WORLDCAST SYSTEMS

POWERFUL
PERFORMANCE
CONTROL
SAVINGS
SERVICES

Mobile Video Link

H.264/265 Video Encoder

Encrypted Transmission

Connected to 2 separate
4G/5G networks

Ultra Low Latency
0.5 to 1s (glass-to-glass)

Portable for Mobile Operations

APT SureStreamer DRONE

A solution for reliable, low latency mobile video surveillance in Public Safety

APT SureStreamer DRONE is a mobile network extension which meets the needs of public safety professionals for mobile surveillance and video broadcasting in emergency situations.

This robust, low-latency transmission solution connects to your drone controller or ground station and enables high-quality, simultaneous video transmission between mobile surveillance forces (vehicles, drones and helicopters), control and command centers and first responders.

When every second counts, the low and constant latency of 0.5 to 1 second over 4G/5G networks (glass to glass) enables fast and efficient decision-making and action-taking, in real-time.

Easy to use by all personnel, the SureStreamer DRONE is ruggedized and lightweight, comes in a practical shoulder bag, and requires zero field configuration, boot and transmit!

Multiple Applications & Users

Drone   Helicopter   Police   Firetruck

Why Public Safety use **APT SureStreamer DRONE**

Ultra-low latency
Thanks to the TCP-free signal chain, the SureStreamer DRONE ensures the lowest latency achievable and significantly lower than traditional broadcast video codec solutions.

Ultra-reliable
SureStream is a streaming technology from Worldcast Systems based on diverse streaming sending multiple copies of your content stream across different mobile network carriers. SureStream achieves high stability of the IP connection, even under difficult circumstances. It enables real-time video transmissions while maintaining constant low latency and high video quality.

Ultra-secure
Utilizing secure VPN encrypted links for all transmissions over the public cellular network, end to end video is secure and safe from prying eyes.
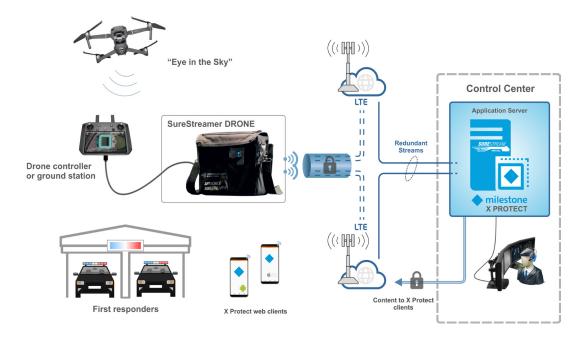
Low operating costs
By distributing content over affordable 4G/5G public internet links, SureStreamer DRONE functions as a replacement for expensive MPLS, Microwave or Satellite links. Using the unique tool-sets and features incorporated within SureStream, it is compatible with any network with the use of standard SIM cards.

Immediate and simple configuration
When on the field, users simply need to connect the device to their surveillance and communication gear (drone controller, ground station, bodycam, etc.), switch it on, and transmit video footage... real-time. Boot and transmit!

Drone Scenario High quality video transmission in less than one second!

"Eye in the Sky"

Drone controller or ground station

SureStreamer DRONE

First responders

X Protect web clients

LTE

LTE

Redundant Streams

Content to X Protect clients

Control Center

Application Server

milestone X PROTECT

"With the SureStreamer DRONE 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 drone pilot!"

Technical **Features**

APT SureStreamer DRONE	
The SureStreamer DRONE with H.265/H.254 video encoder comes in a compact shoulder bag. Weight with battery, modems and video encoder: ~2.5 kg / < 5.5 lbs	
System Power	
DC Input Voltage	12 VDC from LiPo battery and/or DC PSU
System Operating Time*	Typical 4 hours (can vary depending on additional USB load) *Aux battery can extend the operating time to above 6 hours
Video	
Interface	1x HDMI Input/Output
Resolution / Bitrate / Mode	HD and SD / 0.8 to 12Mbps / CBR, VBR
Encoding	H.264 Base to High Profile & H.265
Protocols	HTTP, RTMP, MPEG-TS, ONVIF, RTSP
Audio for Video Encoding	AAC, MP3
Audio Sampling Rate	Adaptive, 32k,44.1k, 48k, 64k, 96k, 128k, 160k, 192k
Network and Transport	
Streaming	Redundant Streaming over 2 Modems (APT 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. LAN: Video input typical 2.5 Mbps, WAN: 2x to 4x 2.5 Mbps (depends on selected protection level)
Air Interface (Modems)	2x 4G (LTE) Modems as standard (optionally LTE+ or 5G) - LTE Bands: EU & US: 1, 2, 3, 5, 7, 8, 20, 28, 38 & 40 - AU: 2, 4, 5 & 12
Required LTE Services	2 SIM cards on different mobile ISPs (one on each)
Management	No field configuration required, remote setup via WEB GUI
Internet Access	Yes, wired or wireless (WiFi IEEE 802.11g/n/b)

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

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