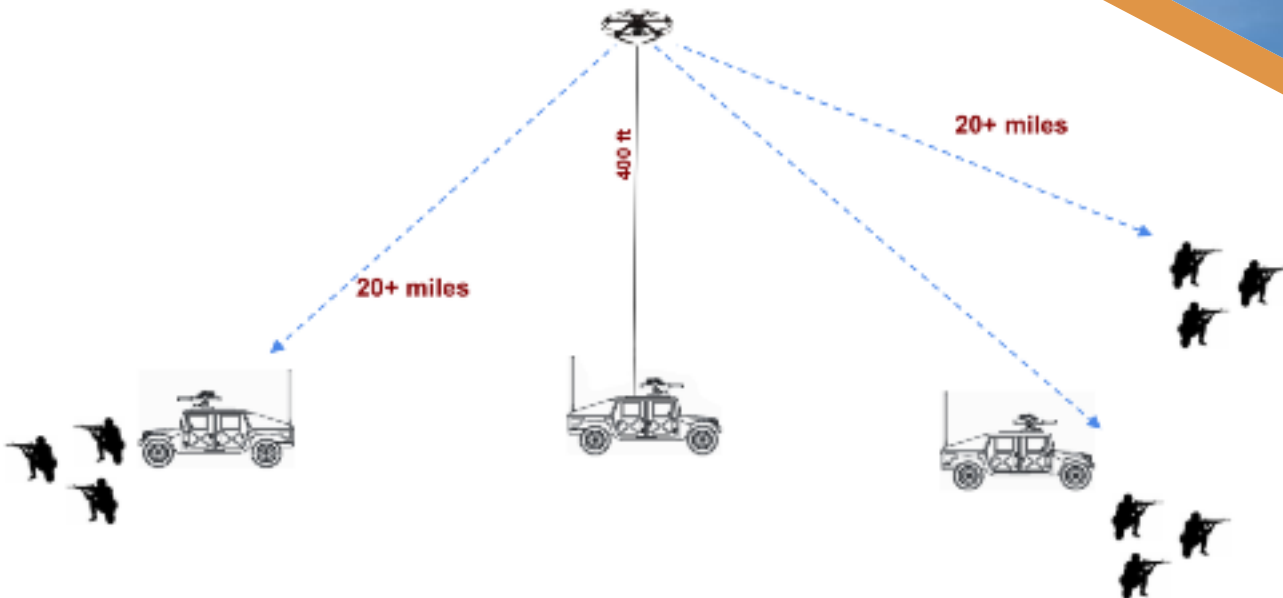




DELTA-M

VEHICLE-MOUNTED MILITARY SENSOR AND COMMS PLATFORM



PRODUCT OVERVIEW

Addressing the need for persistent aerial support to mobile ground forces below 1000 ft, the Delta-M is designed for the modern warfighter to carry remoted antenna arrays for broadband communications systems, cameras, laser tools, software defined radios, and other electronics at up to 400 feet above moving vehicles or stationary systems. Payload testing has included optics, communications, and weapons systems. Hosted payloads get power and data connectivity through an unhackable smart tether.

CAPABILITIES

In addition to extended tethered flight, the Delta-M can be launched from the ground or released from the tether mid-flight for 30 minutes of free flight or tethered and remain airborne for 8+ hours with an optional vehicle configuration and max speed of >25 miles per hour. Designed for modularity, the Delta-M supports applications spanning SIGINT, Cyber, EW, FMV, muzzle-flash detection, Battlefield and Ground Penetrating Radar, target designation, SATCOM, and tactical communications.

ADDITIONAL FEATURES

The Delta-M removes signal and data limitations with an optional configuration for bandwidth exceeding 10 or 40 Gbps over multiple channels and up to 4x4 MIMO antenna arrays for tactical communications. Equinox can provide additional support for custom antenna design, software defined radio development, and more. The Delta-M measures 53.7 in x 62 in x 28.3 in, weighs 41 pounds, and carries an optimal payload weight of 50 pounds.



EQUINOX INNOVATIVE SYSTEMS
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SPECIFICATIONS FOR DELTA-M

DRONE

Ready to Fly for Equinox Innovative Systems

Dimensions 53.7 in x 62 in x 28.3 in

Weight 41 lbs

Additional Payload 55 optimal / 110 max

Wind Speed > 25 mph

Flight control and networking:

Pixhawk-2 Option: Pixhawk 2 flight controller
HD video link
Optional combined drone and payload control and/or sensor data storage and video link display on a laptop (free flight and tethered)
RTK GNSS or Precision GPS

Optional 2nd control for payload

Configured for both free flight (30 minutes) and tethered flight (8+ hours)

Replace motors and propellers every 1000 flight hours

GROUND UNIT

Line or Generator Supply

16 kW @ 240 VAC

Tether with power supply and auto-tensioned reel with tether up to 400 ft

Optional daylight readable HD video display
Optional data-over-power (Ethernet) for telemetry and drone C2
Optional digital data transmission and/or Analog RF Over Fiber (RFoF)

DRONE PAYLOAD

Optional auto-tracking gimbal/servo

Options for top and bottom mounts
Optional camera verifying antenna alignment

Variable omni-directional antenna arrays supporting tactical users

Supports most communications solutions

Signals Intercept

Tactical Cyber

Battlefield RADAR

Ground Penetrating RADAR

Optics: Supports most GFE multi-camera configurations
Optional Solar-Blind Ultraviolet Camera 200-300nm
• Detects small arms muzzle flash and electrical shorts at 10,000 yd in full daylight

Optional LIDAR 16 channels
300,000 pps
100m range
360x20 degree fov

Optional laser designation and measurement tools including range-finder.



“Equinox offers the first fully functional drone-based inspection platforms, mobile communications towers and test systems with variable elevation control, ultra-high bandwidth, operation on the move & unlimited flight time.”



COMPANY OVERVIEW

Headquartered in the Washington D.C. area, Equinox Innovative Systems is a products and services company focused on drone-based communications and inspection systems with an emphasis on RF engineering. Equinox is changing the face of Defense and Public Safety C4ISR and Broadband Communications. Our drones replace towers when they fail, or are not there when needed. We provide more power to sensors and bandwidth to communications than ever before through the optimization of ultra-efficient aerial platforms and our patent-pending technology in an ultra-high bandwidth tether system.

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