



PROTECTION

MILITARY ISR

BORDER SECURITY

CRITICAL FACILITY

Offering custom, multirotor, tethered aircraft systems for a variety of applications:

- Electro-optical and infrared video support of firefighting and search and rescue operations
- Provision of WIFI and cellular service during the events and emergencies
- Surveillance and alerting during force protection and border enforcement actions
- Standoff coverage of public assemblies and events, law enforcement actions, force protection, and critical facility protection

Flexible payload capacity:

- E/O with 40x zoom
- High res thermal sensor
- Wide-area lighting module
- Radio relays
- Radars

Performance

- Portable, two case configuration
- Altitude up to 400 feet
- Payloads up to 20 lbs with Quad-8, 8lbs with Quad-L
- Infinite flight time



GROUND POWER UNIT

Dimensions and Weight		Voltage	
Box Dimensions	31.3 x 20.4 x 15.5" / 79.5 x 51.8 x 39.4 cm	Tether Voltage (ground side)	400-500V (Compensated)
Weight	70 lbs (31.7 kg)	Tether Voltage (drone side)	400V (Regulated from ground)
Power		Drone Voltage	50V
Input Voltage	180-264 VAC (with Quad8) 85-264 VAC (with QuadL)	Operation	
AC Power Need for Drones	3500W Quad 8 1800W Quad L	Setup Time	Less than 5 minutes
Cable		Portability	Telescopic handle and wheels
Cable Length	Up to 400 feet	Back Up Battery	12V 5Ah Back Up Battery
Conductor Cables	2 x 22 AWG Mil-Spec M22759/19	Reel	Auto tension reel mechanism
Fiber Optic	1 x Singlemode	Interface	
Voltage Rating	600V	Connectors	1x Rj45 for communication 1x USB for charging 1x USB for debug

TETHERED DRONE SYSTEMS

QUAD-8

Weight	
Maximum Gross Weight	20 kg / 44 lb
No Payload Weight	10.89 kg / 24 lb
Dimensions	
Unfolded Diameter (excluding props)	740 x 740 mm
Unfolded Diameter (including Props)	1240 x 1240 mm
Folded Diameter	530 x 530 mm (21x21")
Height	430 mm (17")
Propellers	22 inch CF
Back-up Battery	
Backup Battery Flight Time	6-12 minutes (depends on payload)

QUAD-L

Weight	
Maximum Gross Weight	10.9 kg / 24 lb
No Payload Weight	7.3 kg / 16 lb
Dimensions	
Unfolded Diameter (excluding props)	850 x 850 mm
Unfolded Diameter (including Props)	1400 x 1400 mm
Folded Diameter	500 x 500 mm (20x20")
Height	450 mm (17.8")
Propellers	28.2 inch CF
Battery	
Backup Battery Flight Time	6-12 minutes (depends on payload)

COMMON SPECS

Carry Case		Flight Operations	
Case Exterior	26.50 x 26.50 x 25.25 in (67.3 x 67.3 x 64.1 cm)	Hovering Accuracy	Vertical: ±0.5 m (GPS)
Case Interior	24.00 x 24.00 x 24.00 in (61 x 61 x 61 cm)		Horizontal: ±1.5 m (GPS enabled)
Case Weight with drone	48 lbs (21.8 kg) – Quad-L 56 lbs (25.4 kg) – Quad-8		Max Pitch Angle
Payload Interface		Ascend and Descend Speed	Ascend: 0.7 m/s (137 fpm) Descend : 0.5 m/s (98 fpm)
Comm	<ul style="list-style-type: none"> RJ45 HDMI (Optional) Serial (Optional) 	Moving Radius	20 meters geofence (65.5 ft)
Power	<ul style="list-style-type: none"> 5V (45W) 12V (72W) 24V – 48V or high power optional 	Environment	Max Wind Resistance 30 mph (gust) Operating Temperature -20°C to 50°C (-4°F to 122° F) Can fly in rain up to 7.6 mm (0.30 in) per hour.
		Supported GNSS	GPS/Glonass/Beidou/Galileo

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