

# UAVISUS

## W1



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# UAVISUS W1

Introducing the W1 — a perfect blend of advanced technology and precision engineering. This fixed-wing VTOL drone is designed for wildfire detection and real-time monitoring, equipped with an ADS-B module for enhanced safety and situational awareness. It delivers unparalleled performance and reliability. Experience the future of aerial intelligence with W1.



**W1-Bicolor**



**W1-Grey**

**2.3m**

### Propeller

Forward-tilting design reduces drag, improves efficiency, and optimizes vertical takeoff and cruise performance.

### Battery

### Tail Wing

Designed with a modular structure, it enhances stability and control for extended operations, while the foldable tail wing saves space during transport.



**ADS-B**

**7.8 kg**

### Tri-sensor Gimbal

### Wing

Blended-wing-body structure, Kevlar + PMI composite materials for lightweight strength and impact resistance.

**150 mins**



#### Visible light camera of the electro-optical pod

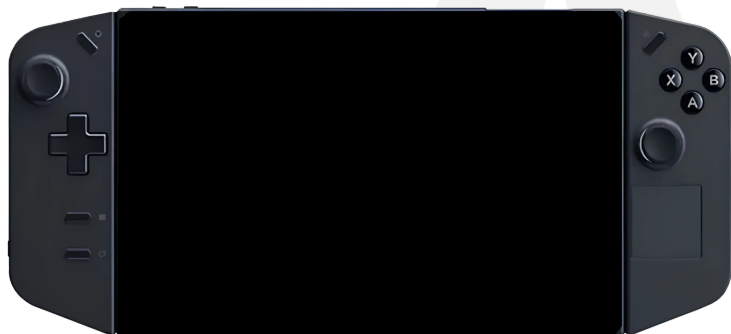
Effective pixels	2 million
Lens focal length	4.7 mm ~ 47 mm
Optical zoom	10X
Digital zoom	3X
Target detection distance	1200 m (Pedestrian), 1500 m (Vehicle)
Target recognition distance	450 m (Pedestrian), 600 m (Vehicle)
Target verification distance	200 m (Pedestrian), 450 m (Vehicle)

#### Thermal imaging camera of the electro-optical pod

Thermal imaging sensor	Uncooled vanadium oxide
Lens focal length	18 mm
Resolution pixels	640 × 512
Target detection distance	1300 m (Pedestrian), 2300 m (Vehicle)
Target recognition distance	800 m (Pedestrian), 1000 m (Vehicle)
Target verification distance	300 m (Pedestrian), 500 m (Vehicle)

#### Laser ranging unit of the electro-optical pod

Human eye safety level	Class 1M (IEC 60825-1:2014)
Measurement accuracy	± 1.0 m
Measuring range	5 m ~ 1200 m (12 m diameter, vertical surface, 20% reflectivity)



## **HGS500 Handheld Control Terminal**

The handheld control terminal is designed for operating and monitoring the activities of the fixed-wing VTOL drone. It offers a 12-hour operating time and functions reliably in temperatures ranging from 0 to 40°C, ensuring seamless performance in various environments.



## **Intelligent Battery**

Equipped with a high-performance lithium battery, it offers an impressive flight time of up to 150 minutes, ensuring reliable and extended operations.

## V-PAC Backpack Ground Station

Designed for portability and efficiency, it features a 5-hour endurance, weighs 7.6 kg, and supports 30 km image transmission. Equipped with physical layer encryption and adjustable signal bandwidth options of 4, 8, 10, 14, and 20 MHz, it ensures secure and reliable performance.

