VESPER ISR

MILITARY GRADE MICRO UAV

The Vesper UAV from Vantage Robotics provides field operators with American-made ISR, extended flight time, unmatched low light performance, and a 3-axis stabilized tri-sensor payload. This complete aerial reconnaissance system was designed to solve the pain points of operators utilizing aerial data collection in the field today.

Our light, rugged, and truly portable stealth drone is backpack ready, easy to use, and has been tested with thousands of flight hours. Vesper's modular design and uncompromising build quality meet the needs of a range of mission-critical operations at a moment's notice.

CAPABLE CAMERA

48× zoom, 4K starlight EO, 320 or 640 IR

EXCEPTIONAL ENDURANCE

Up to 55 min/ 40 km flight endurance

PORTABLE

1 kg / 2,300 cm3 packed

STEALTHY

Unseen and inaudible at 50 m against terrain

MODULAR

Quick assembly and reconfiguration

EXTENSIVE RANGE

5 km GCS video range

SECURE

AES-256 encryption / Made in the USA / NDAA compliant/ Blue UAS cleared

VANTAGE ROBOTICS

sales@vantagerobotics.com
+1.510.957.5095

VESPER

MICRO UAV QUADCOPTER SPECIFICATIONS

AIRCRAFT

- Up to 55 min flight time with Recon Rotor Set
- Up to 30 min flight time with Shrouded Rotor Set
- 710 g AUW
- 18 m/s / 40 mph / 35 kts speed
- <37 dBA at 25 meter range
- Operational in 30 kt wind
- -20° to 45° C operational temperature range
- IP53 ingress protection
- Redundant GNSS, VIO and optical flow for position control
- Downward facing laser altimeter up to 30m range accuracy

MODULARITY

- Battery attaches magnetically and swaps in seconds
- Multiple rotor set options: Shrouded for indoor and flight near people, Recon for endurance, stealth and speed
- Field replaceable gimbal can be swapped in minutes
- Up to 64GB internal memory and external microSD card up to 512GB

GIMBAL & CAMERA

- Dual EO sensors + thermal
- 3-axis stabilized gimbal
- User controllable +30° – -90° gimbal pitch control
- Dual 4K Sony EO image sensors, 3840 x 2160p x 8MP still images
- <0.01 lux low light capability
- 48× combined optical and digital zoom (3.5° - 63° HFOV)
- 6 mm f/1.0 navigation lens
- 25 mm f/2.4 telephoto lens
- 1080 or 4K MPEG-4 video recording format
- Thermal sensor: 320 x 240p and 640 x 480p options

PORTABILITY

- Deployable within 90 seconds
- IP67 waterproof field case
- Withstands 90 kg crush and 1m drop in case
- 1 kg / 2,300 cm3 packed in Field Case
- Watertight, dust-proof, dent-proof transport case, with hasps and foam lined interior

SECURITY

- Blue UAS cleared and NDAA compliant
- Designed, sourced, and built in USA
- AES-256 encryption on all communications and data storage
- Bonded construction prevents tampering
- Remote-ID optionally available

COMMUNICATIONS

- 5 km max LOS range with standard antenna
- Frequency hopping and adaptive modulation for robust link in congested environments
- 1.8 GHz or 2.4 GHz radio options
- Selectable 4 or 8 MHz bandwidths
- WiFi for short range rapid data transfer to GCS

COMPATIBILITY

- Supports RAS-A, MAVLink, QGC, ATAK, DroneSense, and Cape
- Compatible with Vantage Vision2 GCS and other RAS-A compliant controllers

VANTAGE ROBOTICS

sales@vantagerobotics.com
+1.510.957.5095