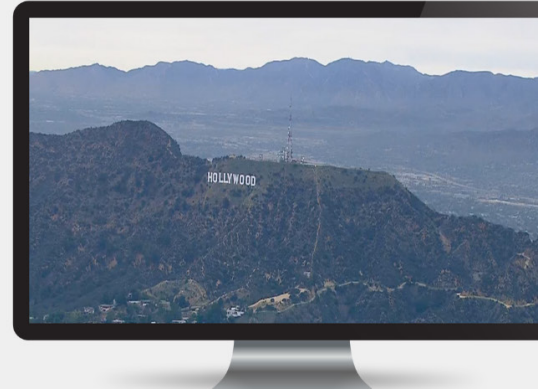




SURESTREAMER HELI



Reliable and Low Latency Video Downlinking for Public Safety Aviation

SureStreamer Heli is a video downlinking solution which meets the needs of public safety aviation professionals for surveillance and video transmission in emergency situations.

In an emergency, response time is critical. Police, fire-fighting, search and rescue services depend on fast and reliable audio and video communications.

This resilient, low latency solution enables high quality, simultaneous video streaming between mobile surveillance forces (helicopters, drones and vehicles), the Control and Command Centres, and the first responders.

On a low and constant latency of less than 0.5 sec. over 4G/5G networks (glass to glass) enables fast and efficient decision-making and action-taking, in real-time.

Key Benefits

Ultra-low latency

Thanks to the WorldCast SureStream Algorithm and the omission of channel bonding, the SureStreamer Heli ensures an ultra-low and constant latency, significantly lower than traditional broadcast video codec solutions operating on cellular.

Ultra-reliable

SureStream is a transmission technology from Worldcast Group based on diverse streaming sending multiple copies of your video feeds across different cellular network providers (Verizon, AT&T, Sprint, Vodafone, T-Mobile...*). SureStreamer Heli achieves high stability of the IP connection, even under difficult conditions. SureStreamer Heli enables real-time video transmissions with consistent high quality.

Ultra-secure

Utilizing secure VPN encrypted links for all transmissions over the cellular network and the public Internet, end-to-end video is secure and safe from prying eyes.

*SureStreamer Heli operates on any LTE/LTE+/5G Carrier globally, carriers listed are for illustrative purposes.

Low operating costs

By distributing content over affordable 4G/4G+/5G mobile internet links, the SureStreamer Heli replaces expensive Microwave installations or Satellite links. Using the unique tool-sets and features incorporated within SureStream, the SureStreamer HELI is compatible with any network with the use of standard SIM cards.

Low maintenance costs

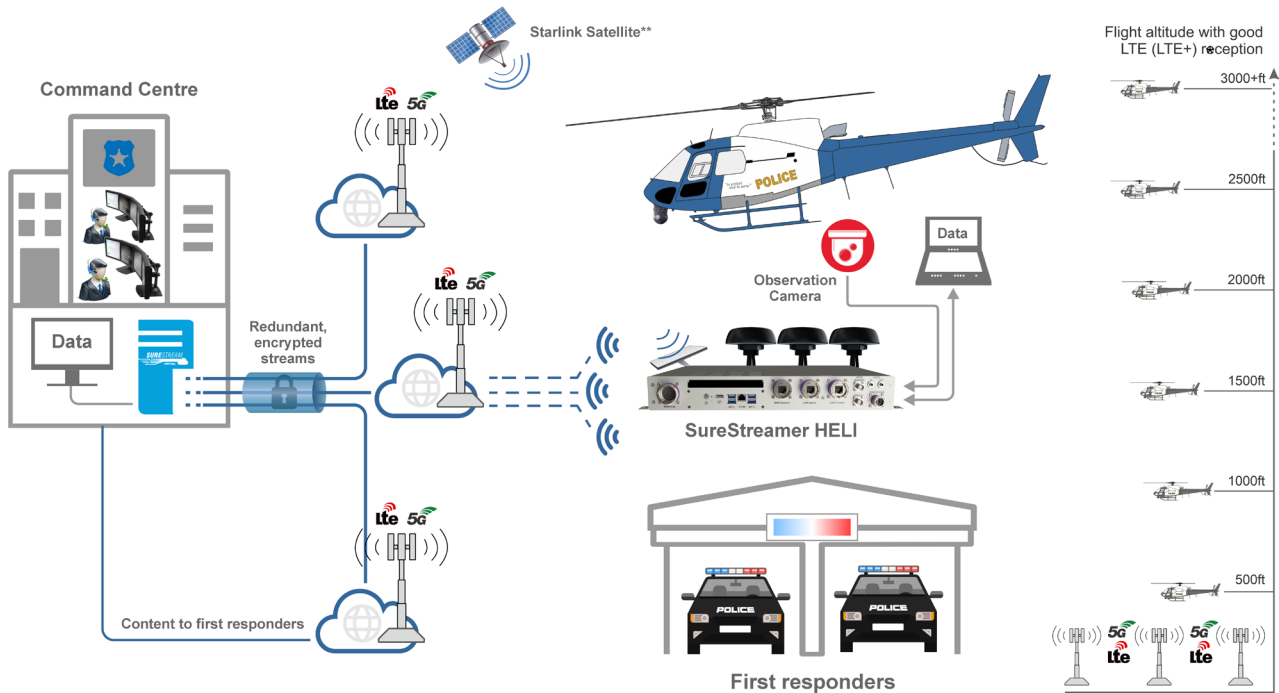
SureStreamer Heli utilizes existing cellular ground infrastructure meaning the customer no longer need worry about expensive maintenance and repair costs for agency owned and operated base stations. Furthermore, each SureStreamer Heli is protected by a comprehensive Support Agreement equating to a lifetime guarantee on the equipment.

