



TVI C310 real-time wireless video streaming encoders provide high-quality video/audio and are low-power, secure and easy to deploy.

With a compact form factor, silent operation and very low-latency remote camera control, these TVI encoders are ideally suited to covert surveillance.

### Not all wireless video solutions are created equal

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

MPEG and H.264 solutions rely on standard compression techniques that can result in reduced frame rates, frame skipping and difference coding. In contrast, by combining a proprietary codec with an adaptive and more efficient approach to managing the underlying communications channel, TVI is able to maintain a fixed frame rate and deliver lower latency video over constrained bandwidths.

### Practical operational benefits

TVI 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 TVI 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 GPRS, 3G and satellite networks, as well as tactical IP radios and the internet, TVI can be rapidly deployed into a range of environments and situations.

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.

### Product codes

TVI-C310 Wireless video encoder with CDMA/EV-DO/ GPRS/EDGE/UMTS/HSPA+ module

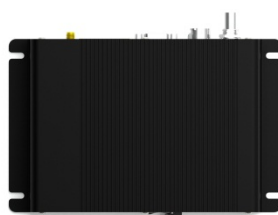
### Key features

- Secure live video and audio transmission in locations with very low bandwidth (supports 9Kbps to 1Mbps)
- Rapidly deployable (in minutes) for operational situations where installation time is critical
- Lightweight, compact enclosure with no moving parts for reliable, resilient and silent operation
- Highly reliable on-board surveillance transmission from moving vehicles
- TVI C310 includes built-in CDMA/EV-DO/GPRS/EDGE/UMTS/HSPA+ module
- 10/100 RJ45 Ethernet connector for ADSL and network lines and satellite connectivity
- Changes to codec settings or software upgrades can be delivered remotely over the air

### Operational domains and installed base

TVI codecs are deployed by organisations in the law enforcement, military and transportation domains, as well as by those responsible for securing public spaces. Its compact form factor and simple installation make it ideal for a range of static and dynamic operating scenarios:

- Covert surveillance operations (video and/or audio)
- Mobile policing and rapid response
- Tactical surveillance capability (e.g. blind spots)
- On-board monitoring (e.g. mass-transit buses)
- Critical infrastructure protection (e.g. utilities)



Model shown is the C310 with integrated modem

### Hardware

Physical Size:	L195mm x W148mm x D37mm (including connectors)
Operating Temperature:	-32° to +60°, non-condensing
Input Voltage:	9V-36V DC
Power Consumption:	7W max (8.5W with fully operational modem, 5.5W nominal, <1.5W standby, <0.1W sleep)

### Software

Viewers Supported:	Software available for Windows PC and Windows Mobile 6, iPhone and Android
Video Frame Sizes Supported:	128 x 96 up to 704 x 576 (4CIF), frame rates up to 25fps (PAL)
High Resolution Image Retrieval:	Enhanced definition (up to 704 x 576) over user-definable areas via high quality JPEG

### Connectors

#### Front Panel

USB:	For configuration and serial devices
RJ45:	Ethernet connector for ADSL and network lines
SIM:	SIM carrier (network agnostic)



#### Rear Panel

Video Input:	Standard BNC connector (PAL/NTSC/SECAM sources)
Audio:	2 way audio (one way supported with current release software)
RS422/Trigger:	Camera/device control, trigger input for wake/alarm reporting
RS232:	Serial port for camera/device control
RF Antenna:	Antenna for internal GPRS/3G/HSDPA module



### Communications

Internet Connectivity:	10/100 RJ45 Ethernet
Connectivity:	Built-in module CDMA/EV-DO/GRPS/EDGE/UMTS/HSPA+
Satellite Connectivity:	10/100 RJ45 Ethernet for connection to Inmarsat GAN/BGAN Fleet Routers
PTZ Connectivity:	Supports Pelco P&D, Canon VC-C4/5, Sony Visca, etc. (other protocols on request)
Bandwidths Supported:	9Kbps to 1Mbps

### Security

Encryption:	Built-in AES 256 encryption in addition to support for IP Sec VPN connections
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### Ratings and Regulatory Approvals

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