

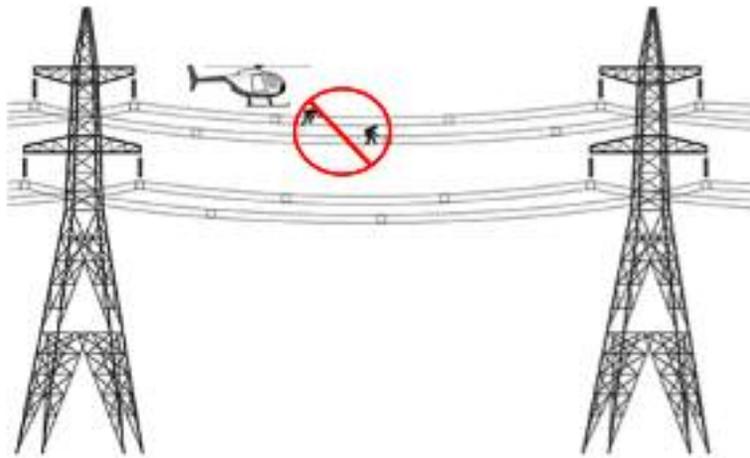


# INSPECTOR UV

**OPTICS PLATFORM FUSING TRUE SOLAR-BLIND UV  
WITH VISUAL AND THERMAL IMAGERY**



**VS**



## **PRODUCT OVERVIEW**

The Inspector Corona is an infrastructure inspection drone perfectly suited for electrical short and corrosion detection on power lines, power stations, cell towers, and refineries - presenting an alternative to expensive climbing and helicopter crews. Equipped with an optional power/data tether for lengthy operations, its payload capacity provides end users the option to use multiple high resolution cameras, a specialized solar blind UV camera, a 20+ Mp camera, HD video, LiDAR, and/or thermal imaging.

## **CAPABILITIES**

Designed around a compact solar blind UV corona camera with excellent performance between 200nm to 300nm, the Inspector can fly for 30 minutes of free flight or tethered to fly for 8+ hours for stationary or vehicle-based operation. Compact and efficient, the system can easily be operated with a 12A 240 VAC generator in the field and can come with multiple options including high resolution, thermal, HD video cameras in addition to its core component SBUV corona camera.

## **ADDITIONAL FEATURES**

The Inspector Corona measures 31 in x 38 in x 21.7 in, weighs 10.3 pounds, is able to carry max payload of 33 pounds, and can fly 150m on its tether above a stationary or moving vehicle for more than 8 hours without landing. Data transmission in the tether eliminated the need to land and empty or change SD cards so the drone can fly the entire work day without landing.



**EQUINOX INNOVATIVE SYSTEMS**  
[www.equinoxinnovativesystems.com](http://www.equinoxinnovativesystems.com)

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# SPECIFICATIONS FOR INSPECTOR CORONA

## DRONE

Ready to Fly for Equinox Innovative Systems

**Dimensions** 31 in x 38 in x 21.7 in

**Weight** 10.3 lbs

### Flight control and networking:

**DJI Option:** DJI A3 Flight controller  
DJI Light Bridge 2  
RTK-G for precision timing and location

**Pixhawk-2 Option:** Pixhawk 2 flight controller  
Non-DJI FPV 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  
Precision GPS

### Optional 2nd payload controller

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

Optional configuration for operation above a moving vehicle

## GROUND UNIT

**Line or Generator Supply**  
12A @ 240 VAC

**Tether with power supply and auto-tensioned reel with tether up to 150m**

Optional HD video display  
Optional data-over-power (Ethernet) sensor data storage on a laptop

## PAYLOAD

**Cameras:** (Options for one or two)

### Solar-Blind Ultraviolet "Corona" Camera

200nm-300nm  
800 x 800 pixel resolution

### Digital Still Camera

30x optical zoom  
1080p/60 Video  
20.4MP Exmor R CMOS sensor  
High speed/quality processor designed for difficult lighting

### HD Video Camera

4K HD Resolution  
12x optical zoom  
Video recording capability and media storage systems  
Back-illuminated sensor  
Focal distance of 9.3-111.6 millimeters  
Image stabilization technology  
Auto control range shutter speed of 1/8-1/10000 with flash

### Thermal Imager

640 x 512 radiometric imager  
Operating on less than 1 watt of power, via a USB 2.0 connection  
Real-time radiometric recording

**Default: Configured for 3D photogrammetry**

### Optional LIDAR

16 channels  
300,000 pps, 100m range  
360x20 degree FoV

**Sensor controller and data storage module**

### Gremsy H3 Gimbal

Optional H11 or H16

**Optional data storage on the ground via tether to eliminate SD card capacity limitation**

*"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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443.822.0952 • COLUMBIA, MARYLAND

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