AEROVIRONMENT HAS DELIVERED THE VAST MAJORITY OF ALL UNMANNED AIRCRAFT IN THE U.S. DEPARTMENT OF DEFENSE INVENTORY.*

35,000+
UNITS DELIVERED WORLDWIDE

4 MILLION+
ACCUMULATED UAS FLIGHT HOURS (EST)

50+
ALLIED NATIONS USE OUR UAS, UGV & SUPPORT SERVICES

WHO WE ARE

At AeroVironment, we are relentless in our efforts to deploy technology in ways that push beyond the realm of what’s possible. With each innovation, we are always striving to broaden our customers’ horizons and elevate their capacity to make smarter, quicker decisions.

We develop technologies and solutions that enable customers to operate beyond the horizon, enabling them to see the world in powerful new ways, complete ever-more ambitious missions and overcome seemingly intractable challenges. By pushing the boundaries of future-defining technologies, we move beyond what is currently possible to create a powerful, interlocking family of products spanning missions, domains and worlds.

MULTI-DOMAIN ROBOTIC SYSTEMS
AeroVironment’s Switchblade® tactical missile systems (TMS) close the gap between observation and action, giving troops the ability to identify threats and precisely deliver a lethal payload with minimal collateral damage. Their small size and low acoustic, visual and thermal signature make them difficult to detect or track, even at close range.

Rapidly deployable and highly maneuverable with high-performance optics and scalable munition payloads, our loitering missile systems enable warfighters to easily launch, track and engage beyond-line-of-sight targets including light armored vehicles across domains. These qualities made the Switchblade the “kamikaze drone” of choice in Ukraine.
**SWITCHBLADE™ 600 LOITERING MISSILE**

- **Dimensions**: Length: 50 in (1.3 m)
- **Range**: 40+ km
- **Endurance**: 40+ min
- **Speed**: Cruise: 70 mph, Dash: 115 mph
- **Effects on Target**: Anti-armor & anti-personnel effects

**KEY FEATURES**
- Patented wave-off feature & recommit capability
- Intuitive touch tablet controller
- < 10 minute system setup & launch

**ALL-IN-ONE, MAN-PORTABLE, ANTI-ARMOR, SMART MISSILE SYSTEM**
- Best-in-Class Target Acquisition Sensor Suite
- Anti-Armor Warhead
- Self-Contained Tube-Launcher
- Mission Planning on Tablet Controller
- Integrated Training Simulator (IFC)
- Antenna & UCCS

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**SWITCHBLADE™ 300 LOITERING MISSILE**

- **Dimensions**: Wingspan: 27 in (68.6 cm), Length: 19.5 in (49.5 cm)
- **Range**: 10 km
- **Endurance**: 15 min
- **Speed**: Cruise: 63 mph, Dash: 100 mph
- **Effects on Target**: Anti-personnel effects

**GROUND CONTROL SYSTEM**
- Interceptable with current ground control system for Puma™ AE, Raven® & Nemo™
- Control method: Self-contained launcher for ground, air & maritime
- LETHALITY: Precision strike with anti-armor warhead

**TMS**

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**BLACKWING™ LOITERING RECONNAISSANCE SYSTEM**

- **Dimensions**: Wingspan: 27 in (68.6 cm), Length: 19.5 in (49.5 cm), Diameter: 3 in (7.6 cm)
- **Range**: 40+ km
- **Endurance**: 15 min
- **Speed**: Cruise: 63 mph, Dash: 100 mph
- **Effects on Target**: Anti-personnel effects

**SENSORS**
- Integrated EO/IR sensors—day/night operations

**LAUNCH METHOD**
- Underwater-to-air delivery canister, tube, MPL

**KEY FEATURES**
- Rapid response ISR
- C3 tactical data relay from UAS to UUV
- Modular payload

**MPL MULTIPACK LAUNCHER**

- **Dimensions**: 36 in O.D. x 30 in W x 36 in H
- **Weight**: 350 lb (empty), 160 lb (loaded)

**CONFIGURATIONS**
- 6-pack Standard (Alternatively for 2-20 AURs possible)

**Mounting**
- Hold downs for vehicle or shipboard use

**Power**
- Solar panel & internal battery, Shore/TacVeh power augments to maintain internal operating temps

**Control**
- 100 ft remote operation control cable (FOB/COP ops cell bunker/buildings, tactical vehicles, ship CIC)

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**KEY FEATURES**
- Compatible platforms: Switchblade™ 300, Blackwing™
- Rapid Reload — 30 seconds per round
- Low observable remote ops
- Tactical vehicle/MAAP
S2S provides an integrated multi-domain ISR and precision strike capability for increased mission autonomy and efficacy, combining the extended range of Puma™ SUAS (shown above), or the JUMP® 20 MUAS (shown left) with organic Air-Launched Effects (ALE) of the Switchblade ® 300 loitering missile system. This end-to-end solution provides the warfighter with greater time on station to conduct persistent ISR and prosecute multiple targets with lethal effects.