Immediate and simple configuration

Easy to use by all personnel, the SureStreamer Heli is ruggedized and lightweight, comes in a robust aluminum cage and requires no on-site configuration - boot and connect!

Surestreamer Heli

High quality video transmission in less than 0.5 sec. air to ground!



**Optional Low Earth Orbit Satellite Link (Starlink)

Additionally multiple flights have been downlinked with stable video between 3,000 and 8,000ft *

“With the SureStream Heli our first responders can have multiple and simultaneous access to the ‘eye in the sky’ in real time. The team on approach make critical split-second decisions without direction or communication from the pilot or command centre!”

Technical Features

SureStream Heli	
The SureStream HELI comes in a robust aluminum cage (W/D/H 472 x 374 x 60 mm, 18 575” x 14 730” x 2 362”)	
System Power	
DC Input Voltage	28 VDC powered by the onboard electrical system, wired to the terminal block. Power consumption < 90 W (3 modems, SDI video)
Video	
Interface	1x SDI Input 1x Output (video monitoring)
Resolution / Bitrate / Mode	HD and SD / 0.8 to 12Mbps / CBR, VBR
Encoding	H.264 Base, Main or High Profile & H.265
Protocols	HTTP, RTMP, MPEG-TS, ONVIF, RTSP
Audio for Video Encoding	AAC, MP3, G.711 (SDI embedded or analogue stereo jack)
Audio Sampling Rate	AAC: 32/44.1 kHz, MP3: 32/44.1 kHz, G.711: 8kHz
Network and Transport	
Streaming	Simultaneous Streaming over 3 Modems (SureStream Protection on Packet level)
Security	Encrypted VPN tunnel
Latency	Low, TCP-free transmission. Typical: glass to glass ~0.5 – 1.5s (with Milestone X protect decoding)
Video and Network Payload	Video input on LAN: typical up to 2 Mbps, WAN using 3 modems: 3 x up to 2 Mbps
Air Interfaces (Modems) LEO Satellites	3x 4G+ / 5G Modems - LTE Bands: B1 - B8, B12 - B14, B17 - B20, 25, 28, 29, 30, 32, 34, 38, 39, 40, 41, 42, 46, 48, 66 & B71 5G (NSA) sub 6 GHz: n1, 2, 3, 5, 7, 8, 12, 20, 28, 38, 41, 66, 71, 77, 78 & n79. Starlink Option available
Required cellular Services	min. 3 SIM cards on different cell providers
Management	No field configuration is required, remote setup via WEB GUI

Technical specifications are subject to change without prior notice - On the project, WorldCast Systems may offer distinct specifications. Specifications on the offer prevail over those in this document.

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solutions**

