

VISUALLY INTELLIGENT SOLUTIONS for autonomous vehicles www.digitalbarriers.com



REAL-TIME VIDEO SITUATIONAL AWARENESS FROM CONNECTED VEHICLES - NO MATTER WHAT

From the giants of the traditional automotive industry to the latest Silicon Valley start-up, the mobility revolution is on: remove the driver from the equation.

The industry expects more than 70% of new cars shipped in 2020 to be connected and autonomous to some level.

People will have additional time on their journeys to consume on-device entertainment, while their vehicles will be pushing out yet more data, adding to the significant load on the same cellular networks.

The staggering amount of video streamed daily on smartphones and tablets is growing exponentially as consumers increasingly demand access to ubiquitous content.

By 2020 it will account for 75% of global mobile data traffic, consuming most of the available bandwidth that vehicles rely on to communicate with their owners and fleet operators.

This raises big questions for the manufacturers of autonomous vehicles and those responsible for them.

How can we ensure real-time video for situational awareness over heavily congested cellular networks, when something happens?

When every second counts, how can I see what is happening in and around an autonomous vehicle?

How can I see inside to help my passengers if they need assistance?

Digital Barriers is solving this problem by bringing EdgeVis Live - ultra-efficient, highly secure, real-time, IoT video, audio and data streaming - into connected vehicles.

EdgeVis Live:

- Developed for real-time, critical military video streaming over constrained cellular networks (over bandwidths as low as 10kbps)
- Designed for near-zero-latency video-streaming requirements over cellular networks from 2G to 5G
- Secure and especially resilient streaming of video, data and audio over congested cellular and Wi-Fi networks
- Significant cost and operational benefits to V2I (vehicle to infrastructure) and V2X (vehicle to everything) connectivity as it uses 60 per cent less bandwidth compared to other video solutions
- Government-grade security and IoT architecture



EDGEVIS™ Live
Powered by TVI

EdgeVis Live is the world's most flexible end-to-end surveillance distribution platform. It features a unique approach to video encoding and transmission to deliver a resilient stream of usable video from connected and autonomous vehicles to its owners or fleet operators, over almost any wireless network.

See what's happening in and around your vehicle when every second counts; no matter where you are.

**POWERFUL
OPERATOR
TOOLS.**



Accident alert? Your passenger is ill or not responding? Your kids are alone in the car?

EdgeVis Live provides immediate situational awareness (video, audio and data) to a vehicle owner or fleet operator when something goes wrong.

A user can view real-time video from inside and around a vehicle on any mobile device or in a control room, as well as retrieve high-definition images and recorded video to understand what, when and how something has happened.

For fleet operators, EdgeVis Live provides unlimited and secure redistribution of live video, audio and data across wireless networks for real-time situational awareness to as many people who need it.

**VIEW IN LEADING
VMS PLATFORMS.**



Ultra-low bandwidth streams displayed directly into your mobile devices or leading VMS

EdgeVis Live enables ultra-reliable low latency video streaming. Users are able to input feeds from mobile assets to their preferred video management system, including native integration with Milestone XProtect. This offers simultaneous remote access in a control room and wherever else it's needed, to both live and recorded footage.

Share a common operating picture across multiple parts or jurisdictions of your organisation when it really matters.

**TRULY
UNIQUE
STREAMING ABILITY.**



Delivering live video from anywhere to anywhere EdgeVis Live is designed for mobile real-time video streaming, addressing variability in networks and high levels of scene motion, that can render conventional solutions unusable.

Active network adaptation ensures video never exceeds available bandwidth, maintaining a constant frame rate without latency image break-up.

Our solutions have the unique ability to transmit usable video on almost any network from almost any source.

Contact Digital Barriers for further details on our solutions.

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