



Digital
Barriers

WIRELESS SURVEILLANCE TVI M350

RUGGEDISED WIRELESS VIDEO ENCODER AND INTEGRATION HUB

TVI M350 is a ruggedised real-time wireless video-streaming solution that delivers high-quality video/audio with low-power consumption.

Its compact and resilient form factor (IP67 rated) and silent operation make the TVI M350 ideal for deployment in harsh environments.

Not all wireless video solutions are created equal

EdgeVis wireless encoders, powered by TVI technology, are a world-class surveillance solution for secure remote viewing of video over low or variable bandwidth networks. In comparison to other wireless video technologies, such as MPEG compression, EdgeVis provides a higher quality, lower latency and more resilient approach to real-time video and audio streaming.

MPEG and H.264 solutions rely on standard compression techniques that can result in reduced frame rates, frame skipping, break-up and latency. In contrast, by combining a proprietary codec with an adaptive and more efficient approach to managing the underlying communications channel, EdgeVis is able to maintain a fixed frame rate and deliver lower latency video over constrained or variable bandwidths. The M350 is a fully featured EdgeVis encoder and surveillance hub in an IP67-rated ruggedised enclosure.

Practical operational benefits

EdgeVis ensures a more efficient representation of detail at lower bandwidths, particularly where motion levels are high, as well as exceptionally low latency in the remote control of cameras. Error resilience is also particularly high, since the EdgeVis codec is more tolerant of packet loss.

With secure AES 256 encryption, a compact form factor, low power consumption (5.5 watts nominal to 1.5 watts in standby mode and 0.1 in sleep mode) and the flexibility to operate over cellular and satellite networks, as well as tactical IP radios and Internet, TVI M350 can be rapidly deployed into a range of operational settings. IP67 rated, it is built to withstand harsh environmental conditions, vibration associated with vehicles and a drop of one metre.

Multiple operators are able to view live streaming video and the unit also supports retrieval of high resolution images with simultaneous streaming of video, providing access to frames of particular interest. The M350 is also capable of parallel streaming of meta-data. The M350 unit is configured by a USB key pen, which can be undertaken in advance or in the field.

Product codes

TVI-M350 Ruggedised form factor wireless video encoder

Key features

- Secure live video and audio transmission in locations with very low bandwidth (supports 4Kbps to 1Mbps)
- Ruggedised IP67 rated enclosure with no moving parts for reliable, low power and silent operation
- Rapidly deployable (in minutes) for operational situations where installation time is critical
- Includes RS232/RS422/RS485 port for camera control and sensor/alarm input for solution integration
- Concealed status LEDs to ensure that no lights are inadvertently visible during configuration/start-up
- Local storage of previous configuration to enable restore should re-configuration fail for any reason
- Built-in CDMA/EV-DO/GPRS/EDGE/UMTS/HSPA+ module and satellite connectivity (via RJ45 port)

Operational domains and installed base

The TVI M350 is specifically designed for organisations with a requirement for a ruggedised IP67-rated form factor to withstand harsh environmental conditions and a robust design to accommodate vehicle vibration:

- Covert surveillance operations (video and/or audio)
- On-board vehicle-mounted surveillance
- Tactical surveillance for forward operations
- Battlefield communications and conferencing



**SAFER.
STRONGER.
MORE SECURE.**

Connectors

Front Panel

USB:	IP67 USB connector for configuration and serial devices
RJ45:	Ethernet connector for ADSL and network lines
SIM:	Lockable, concealed SIM carrier (network agnostic)



Rear Panel

Video Input:	Amphenol 62GB connector, 4 pin (2 for video, 2 for power)
Audio:	Two-way audio (one way supported with current release software)
19 Pin Amphenol:	RS232/RS422/RS485 camera control and sensor/alarm input
Power:	Three-pin Amphenol 62GB connector to support vehicle or battery operation
RF Antenna:	Antenna for internal CDMA/EV-DO/GPRS/EDGE/UMTS/HSPA+



Communications

Internet Connectivity:	10/100 RJ45 Ethernet
GPRS/3G/HSDPA Connectivity:	Built-in module CDMA/EV-DO/GPRS/EDGE/UMTS/HSPA+
Satellite Connectivity:	10/100 RJ45 Ethernet for connection to Inmarsat GAN/BGAN Fleet Routers
PTZ Connectivity:	Supports Pelco P&D, Sony Visca, etc.
Bandwidths Supported:	9Kbps to 1Mbps

Security

Encryption:	Built-in AES 256 encryption
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Ratings and Regulatory Approvals

IP Rating:	IP67
EU Low Voltage Directive:	2006/95/EEC for product safety
EMC Conformity:	Directive 89/336/EEC
FCC Compliance:	Class B Digital Device Part 15



M350 is designed around the class-leading EdgeVis architecture for operationally effective surveillance transmission, even over limited or variable network bandwidths.



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

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