

FireLight™

Ultra-Low Bandwidth Video Platform



Our expertise encompasses a diverse range of industries, including SatCom Operations, Maritime, Aviation, Uncrewed vessels, Government, Military, Defence, and Homeland Security.

Key Features

- Ultra-Low bandwidth video encoding from 4kbps up to full HD
- Ultra-low latency glass to glass
- Multiple streams from a single device
- Multiple areas of interest from multiple or single cameras
- Total Recall Hi-res snapshot and video retrieval even over low bitrate connections
- FIPS compliant AES128 bit and AES256 encryption
- High-resolution recording to local media
- PTZ, Events and AI integration

Videosoft's Low Bandwidth Video platform is an easy-to-use system for encoding and transmitting real-time video over wireless networks with bandwidth-managed encoding at ultra-low bitrates (from 4kbps) to full high resolution. Suitable for cellular, mesh and satellite networks.

FireLight[™] offers more than just streaming though, with key features to make remote surveillance and monitoring applications a reality even in the harshest environments.

By working closely with industry and customers for many years we have answered a lot of the questions with FireLight[™]... the next generation of video surveillance solutions.

With specialist knowledge and video processing techniques, and by adapting to network bandwidth conditions, Videosoft's FireLight[™] ensures low latency real-time video is delivered reliably across even the harshest network environments. Essential for mission-critical applications or where bandwidth is costly.

Specifics

The **Edge Gateway software** is the main video and data processing component of the solution and is the powerhouse of the system. All Videosoft hardware gateways come complete with Edge Gateway software, and it can also be sold separately for integration into many other hardware platforms such as Raspberry Pi, embedded computers and third-party equipment such as routers.

You connect **multiple cameras** and other devices to the edge gateway which will then **record Video, audio and data locally in full quality and on demand** (or alarm activated), stream live to the remote user or Video Management System over networks such as 3G/4G/5G, Satellite and Wireless.

Our **two-way communication** protocol means that full functionality can be maintained such as PTZ control and alarm notifications, either within our software or via the client VMS.

The Gateway will encode the video before transmission using highly optimized and efficient compression techniques specifically designed for low bandwidth and low latency. From as little as 4kbps it will also adapt the video encoding dynamically in response to network bandwidth conditions ensure reliable and real-time video delivery.

A unique feature of the gateway is that **multiple streams can be transmitted simultaneously**, each having its own bandwidth level and encoding parameters, which can also be changed dynamically by the user. Each stream can be set to a **selected area of interest** in the main scene to provide more detail from parts of the camera image.



Total Recall[™]

The **Total Recall**[™] **feature** allows you to recall hi-res images or videos from the recordings on the gateway if the encoded live stream does not give the detail that you need. For example, reading a license plate, or reading a gauge.

All streams and data from each product can be viewed

and managed remotely by Videosoft apps running

on Windows, Android and IOS or additionally, they can be passed to third-party VMSs for example to be incorporated as part of a wider system.

The system can run in full mode with central server requirements or can be run in point-to-point mode for direct connection to video clients.



Edge Gateway Capabilities

In addition to video capabilities, the gateway offers extensive compatibility with a wide range of devices. It's not solely limited to video; there exist abundant opportunities for connectivity and functionality.



Technical Features:

Configuration Interface:	Local Web interface and remote
Inputs:	IP Cameras, Analogue Cameras, Alarms (IP, Onvif, Serial). See Vic
Output Streams:	Multiple simultaneous video enc Multiple simultaneous data strea Multiple areas of interest for allo
Video Encoding Features:	High efficiency and performance
Variable Encoding Rates:	4kbps to multi-MBps, varying re Videosoft's unique technology – network bandwidths Full native mode (no transcoding
Recording Features:	Full rate recording of all input ty Local disc - internal or rremovab Remote playback and download Total recall™ hi-res image or vide
Encryption and Security:	Recorded data encrypted Stream encryption Full SSL certificate management FIPS compliant AES128 bit and A
Viewing Software:	Windows Videosoft Viewer Android / IOS RTSP MJPEG Onvif APIs available All major VMS supported



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