

WIRELESS SURVEILLANCE EDGEVIS HD-IP470

REAL-TIME HD SURVEILLANCE STREAMING AND EIGHT-CHANNEL NVR

The HD-IP470 video streaming and archiving unit delivers usable video and audio over a range of bearers, including low/variable bandwidth networks.

With its unique TVI technology and connections for up to eight IP cameras, the HD-IP470 combines real-time streaming with secure edge recording.

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 significantly more usable live video.

The HD-IP470 combines the flexibility of IP cameras with a local eight-channel NVR, providing real-time streaming of HD video and simultaneous access to up to eight channels in 'quad view' mode. It is designed to work with leading IP cameras, including Axis, Bosch and Canon, with Power-over-Ethernet (PoE) for simple deployment. With its ability to exploit a range of network bearers, from an inbuilt 4G LTE modem to Mesh Radio, the HD-IP470 delivers a true 'surveillance anywhere' capability.

Practical operational benefits

From its origins in mission-critical surveillance, TVI is now the platform of choice for a growing range of surveillance applications, from mobile operations to rapid deployment cameras and cloud-based video surveillance as a service (VSaaS) installations. It was developed from the outset to provide seamless access to video and audio from almost any location, with distribution to mobile devices as well as control rooms. Its ability to stream over cellular, WiFi and wired networks means cameras can be deployed quickly without the need for specialist infrastructure.

By combining local recording, remote access and video from PoE IP cameras, the HD-IP470 presents the operator with a real-time surveillance picture – and the ability to access 'full res' camera imagery as situations require. This includes areas or frames of interest from real-time and archived footage. The TVI platform offers an exceptional level of control over network utilisation, with the ability to set maximum bandwidth remotely to control data costs.

Product codes

A-01-1601-0001 HD-IP470 (Rest of World modem - MC7455)
A-01-1601-0002 HD-IP470 (Asia-Pacific modem - MC7430)

Key features

- Supports eight IP camera inputs with single-channel HD streaming and 'quad-view' four-channel streaming view
- Ultra-resilient real-time video and audio streaming over low or variable bandwidths (gKbps to 2Mbps)
- Local NVR records eight channels in H.264 format to a maximum resolution of 1080p
- Integrated SSD recording disk, with support for optional USB/NAS recording
- Built-in 4G cellular modem (UMTS/HSPA+/LTE) and WiFi connectivity
- High-quality vibration-resistant and heat-dissipating fanless enclosure for reliable vehicle-based operation
- Simple web-based configuration of cameras and NVR with remote control of streaming/recording settings
- Can generate alarms and trigger recording using industry-leading video analytics (optional extra)

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. With its range of hardware and software devices, TVI is ideal for use in a variety of static and dynamic operating scenarios:

- Vehicle-based and mobile operations
- Transportation surveillance
- Rapidly deployed surveillance installations



**SAFER.
STRONGER.
MORE SECURE.**

TECHNICAL SPECIFICATIONS

VIDEO STREAMING	Streaming Performance	One camera streaming up to 1080p at 10fps, 720p at 15fps
	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 4-channel, sterile-zone video analytics provided by SafeZone-2D (optional extra)
RECORDING	Recording Performance	Up to a maximum of eight channels at 1080p at 25/30fps in H.264 format
	Security	Recordings are secured with AES-256 encryption and Fragile Digital Watermarking
	Storage Medium	Integrated 1TB mSATA SSD or external USB Disk
	Typical Recording Duration	Approx. 9 days on 1TB SSD recording at 10fps at 3Mbps for 4 cameras
CONNECTIVITY	Cellular	Built-in 4G/LTE module (Asia-Pacific MC7430 and Rest-of-World MC7455 variants)
	WIFI	Built-in 2.4GHz/5GHz 802.11ac module
	LAN	Supports transmission over LAN, ADSL, SatCom or Mesh Network
	GPS	Built-in GPS module
CAMERA INPUTS	Video Input Format	8-channel IP video input H.264 up to 1080p resolution up to 30 fps
	Audio Input Format	Via IP camera – dependent on camera models chosen
	PTZ Connectivity	Via IP camera – dependent on camera models chosen
	Camera Interoperability	Broad compatibility with AXIS, Bosch, Canon, Panasonic and other standards-based H.264 Profile S cameras
PHYSICAL CONNECTORS	LAN Input	3 x RJ45, 2 with 802.3at PoE+
	Cellular Antenna	2 x SMA (3G/4G and MiMo) 50Ω female
	Cellular SIM	1 x standard SIM carrier, network agnostic
	GPS Antenna	1 x SMA 50Ω female
	WIFI Antenna	2 x SMA 50Ω RP-female
	Alarm Inputs	15 pin DIO (digital input/output) connector for up to four simple contact alarms
	Power (Remote On/Off)	1 x 3-pin terminal block DC socket (with ignition delay on/off control)
	USB Ports	2 x USB 3.0 Type A, 2 x USB 2.0 Type A
PHYSICAL CHARACTERISTICS	Physical Size	L 161mm x W 115mm x D 56mm (L 6.3" x W 4.5" x D 2.2")
	Operating Temp/Humidity	-20°C to +55°C (-4°F to 131°F) no POE, 10% to 90% relative humidity -20°C to +50°C (-4°F to 122°F) using POE
	Weight	1kg (2.2 pounds)
	Input Voltage Range	9-35V DC (60W PSU supplied, other options available)
	Power Consumption	22W max (at 12V), 15W idle operation, excluding PoE camera load
	Enclosure	IP40 design, supplied mounting kit
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)
	Third-party VMS Integration	Integration into VMS provided via VMS Gateway or native integration (e.g. Milestone, Airship)
RATINGS & REGULATORY	Shock and Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes (according to IEC60068-2-64) Operating, 50 Grms, Half-sine 11 ms Duration (according to IEC60068-2-27)
	FCC	47CFR:2011 Part 15
	CE EMC	2014/30/EU Annex II (Standards: EN 55032:2015, EN 61000-3-2: 2014, EN 61000-3-3: 2013, EN 55024: 2010+A1: 2015)

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