

MissionCaster™

Live UAS, Robotic and Remote Sensing Platform
Streaming Service



About Us...

We are experienced in the DoD and Entertainment Industries

- Founder of EchoStorm - Developed and delivered the first UAV video search engine for the DoD, Coalition Partners and DHS
- Spent 10 years managing all UAV video in Iraq and Afghanistan
- Founders of Columbus Entertainment - delivered online production management systems for film and TV
- Executive technology executive at Microsoft on the Xbox team
- Developer of the digital asset management system used at Lucasfilm on the production of Star Wars prequels
- Former Director of Video Engineering for Cox Communications - created Cox TV Connect - streams 500+ channels of live TV to 6M Cox Cable customers



The Gap

Without
MissionCaster

With
MissionCaster

No Connectivity:

- Without MissionCaster, there is no way to get the video out of the ground station to someplace useful such as the truck, cart or cloud

Video and Sensor Data

No Connectivity:

- Without MissionCaster, there is no way to get the video out of the ground station to someplace useful such as the truck, cart or cloud

UAS Ground Station:

- Many hundreds of feet from the cart, and much farther from truck
- Even if you bring a video encoder, there is no way to get power this far out from the truck and the video has no network to traverse

Equipment Cart:

- Deployed from truck (several hundred feet from truck)
- Contains Various Hardware Components:
 - ROV
 - UAV
 - Ground Robots
 - Ground Station
 - Network switch
 - Wi-Fi access point
 - HDTV
- Must be tethered to power

Generators:

- Power the truck and cart



Emergency Vehicle:

- Parks in vicinity of event



MissionCaster:

- Battery powered (20 hour battery)
- Local Wi-Fi Streaming
- 4G LTE Streaming

Local Storage:

- SD Card
- AES 256 Encrypted



Grand Sky Cloud
With MissionCaster,
all authenticated
users, regardless of
location have access to
live video through the
cloud

Mobile Users:

- Mobile users can access the video directly from the cloud or from MissionCaster Wi-Fi if close enough
- Users have access to archive and live video



Remote Users:

- Remote users can access the video and sensor data directly from the cloud



It's all about the data...

4th Amendment

Data Privacy. Also called information **privacy**, is the aspect of information technology (IT) that deals with the ability an organization or individual has to determine what **data** in a computer system can be shared with third parties.

Data Protection. controls how personal drone data is used by organizations, businesses or the government.

Chain-of-Custody. in legal contexts, refers to the chronological documentation or paper trail, showing the seizure, custody, control, transfer, analysis, and disposition of physical or electronic evidence.

Accountability. Trusted, 3rd party, independent auditor ensures rules are followed.



Cyber Security

Cyber Security. The body of technologies, processes and practices designed to protect the network, computers, software and drone data from attack, damage or unauthorized access.

Encrypted data in transit. All data must be encrypted when transmitted across networks to protect against eavesdropping of network traffic by unauthorized users.

Encrypted at rest. Data at rest encryption basically means protecting data that's not moving through networks. The protection in this case is offered via encryption.

Access Controls. Auditable, secure access is the act of ensuring that an authenticated user accesses only what they are authorized to and no more.