1 x RJ45 (transmission), 1 x RJ45 (local setup/RTSP stream)
Cellular Antenna:	2 x SMA antennas (3G/4G and MiMo) 50Ω female
Cellular SIM:	1 x standard SIM carrier slot, network agnostic
Wi-Fi Antenna:	1 x SMA antenna 50Ω RP-female
Power (DC Input):	1 x 2-pin 12V DC screw-locked socket
Video:	1 x HD-SDI 75Ω female BNC, 1 x SD composite 75Ω female BNC
Audio :	1 x 3.5mm jack (line-level input), 2 x 3.5mm jack (audio input mic level with mic bias)
USB Ports:	1 x USB 2.0 Type A
Telemetry:	1 x RJ45 (RS232 PTZ telemetry), 1 x RJ45 (RS422/485 PTZ)

Physical Characteristics

Physical Size:	L 185mm x W 140mm x D 57mm (L 7.25" x W 5.5" x D 2.25")
Operating Temp/Humidity:	-35°C to +50°C (-30°F to 122°F) 10% to 98% relative humidity
Weight:	1.4kg (3.1 pounds)
Input Voltage Range:	9-36V DC
Power Consumption:	18W max (at 12V), 13W idle operation
Enclosure:	IP40 heat-dissipating fanless aluminium design

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

EMC Conformity:	EN55022 and EN55024
FCC Compliance:	47CFR:2011 Part 15, Sub Part B



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