



IMPOSSIBLE®

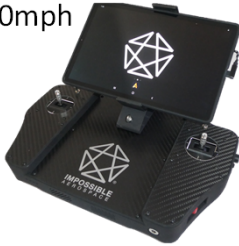
Impossible Aerospace US-1 Long-Duration Unmanned Aircraft



The US-1 is a long-duration unmanned aircraft engineered for the demanding first responder mission. The patent pending design integrates the power cells into the airframe, delivering nearly 3X the flight time of imported drones. The aircraft is certified to carry the FLIR DUO PRO or a higher performance WIRIS thermal and lowlight 30X optical zoom payload. The aircraft is engineered, manufactured and supported in Santa Clara CA.

US-1 AIRCRAFT

- 78-minute continuous flight with standard payload
- External Dimensions 26" x 26"
- Weight 18.5 lbs. Shipping Case 30" x 30" x 18"
- Max Speed: 45mph Wind Gusts: Up to 30mph
- Foldable Shock Absorbing Landing Gear
- Battery Type: Lithium Ion
- Fast Charge: 0-75% 46 minutes
- Real time 4GLTE health monitoring
- Full 2 Year tip-to-tip warranty
- Engineered and assembled in USA



GROUND CONTROL STATION

- Professional grade, carbon fiber design
- Direct access to key functions
- 10.5" Samsung Galaxy S5E Tablet display
- Super AMOLED daylight screen
- Strap or tripod mount
- HDMI output for distributed video
- No geofencing restrictions in IAGS Software
- Multiple autonomous mission modes
- Auto take off and land

Visible and Thermal Camera Options

Standard Range

Long Range

Manufacturer	FLIR DUO PRO R 78-minute flight time	Workswell Security 70-minute flight time
Thermal Resolution	640 x 512	800 x 600
Thermal field of view (narrower is better)	25 mm: (FOV = 25° x 20°)	35 mm: (FOV = 21.2° x 16.2°)
Thermal sensitivity (lower is better)	0.05°C (50mK)	0.04 °C (40mK)
Visible camera sensitivity (lower is better)	N/A	0.0008 lux
Visible camera zoom and field of view	56° x 45° No optical zoom	30X Optical Zoom Ultra zoom 2.3° wide 63.7° 129.0 mm – 4.3 mm

Designed, Engineered and Assembled by Impossible Aerospace Corporation, California

Specifications subject to change

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