**Switchblade® 300 Sensor to Shooter Kit**

Switchblade® Sensor to Shooter (S2S) combines the superior ISR capabilities of Puma®, Raven®, and Wasp® small unmanned aircraft systems (SUAS) with the precision strike capabilities of the Switchblade loitering missile system. Through S2S software, target coordinates are instantly transferred from the SUAS to Switchblade, reducing engagement timelines and cognitive load on the operators. S2S provides Switchblade operators with real-time video downlinks for a clearer view of the area of operation and the ability to scene-match SUAS ISR and Switchblade 300 camera feeds on one screen.

The Switchblade 300 Sensor to Shooter Kit allows operators to quickly update FalconView™ with the S2S software on a ruggedized laptop, such as a Toughbook® CF-33, and connect to the included pDDL™. The Switchblade 300 operator simply taps the screen to initiate machine-to-machine target coordinate transfer, creating an automated mission plan and confirming launch sequence.
SMALL UNMANNED AIRCRAFT SYSTEMS

Over the last decade, members of AeroVironment’s growing family of small unmanned aircraft systems (SUAS) — Puma™ LE, Puma™ 3 AE, Raven®, Wasp AE, Quantix™ Recon and VAPOR™ Helicopter UAS — have been adopted by more than 50 allied nations.

The reason for their appeal is straightforward. Under battlefield conditions, they have proven themselves ideal for low-altitude intelligence, surveillance and reconnaissance missions. Lightweight, rugged and easy-to-operate, they deliver real-time color and/or infrared imagery to ground control and remote viewing stations. With their enhanced communications and interoperability, they are a critical building block for multi-domain operations.
**PUMA LE** LONG Endurance

**PUMA 3 AE ALL ENVIRONMENT // RQ-20C**

**WEIGHT**
- 23.5 lb with Mantis™i45/i45 N (10.7 kg)
- 31.4 lb with Mantis™i45/i45 N (7 kg)

**DIMENSIONS**
- Wingspan: 9.2 ft (2.8 m)
- Length: 4.6 ft (1.4 m)

**SPEED**
- Cruise: 49 km/hr (26 kts)
- Dash: 76 km/h (41 kts)

**OPERATING ALTITUDE**
- 300–500 ft (91–152 m) AGL, typical
- Max. launch 10K ft (3,048 m) MSL

**GCS**
- Crysalis ™ and legacy common GCS

**LAUNCH METHOD**
- Hand-launched, optional rail or bungee launch

**RECOVERY METHOD**
- Autonomous or manual deep-stall, land or sea

**LINK RANGE**
- 20 km, 60 km with LRTA

**ENDURANCE**
- 2.5 hr with Mantis™i45

**TOTAL PAYLOAD CAPACITY**
- 4 lb (1.8 kg)

**INTEROPERABLE LRU SHARING ACROSS PUMA™ PRODUCT LINE**
- Puma™3 AE and Puma™LE share many of the same Line Replaceable Units (LRUs), retaining similar operation, transport and logistics support within the Puma™ family.

**PUMA™ KITS AND ACCESSORIES**

**COMPATIBLE WITH PUMA™ PRODUCT LINE**

**COMPATIBLE WITH PUMA™ 3 AE ONLY**

**COMPATIBLE WITH WASP®**
- Advanced EO/W imaging system
- 5 MP EO camera
- LWR camera for right operations

**COMPATIBLE WITH RAVEN®**
- Daylight & thermal imaging system
- 5 MP EO camera imager
- Laser illuminator

**COMPATIBLE WITH PUMA™ 3 AE AND PUMA™ LE**

**MANTIS™ IMAGING PAYLOAD SENSORS**
- Maximum visibility during night & low-light ISR
- Wide & narrow LWR-camera imagers
- 5 MP monochrome Low Light camera
- Enhanced laser illuminator

**SUAS**

**COMBAT 200 Battery**

**Payload capacity is reduced by 0.3 lb (140 g)**

**WEIGHT**
- 23.5 lb with Mantis™i45/i45 N (10.7 kg)
- 15.4 lb with Mantis™i45/i45 N (7 kg)

**DIMENSIONS**
- Wingspan: 15 ft (4.6 m)
- Length: 7.3 ft (2.2 m)

**SPEED**
- Cruise: 47 km/h (25 kts)
- Dash: 76 km/h (41 kts)

**OPERATING ALTITUDE**
- 300–500 ft (91–152 m) AGL, typical
- Max. launch 10K ft (3,048 m) MSL

**GCS**
- Crysalis ™ and legacy common GCS

**LAUNCH METHOD**
- Hand-launched, bungee or vehicle launch

**RECOVERY METHOD**
- Autonomous or manual deep-stall, land or sea

**LINK RANGE**
- 20 km, 60 km with LRTA

**ENDURANCE**
- 6.5 hr with Puma™ “Smart 2500 Battery”

**TOTAL PAYLOAD CAPACITY**
- 5.5 lb (2.5 kg)**

**INTEROPERABLE LRU SHARING ACROSS PUMA™ PRODUCT LINE**
- Puma™3 AE and Puma™LE share many of the same Line Replaceable Units (LRUs), retaining similar operation, transport and logistics support within the Puma™ family.

