



# MicroKestrel

## ULTRALIGHT WIDE-AREA MOTION IMAGERY FOR GROUP 1 TETHERED UAS



A miniaturized version of the Kestrel aerostat-based system, MicroKestrel delivers wide-area motion imagery (WAMI) from tethered Group 1 unmanned aircraft systems (UAS). This micro-WAMI system provides 180- or 360-degree coverage of an area up to 20 square kilometers in size.

Available in short- and long-range versions, MicroKestrel supports the user with uninterrupted monitoring of live and recorded imagery. Powerful and portable, MicroKestrel delivers unparalleled situational awareness at a moment's notice.

- **BASE PROTECTION**
- **OPERATIONS OVERWATCH**
- **MOBILE UNIT SA ENHANCEMENT**
- **BORDER SECURITY**
- **EVENT SECURITY**
- **HUMANITARIAN ASSISTANCE**

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### ► PERFORMANCE

- Operational Altitude: 200 ft – 400 ft (60 m – 120 m) AGL
- MicroKestrel-L  
Area of Coverage: 2.5 km radius, 10 sq km at 200 ft (60m) AGL per pod
  - People resolvable to 1km
  - Significant movers detection to 2.5km
- MicroKestrel-S  
Area of Coverage: 300 m radius, 0.15 sq km at 200 ft (60m) AGL per pod
  - People resolvable to 300m
  - Small objects (ex. backpacks) resolvable to 100m
- Angular Coverage: 180 degrees per pod
- Rendered Image Stability: < 1 pixel
- Digital Zoom: Yes
- Refresh Rate: 5 Hz
- Viewer Windows: 5 real-time plus 5 forensic on optional ground station
- Onboard Archive Length: Up to 4 hours
- Imagery Transmission: Control centers, mobile devices
- Internal Processing: Compact embedded real-time processing includes georegistration, stabilization, and mosaic stitching, with DVR-like streaming of stored imagery

### ► PAYLOAD SIZE, WEIGHT, AND POWER

- Sensor Size: 11.8 in L x 11.4 in W x 3.9 in H (30 cm x 29 cm x 10 cm)
- Sensor Weight: < 5 lbs (2.1 kg)
- Sensor Power: < 80 W
- Sensor Voltage: 12 VDC

### ► OPTIONS

- Training, warranty support, and 24/7 helpdesk support available