

Speedcast SmartView™

Next Generation Remote Video Streaming (RVS)



When machinery or assets go down, it means lost production time, resulting in additional labor and overtime, potentially late deliveries, increased costs in replacement parts and putting safety and quality at risk. To keep your operations running smoothly, maintenance is key and could cost as much as 20-60% of overall OPEX spend (McKinsey 2020).

Speedcast's network-optimized livestreaming solution,
SmartView, can reduce maintenance costs and increase profits.
By delivering real-time live content to personnel working in any location, SmartView increases asset availability and labor productivity and enables simultaneous review and decision making worldwide.



LIVE VIDEO AND DATA STREAMS ON VIRTUALLY ANY SMART DEVICE

HIGH PERFORMANCE

- High definition (HD) video and audio with data synchronization
- Ultra-low bandwidth with transfer rates as low as 32 kpbs
- Network-optimized, including VSAT, MSS and terrestrial
- Latency control on the fly
- Reduce bandwidth usage up to 80%

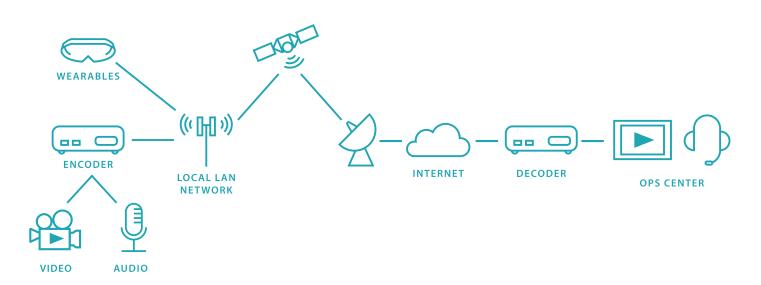
RELIABLE AND SECURE

- Connectivity offering uninterrupted 30fps HD video.
- Self-healing error correction algorithm stopping data loss and minimizing latency
- Artificial Intelligence (AI) Compression maximizing bandwidth utilization
- End-to-end encrypted video and data

SPEEDCAST SMARTVIEW™ SUITABLE FOR LAND AND SUBSEA



END-TO-END SOLUTION



CASE STUDY

Remote Inspections during Lockdown

CHALLENGE

COVID restrictions required a major oil and gas company to switch to remote inspections in order to conduct its critical maintenance surveys of its Australian plant and infrastructure

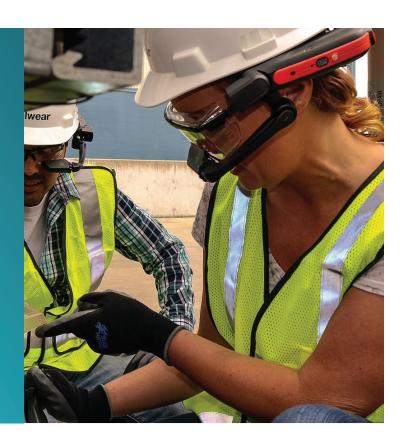
SOLUTION

The company used the SmartView for Wearables solution with real-time, high-quality, and simultaneous live-streaming video and voice capabilities. Their connected contract surveyors wore hardhat-mounted cameras in Australia with specialized engineers in Houston, USA. Infrastructure was inspected thoroughly, and critical maintenance data was captured and recorded with a complete audit trail.

RESULT'

\$100k savings

from reduced cost of travel and personnel.





CASE STUDY

Remote Support with HD Video

CHALLENGE

A leading global oil and gas provider, lacked the bandwidth to give expert remote deck support to its offshore vessels.

SOLUTION

Eight existing onboard CCTV cameras at the remote site were connected to its onshore command center. These cameras now deliver secure high quality live streams over low satellite bandwidth.

RESULT

Increased Quality Assurance and Operational efficiency while lowering costs and use of bandwidth.



