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.

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 Area of Coverage: Up to 3 km radius, 9.8 sq km at 200 ft (60m) AGL per pod
  - Individuals resolvable to 1 km
  - Moving object detection to 3 km
- Angular Coverage: 180 degrees per pod
- Digital Zoom: Yes
- Refresh Rate: 5 Hz
- Viewer Windows: 5 real-time and/or 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: 5.5 lbs (2.5 kg)
- Sensor Power: < 70 W
- Sensor Voltage: 12 VDC

▶ GROUND/SENSOR CONTROL STATION (GCS/SCS)

- Sensor Control and Exploitation: Customizable expeditionary laptop for sensor command and control, viewing area of coverage, viewing and controlling WAMI streams, and setting watchboxes
  Imagery streams are MISB compliant and can be easily integrated into other Common Operating Pictures (COPs)

▶ OPTIONS

- Platform Compatibility: Tethered UAS
- Mounting Options: Adaptable as needed
- Datalink: IP-based radio or 4G/5G relay, at tether base
- Operations Support: Full-time operation, maintenance, and repair at deployed sites
  Training, warranty support, and 24/7 helpdesk support available

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