



Digital
Barriers

WIRELESS SURVEILLANCE TVI C310

REAL-TIME WIRELESS SURVEILLANCE STREAMING

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 8.5 watts while transmitting over 3G) 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
- 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)



SURVEILLANCE | SECURITY | SAFETY

SAFER.
STRONGER.
MORE SECURE.

TECHNICAL SPECIFICATIONS TVI C310

V3 -080917
DS-WS-C310

Video Streaming

Streaming Performance:	One camera streaming up to CIF at 25fps, 2CIF at 12.5fps or 4CIF at 5fps
Streaming Connection:	Reliable, secure (AES-256) video transmission from 9Kbps to 1Mbps
High-resolution Image Retrieval:	Enhanced definition (up to 704 x 576) over user-definable areas via high quality JPEG

Recording

Recording options:	Integration support for various third-party DVRs including Timespace and Ovation models
--------------------	---

Connectivity

Cellular:	Built-in CDMA/GPRS/EDGE/UMTS/HSPA+ module (supports Verizon)
LAN:	Supports transmission over LAN, ADSL, SatCom or Mesh Network
GPS:	Support for external RS232/USB GPS module

Camera Inputs

Video Input Format:	Standard-definition BNC connector (PAL/NTSC)
Audio Input Format:	Line-level stereo audio input
PTZ Connectivity:	Supports common protocols including Pelco P&D and Sony Visca (other protocols on request)

Physical Connectors

LAN Input:	1 x RJ45
Cellular Antenna:	1 x SMA antenna 50Ω female
Cellular SIM:	1 x standard SIM carrier, network agnostic (accessed via front panel)
Power (DC Input):	1 x 2-pin 12V DC socket
RS422/Trigger:	1 x 8-pin terminal connection (block included), supporting RS422/485 and single simple contact alarm
RS232:	1 x 9-pin DB9 serial port
Video:	1 x 75Ω female BNC
Audio:	1 x 5-pin DIN socket
USB Ports:	1 x USB 2.0 Type A

Physical Characteristics

Physical Size:	L 195mm x W 148mm x D 37mm (L 7.8" x W 5.71" x H 1.65")
Operating Temp/Humidity:	-32°C to +60°C (-25°F to 140°F) 10% to 98% relative humidity
Weight:	680g (1.5 pounds)
Input Voltage Range:	9-36V DC (power supply included)
Power Consumption:	8.5W max (at 12V), 5.5W idle operation
Enclosure:	IP40 heat-dissipating, fan-less 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

EU Low Voltage Directive:	2006/95/EEC for product safety
EMC Conformity:	Directive 89/336/EEC
FCC Compliance:	47CFR:2011 Part 15, Sub Part B

* The C310 is also compatible with systems still utilising the legacy TVI Server architecture

E&OE. Specifications subject to change without notice.



Digital
Barriers

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

© 2017 Digital Barriers plc. All rights reserved.

www.digitalbarriers.com