

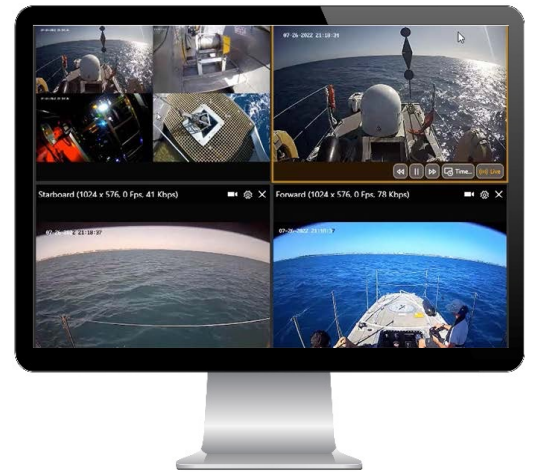
COMPUTER VISION AND SURVEILLANCE

ULTRA-LOW-BANDWIDTH VIDEO,
PURPOSE-BUILT FOR REMOTE AND
HARD-TO-REACH OPERATIONS

Speedcast SmartView™ is a cutting-edge, low-bandwidth video platform optimized for seamless encoding and transmission of real-time video across any networks. Whether leveraging LEO satellites like Starlink, Eutelsat OneWeb, and future constellations, or utilizing MEO, GEO, fiber, microwave, cellular, and L-band networks, SmartView efficiently manages bandwidth to deliver video at ultra-low bitrates, all the way up to high-definition streams, ensuring optimal performance regardless of network conditions.

Key Features

- **Integration with Speedcast SIGMA intelligent edge management solution:** Incorporates low-footprint virtualized video surveillance software.
- **Satellite Optimized CODECs:** Ranging from 1kbps to Ultra-high-definition quality.
- **Easy Deployment:** Simply plug into your IP network with data streams optimized through enterprise-grade SD-WAN.
- **API Opportunities:** Leverage APIs for advanced analysis and insights.
- **Inferences Deployment:** Easily deploy insights to SIGMA environments.



Value Propositions



Total Recall™ Image Enhancement:

Download high-resolution images for detailed visual confirmation.



User-Friendly Software: Designed for simplicity; no specialist training required.



Hardware Integration: Connects with off-the-shelf cameras worldwide via SmartView software or web interface.



Cost-Effective Streaming: Dramatically lowers data costs by enabling streaming as low as 1kbps.



Robust Performance: Stream real-time video even in the harshest network conditions.



Flexible Hosting Options: Choose between on-premise or cloud-based hosting solutions.



Multi-Stream Capability: Simultaneously manage multiple streams, each at different bitrates.



Professional Services: Experienced professionals offer solution design, site survey, installation, and expert support, ensuring tailored solutions that fit your requirements.

Turning Connectivity Into Command: Restoring Sight and Safety on Unmanned Offshore Platforms

How a SmartView upgrade eliminated remote site blind spots and cut emergency spending with minimal connectivity investment.

CUSTOMER

British multinational chemical and manufacturing company with operations and platforms in the North Sea. focused on hydrocarbon exploration and production, LNG, and carbon capture and storage technologies.

CHALLENGE

- Connectivity for unmanned North Sea platforms for as much as 80% of each month, with 25-30 days typically passing between maintenance visits.
- Subsea cable issues that severed primary communications to multiple offshore platforms, disrupting production.
- With comms down, onboard CCTV went dark, creating an immediate control and HSE risk on unmanned platforms.
- Even before the outage, legacy cameras over microwave and VSAT struggled to deliver the ~7Mb per camera needed for reliable flame detection, leaving operators with grainy shadows rather than usable images.
- Operators often couldn't distinguish rainwater pooling on deck from an actual hydrocarbon leak, undermining spill, leak, and flame detection, and safe helicopter landing.
- When visibility failed, the only fallback was to charter an emergency helicopter to physically check the platform, which was a slow and costly response to what might be a false alarm.

SPEEDCAST SOLUTION

- Speedcast delivered a single, end-to-end solution: upgraded remote site connectivity, SD-WAN optimization via SIGMA intelligent edge platform, and a fully integrated SmartView + CCTV solution.
- SmartView's satellite-optimized codecs compress video down to as little as 1kbps per stream, bringing every camera back online within the same bandwidth envelope that previously supported only a fraction of them.
- Real-time, reliable situational awareness lets operators verify events on the platform remotely and rule out false positives before committing costly resources.
- Existing analogue feeds were relayed alongside new digital, higher resolution cameras, protecting prior investment while offering upgrade paths. Bandwidth is managed economically, so higher-priority operations aren't impeded as the platform migrates further toward digital.
- Speedcast manages the system's full lifecycle remotely as a managed service, with SIGMA underpinning the platform for future scalability.

Easy to see when a stream is available but only uses data when the live feed is requested

Six live streams can be combined as one to reduce bandwidth consumption

Selectable variable bitrate that automatically adjusts according to bandwidth availability

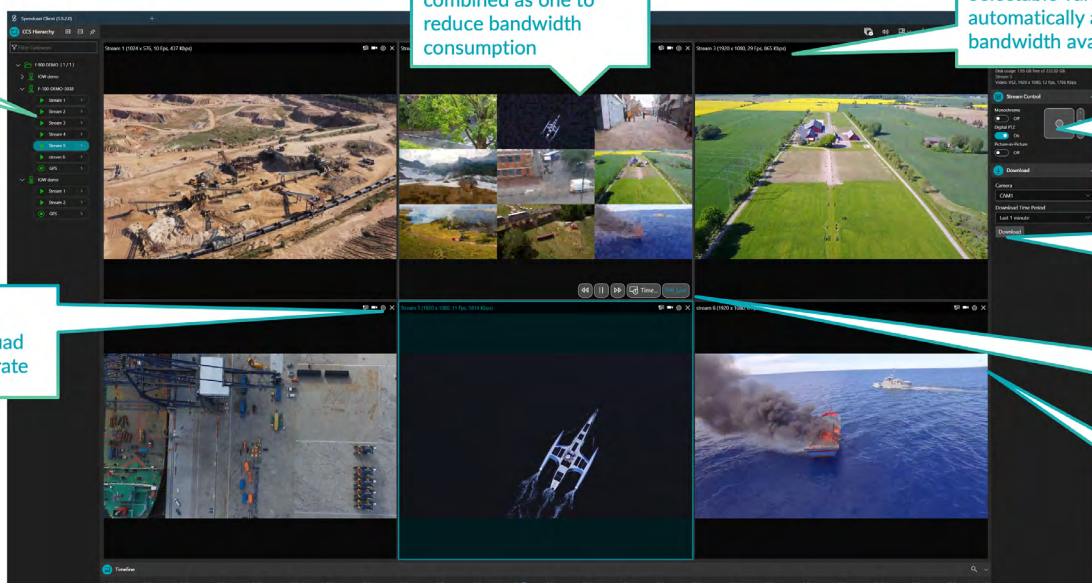
Select one of the live streams out of the quad to run at a higher bitrate

Full PTZ control

Downloadable, high resolution video

Live rewind and hold

ONVIF alerts from the edge cameras



SmartView Client Viewer

Multi-platform across Windows, Android, and iOS and delivers real-time video, audio, GPS, mapping data, and remote control features.