PRODUCT SPECIFICATIONS

REMOTE FEATURE SET

- HMT-1 or HMT-1Z1 wearable headset from Realwear Inc. for low bandwidth live streaming
- 1080p 30fps Camera with option for Atex
- Zone 2 Intrinsically safe
- · Handsfree Wi-Fi headset
- Digital microphone with active noise canceling and multi language voice recognition support
- Compatible with hearing protection and PPE
- Full shift compatible battery charge with 9 10 hrs operation
- Lightweight unit (380g)
- · Ruggedized with a IP66 enclosure
- Rackmount streaming processor for multi-headsets
- Option for onsite monitor / mic and speaker system (additional hardware and configuration required)

WEB INTERFACE FEATURE SET

- Fully configurable client visual experience (customisable branding and color schemes to present video / data as required)
- End-to-end encrypted video and data
- · On-the-fly bandwidth and quality adjustment
- Once decoded, streams can be directed to the system for secure web access to streams
- Remote stream control



PRODUCT SPECIFICATIONS

REMOTE FEATURE SET

- · SDI, HDMI and composite video inputs
- Serial or IP data capture
- Audio capture
- Extremely simple user interface
- Live input display
- · Silent 3U form factor
- On-the-fly option to direct all available bandwidth to a single stream or share between the quad video inputs
- Ultra low bandwidth H265 stream (64 2048k)
- SD / HD Options , configurable on-the-fly
- Error corrected video 30% packet loss tolerance

PRIMARY FEATURE SET

- On-the-fly bandwidth and latency adjustment
- Real-time monitoring of bandwidth utilization and latency
- System capable of 60fps at 1080p
- · Web control enables instant redirection of encoded video streams to any decoder on the network
- Quad view removing the need for downstream multi-viewer equipment
- Extremely robust error correction
- · Decoder stream forwarding
- · Proprietary protocols
- Serial input with frame synchronisation; Flexible system with easy to add and remove equipment;
 Upgradeable hardware and software

ADDITIONAL TECHNICAL SPECIFICATIONS [ENCODER]

- · Linux operating system
- Standard 3U rackmount
- Overall dimensions (mm) W 483 H 132 D380
- Maximum weight (kg) 9.7 / 8.6
- Ports [Encoder] 4 x HDMI in/Ethernet/USB/DB9 RS232 Serial/IEC C13 AC
- Ports [Decoder] 4 x Display port out/Ethernet/USB/DB9 RS232 Serial/IEC C13 AC
- Power requirements 100-240VAC, 50-60Hz
- Typical power usage (W) 45 /30 idle / 85 /70 operational / 350 / 195 max



PRODUCT SPECIFICATIONS

REMOTE FEATURE SET

- SDI, HDMI and analogue video inputs
- Serial data capture
- · Optional audio capture
- Extremely simple user interface
- Live input display
- · 2U form factor
- Ultra-low bandwidth video stream (64 2048k)
- SD / HD Options , configurable on-the-fly
- Error corrected video stream 30% Packet loss tolerance

WEB INTERFACE FEATURE SET

- Fully configurable client visual experience (customisable branding & color schemes to present video / data as required)
- Self-managed access by email invite
- 256bit encrypted video / data streams
- Multi browser compatible (inc. mobile devices)
- · On the fly bandwidth and quality adjustment
- Share a single stream across multiple presentations to different audiences worldwide
- Visualise data with multiple trend options
- Reseller friendly interface
- · Remote stream control

ADDITIONAL TECHNICAL SPECIFICATIONS

- Standard 2U rackmount
- Overall dimensions (mm) W 483 H 88 D 365
- Maximum weight 5.4kg
- Dedicated keys Reset, Start Stream, Stop Stream, View
- Ports HDMI, HD-SDI, Analog, 3.5mm Audio, DB9 Serial, Ethernet, IEC 13 AC
- Power requirements 100-240VAC, 50-60Hz Typical power usage 50W
- Included peripherals IEC power cable, serial gender changer, serial null modem, manual