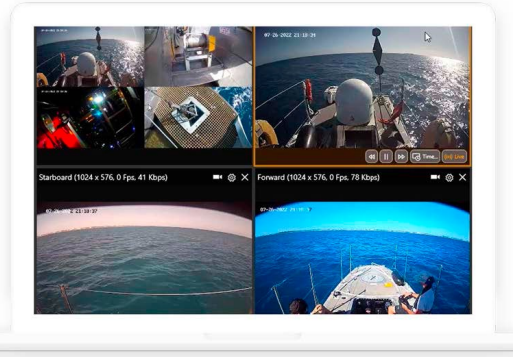


# Ultra-Low Bandwidth Video Platform

The TSE-FIRELIGHT offers more than just streaming though, with key features to make remote surveillance and monitoring applications a reality even in the harshest environments.

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.

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.



## Part #: TSE-FIRELIGHT

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.

## Features

- Real-time low bitrate video
- Video, audio and data streams
- On board management tools include full bitrate viewing and camera control
- Full, high-quality local recording
- Secure encrypted communications
- Multiple simultaneous output streams can be viewed and PTZ controls

**Tactical Support Equipment Inc.**  
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# Specifications (TSE-FIRELIGHT)

<b>Configuration Interface</b>	Android Version 6 (API Level 23)
<b>Inputs</b>	IP Cameras, Analogue Cameras, USB Cameras, Serial and IP I/ Os, Video files, Audio, Analytics, Alarms (IP, Onvif, Serial). See Videosoft hardware products for specific physical interfaces
<b>Output Streams</b>	Multiple simultaneous video encoded streams Multiple simultaneous data streams (for each input type) Multiple areas of interest for allocating bandwidth to parts of a scene
<b>Video Encoding Features</b>	Optimized Video compression, high efficiency and performance for live transmission
<b>Variable Encoding Rates</b>	4kbps to multi-MBps, varying resolutions and fps, user-defined and selectable encoding profiles Full native mode (no transcoding) for high rate streaming direct from camera
<b>Recording features</b>	Full rate audio and video recording to local device storage Encrypted video files
<b>Video Functions</b>	Remote playback and download of original footage
<b>Audio</b>	Recording Optional
<b>Encryption and security</b>	Recorded data encrypted, live streams encrypted, SSL certificate supported, FIPS compliant cryptography, AES128 and AES256 encryption
<b>Viewing software</b>	Videosoft 'Zone' viewing software for Windows, Android and IOS RTSP, MJPEG, ONVIF, Bespoke VMS integration, All Major VMS supported, APIs available.

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