



tveon

Imagine what video can do

[www.tveon.com](http://www.tveon.com)

# About Tveon

Tveon brings the power of deep learning and video engineering to enterprises. We help clients improve how they use any video that is captured, created, cataloged, archived or distributed, to execute missions faster.

Our proprietary algorithms, machine learning and metadata analysis deliver:

- Dramatically improved video quality in low bandwidth environments
- Enhanced video streaming performance
- Unparalleled compression and fidelity

Drawing on years of computing experience, our solutions solve video challenges for clients in the defence, security, education, remote medicine, telecom/CDN and entertainment sectors.

Clients get the video quality they need and communicate in real-time to action threat analysis in low bandwidth environments. Our solution also reduces the complexity of your overall system.



# Our Technology

We are video industry innovators with deep expertise in video compression and custom video encoding, vision physiology, mathematical optimization, toolset integration, metadata, cloud computing and specialized software development. Our proprietary video technologies support:

- Encoding and compression
- Analytics and metadata
- Transmission, archival and pipeline file-size optimization

Our innovative thinking and end-to-end solutions deliver superior results and work with any type of camera, video format, editing or archival system, over any transmission pipeline and any viewing device.

We quickly deliver customized solutions to video challenges including:

- Customized transmission over ultra-low bandwidth frequencies
- Real-time, event-driven video encoding
- Customized encodes for object recognition, remote medicine and specialty video formats

Our initiatives include:

- Custom processors for UAV/USV and operator-wearable encoding capability
- Ongoing development of customized toolsets
- Video authentication

**Our solutions enable immediate, global dissemination of video data over any network, including commercial satellite.**



# Our Video Solutions

## Compression, High Fidelity + Event Driven Encoding

Our real-time encoding process enables changing video resolution in mid-stream in response to an external event or around any prescribed object within any frame. We can transmit object recognition capable video at below 300 kilobits per second, well within commercial satellite capability. This means legacy systems can now obtain global reach.

## Immediate Video Delivery + Situation Identification

In low bandwidth environments, Tveon dramatically reduces the time it takes to receive and disseminate video information, giving you more time to analyze, detect and intercept actionable situations earlier. Security and industrial systems that currently take days to communicate operational video now work in moments, allowing immediate decision making.

## Dynamic Contextual Encoding

Our Dynamic Contextual Encoding system delivers area specific compression capability by enhancing specifically targeted objects within each frame. Viewers can identify objects of concern with greater clarity and immediately vary and zoom in on their choices within a continuous feed, even within extremely low bandwidth environments. Target confidence is enhanced by our continued pursuit of delivering ever faster decision-making capabilities to you.



# Imagine What Video Can Do

## Data Can Do More

Greater functionality means improved service and capability. Our technology can extract video metadata and integrate analytics to provide analysts with actionable insights. We fully support object and facial identification from video data - all capable within an ultra low bandwidth live stream.

## Dramatic Reduction in Archival Costs

Our video encoding can be customized to make the most efficient use of your archival system. This means lowering storage costs by up to 95%, while delivering faster retrieval and archival transmission times.

## Make Your Existing System Do More

Our video encoding and transmission process is tailored to maximize the capability of your existing system infrastructure. Imagine the video component of your system becoming five to ten times more capable without material changes to your infrastructure. Our solutions help handle greater volumes of higher quality video, while saving costs and expanding your operational capability.



# Tveon Innovation

## Enhanced Capability



### Surveillance for First Response and Security

Tveon's technology can enable better and faster surveillance and immediate decision-making capability, no matter how or where the video intelligence is gathered. Our proprietary encoding systems are capable of supporting object and facial identification tools in ultra-low bandwidth environments, giving analysts and decision makers more information to respond rapidly to constantly changing events.



### Data Pipeline

The use of Tveon's technology dramatically reduces the bandwidth requirements for fully functional and actionable data intelligence, across platforms, networks and devices.



### Cyber Defence

Tveon's technology supports the use of any encryption system, including blockchain or any other validation methods to ensure that both security and authenticity issues are satisfied, across all platforms, networks and devices.





## Cloud Thinking



### Real-time Analysis

Tveon's proprietary technology dramatically improves the speed at which intelligence can be processed, exploited, filtered and shared. Tveon can reduce the latency of your system to effective real-time if desired.



### Cloud, Private Network or Tech-in-a-Box Solutions

Tveon's technology is fully functional on cloud or private networks. Customers can optimize capabilities and costs by using cloud services to flexibly respond to changing requirements, thereby saving time and money on processing capability, data storage and transmission. Tveon can help you reduce the size of your archival video data footprint by as much as 95%, dramatically reducing storage costs. This means that your video data can be transmitted in dramatically smaller file sizes, with dramatically increased speed.



# Contact



E-mail: [info@tveon.com](mailto:info@tveon.com)

Telephone: 778-484-9250

1628 Dickson Ave, Canada, V1Y 9X1

 [tveon.com](http://tveon.com)

 [linkedin.com/tveon](https://www.linkedin.com/company/tveon)

 [vimeo.com/tveon](https://vimeo.com/tveon)

