Drones and UAVs

Live Streaming for Emergency and Government Sector Services

The ability to live stream from drones back to a command and control center is a critical requirement of drone usage for the emergency services and public sector workers.

Drones and unmanned aerial vehicles (UAV) provide a cost effective and versatile eye-in-the-sky, especially when compared to helicopters, and are used in a variety of public safety scenarios from law enforcement to traffic monitoring, and from fire fighting to military grade applications.

Mobile Viewpoint is a global manufacturer of video streaming WMT encoding devices that can operate in conjunction with the drone. This enables operators to live stream video content back to a command center reliably, securely, with low latency, and in high-quality.

Typically the WMT encoders connect to the HDMI output of the hand held controller, or ground base station, and this HDMI connection provides a video stream from the camera on the drone. Encoders can also be mounted in the drones if a physical output of the camera exists and if it has the power to carry an external device. The encoders are lightweight, portable, ruggedized, battery operated and are typically carried by the drone operator in a specially modified backpack supplied from Mobile Viewpoint.

One major advantage of a Mobile Viewpoint solution is that all WMT encoders can be remotely managed. This allows remote operators in the control room to manage the device which frees-up the drone operator to concentrate on flying the drone. But it is also possible to send a return video stream back from the command center so that the operator can view on a separate screen or monitor, exactly what is being viewed on the VMS within the control room.

For more information please visit the Mobile Viewpoint website or contact us at sales@mobileviewpoint.com.

Summary of WMT Encoder Features for Drones and Public Safety:

- Can Live Stream over multiple 5G/4G/3G, Wi-Fi, LAN, Satellite back to command center
- Bonds together multiple SIM cards internally as a single connection for high reliability
- SIM cards can be from different network operators
- Full H.265 HEVC for maximum video compression (option for H.264)
- Encoders fully managed remotely by LinkMatrix, browser based management platform
- Video encryption availability to AES256 for secure transmission
- Full HD and 4K workflows
- Ruggedized, portable and battery driven encoders
- Encoder can act as a secure Wi-Fi hotspot
- Simultaneous 2-way ethernet connection allowing command center to use 3rd party applications such as drone control while live streaming
- Video return back to encoder from command and control center
- Full integration with existing Video Management Systems (VMS) within the command center