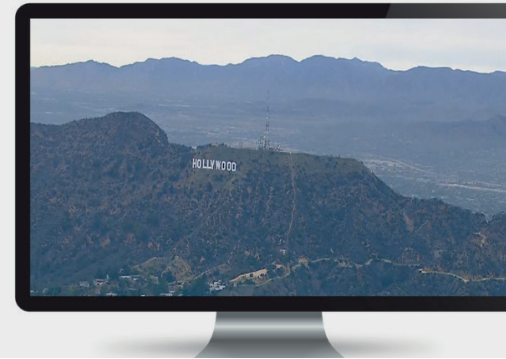# WORLDCAST GROUP

SURESTREAMER HELI

Reliable and Low Latency Video Communication for Public Safety Aviation

SureStreamer Heli is a redundant network access 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 Centers, and the first responders.

On a low and constant latency of less than 0.5 sec. over 4G/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 high-speed video encoding and the omission of channel bonding, the SureStreamer Heli ensures the lowest and constant latency achievable and significantly lower than traditional broadcast video codec solutions.

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.

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

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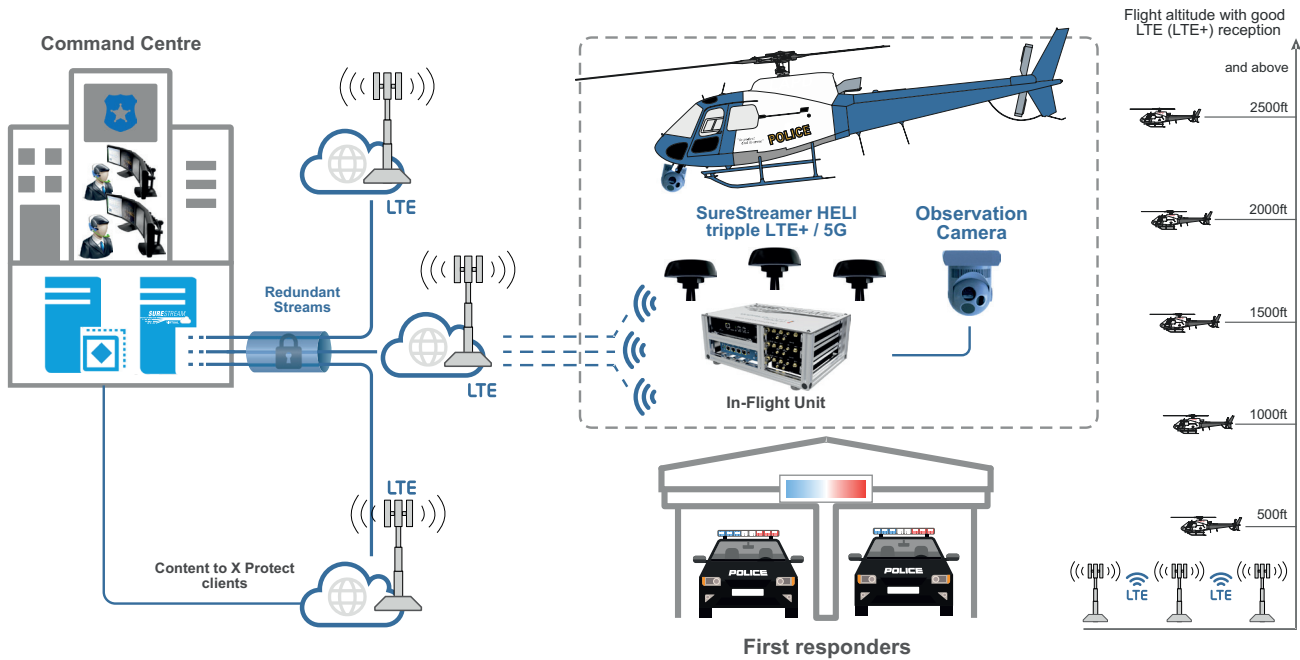
Low operating costs
By distributing content over affordable 4G/4G+/5G mobile internet links, the SureStreamer Heli replaces expensive Microwave installations or Satellite links. Using the unique tool-sets and features incorporated within SureStream, the SureStreamer HELI is compatible with any network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

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!

www.worldcast.group

Surestreamer Heli

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

"With the SureStreamer 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 form the pilot!"

Technical **Features**

SureStreamer Heli	
The SureStreamer Heli comes in a robust aluminium cage (352 x 248 x 145 mm)	
System Power	
DC Input Voltage	12 VDC powered by the on-board electrical system, wired to termination block Power consumption < 75 W (2 modems, SDI video); < 90 W (3 modems, SDI video)
Video	
Interface	1x SDI or HDMI Input/Output (determination of video interface at order time)
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 analoge stereo jack)
Audio Sampling Rate	AAC: 32/44.1 kHz, MP3: 32/44.1 kHz, G.711: 8 kHz
Network and Transport	
Streaming	Simultaneous Streaming over 2 or 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	Limited by the mobile network throughput. Video input on LAN: typical 1 x 2.5 Mbps, WAN with 2 modems: 2 x up to 4 x 2.5 Mbps (depends on selected protection level)
Air Interface (Modems)	2x 4G+ / 5G Modems as standard - LTE Bands: B1 -8, B12 - **14**, B17, 18, 19, 20, 25, 28, 29, 30, 32, 34, 38, 39, 40, 41, 42, 46, 48, 66 & 71 5G (NSA) sub 6 GHz: n1, 2, 3, 5, 7, 8, 12, 20, 28, 38, 41, 66, 71, 77, 78 & n79.
Required cellular Services	min. 2 SIM cards on different cell providers (for 2 modems, one on each)
Management	No field configuration required, remote setup via WEB GUI
Internet Access	Yes, wired

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