ISR



Warfighter Electronic Bridge

WEB™

A Universal GCS for multi-domain platforms, including ground robotics, offering a versatile and secure control station.

In development with Booz Allen Hamilton, Red Cat has implemented an, “industry-first”, UAS Tool interface, through ATAK, that provides seamless integration and mission-management capabilities, enhancing efficiency, cognitive load, and situational awareness.



FEATURES

- High-Brightness Display
- Quick Attach / Detach Antennas
- Radio Backhaul via Nett Warrior Connector
- Programmable Joysticks and Switches
- Power Out through USB-C
- HDMI Video Out
- Electro-Mechanical Interface for Future Accessories
- User Interface: ATAK UAS tool, QGC

SPECIFICATIONS

- Weight: 3.6 lbs (1.54 kg) with 220 Wh Battery
- Video Downlink Resolution: 1080p
- Encryption: AES-256
- Frequency Bands: M1-M6 (1625 MHz to 2510 MHz)
- Channel and Band Hopping: Yes
- Latency: <250ms
- Software OS: Android
- Battery Life: 12 hours (same battery as Aircraft)

BW _BLACK WIDOW



BY RED CAT AERIAL

ARACHNID™

FAMILY OF SMALL ISR &
PRECISION STRIKE SYSTEMS

RED CAT AERIAL

version 261020

BW

BLACK WIDOW™

BY RED CAT AERIAL

ISR

The Future of All Domain Operations

REDCATAERIAL.COM

:: INTELLIGENCE, SURVEILLANCE, AND RECONNAISSANCE_



RED CAT AERIAL

The Black Widow™ Short Range Reconnaissance drone is a U.S.-manufactured, dual-use system delivering critical ISR for defense and security, built with a modular, field-repairable architecture and purposefully engineered to protect those in harm's way.

OFFICIAL AWARD ::
U.S. ARMY SHORT RANGE RECONNAISSANCE PROGRAM WINNER

CERTIFIED BLUE UAS





BLACK WIDOW™

HIGH-RESOLUTION EO/IR IMAGERY FROM INTEGRATED HADRON 640R+ BY TELEDYNE FLIR



BLACK WIDOW DAY IMAGE



BLACK WIDOW NIGHT IMAGE

ARACHNID™ / FAMILY OF PORTABLE, LOW-COST, FIELD-REPAIRABLE, & RECOVERABLE ISR AND PRECISION STRIKE SYSTEMS

FEATURES / OPTIONS

- New 3-Axis Gimbal delivers advanced Electronic Image Stabilization across Pitch, Roll, and Yaw
- Doodle Hex-Band Radio with frequency-stepping for EW Resilience
- Integrated FLIR Prism AI software stack
- Optional Reveal Farsight 3D Mapping Software
- Optional Palantir Visual Based Navigation (VNAV)
- Forward-looking obstacle avoidance
- Modular Arms and Primary / Secondary Payloads
- High-processing power with Qualcomm RB5 Chip for A.I. Capabilities
- Quiet Acoustic Signature
- Optional Aided Target Recognition Software by Sightline Intelligence (Athena AI)
- Rucksack-Portable and Field-Repairable

SPECIFICATIONS

Aircraft
- Weight: 4.26 lbs (1.93 kg)
- Flight Time: 50+ minutes*
- Max Altitude: 4,000+ ft AGL
- Speed: 18 m/s (40 mph) Range: Up to 6.8 miles (11 km) with maintained operator line-of-sight

Sensor
- System: Ocellus 3CP
- IR Camera: FLIR Boson 640 R+
- Telephoto: 35mm, F2.4, 13º FOV, 12 MP
- Wide Angle: 8mm, F2.8, 52º FOV, 16 MP
- 3 Degrees of Freedom: Roll ±35º, Pitch ±5º, Yaw +45º/-120º
- Backwards Compatible for Existing Systems

Processor
- Type: Qualcomm RB5
- GPU: Adreno 650
- CPU: Eight (8) Kryo 585 Cores

GPS Module
- Options: Civilian GNSS & Dual Band L1/L2

*standard atmospheric pressure

BW

BLACK WIDOW™

A RED CAT COMPANY