**MOTORS/PROPS**
- GPS/INS
- Batteries
- Avionics
- GCS Servo
- UBC
- Laptop

**KEY FEATURES**
- 6.5 hours of ISR capability & full-motion video in all environments
- Support two flights with 2-case mission packout
- Dedicated secondary payload bay with power supply & Ethernet

**COMPATIBLE WITH PUMA™**
- For environmental scenarios where hand launch is not preferred
- Setup 6 operational in less than 10 min
- Multiple ground fastener options securely installed in a variety of soil types or mounted to low, immovable objects

**COMPATIBLE WITH WASP®**
- Advanced EO/W imaging system
- 5 MP EO camera
- LWR camera for right operations

**COMPATIBLE WITH RAVEN®**
- Daylight & thermal imaging system
- 5 MP EO camera imager
- Laser illuminator

**COMPATIBLE WITH PUMA™ 3 AE ONLY**

**COMPATIBLE WITH PUMA™ LE**

**ENDURANCE**
- 2.5 hr with Mantis™i45

**TOTAL PAYLOAD CAPACITY**
- 4 lb (1.8 kg)

**KEY FEATURES**
- Increased payload capacity with optional underwing transit bay for secondary payloads
- Shares Mantis™i45/i45 N gimbal payload & common LRUs with Puma™ LE
- Single-case mission packout provides two full flights

**INTEROPERABLE LRU SHARING ACROSS PUMA™ PRODUCT LINE**
- Puma™3 AE and Puma™LE share many of the same Line Replaceable Units (LRUs), retaining similar operation, transport and logistics support within the Puma™ family.

**MOTORS/PROPS**
- GPS/INS
- Batteries
- Avionics
- GCS Servo
- UBC
- Laptop

**KEY FEATURES**
- Increased payload capacity with optional underwing transit bay for secondary payloads
- Shares Mantis™i45/i45 N gimbal payload & common LRUs with Puma™ LE
- Single-case mission packout provides two full flights
**RAVEN® B RC-11B**

**DIMENSIONS**
- Wingspan: 4.5 ft (1.4 m)
- Length: 3.1 ft (0.9 m)
- Link range: 10 km

**WEIGHT**
- 4.8 lb (2.2 kg)

**SPEED**
- Cruise: 43 km/h (23 kts)
- Dash: 83 km/h (45 kts)

**OPERATING ALTITUDE**
- 300 ft (91 m) AGL, typical max. launch 10K ft (3,048 m) MSL

**GCS**
- Crysalis ™ & legacy common GCS

**LAUNCH METHOD**
- Hand-launched

**RECOVERY METHOD**
- Autonomous or manual deep-stall

**WEIGHT**
- 2.9 lb (1.3 kg)

**DIMENSIONS**
- Wingspan: 3.3 ft (1 m)
- Length: 2.5 ft (0.8 m)

**ENDURANCE**
- 50 min

**LINK RANGE**
- 5 km

**KEY FEATURES**
- Backpackable, lightweight & hand-launched
- All-environment recovery with deep-stall landing in confined areas
- Quiet operation to avoid detection

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**QUANTIX® RECON**

**DIMENSIONS**
- Wingspan: 3.2 ft (0.97 m)

**WEIGHT**
- 5 lb (2.3 kg)

**DIMENSIONS**
- Wingspan: 4.5 ft (1.4 m)
- Length: 3.1 ft (0.9 m)
- Link range: 50 min

**SPEED**
- Cruise: 43 km/h (23 kts)
- Dash: 83 km/h (45 kts)

**OPERATING ALTITUDE**
- 300 ft (91 m) AGL, typical max. launch 10K ft (3,048 m) MSL

**GCS**
- Crysalis ™ & legacy common GCS

**LAUNCH METHOD**
- Hand-launched

**RECOVERY METHOD**
- Vertical takeoff & landing (VTOL)

**MAX FLIGHT TIME**
- 45 min

**RANGE**
- 2 km (radio limit) (up to 40 km without radio link)

**PROPULSION**
- 4-direct electric drive motors

**MAX ALTITUDE**
- 7,000 ft (2,134 m) MSL (Density Altitude)

**CAMERA**
- 16 MP RGB & Multispectral Cameras, Simultaneous Capture

**COMMUNICATIONS**
- 600 MHz Encrypted & WiFi

**LAUNCH AND RECOVERY**
- Vertical takeoff & landing (VTOL)

**KEY FEATURES**
- RF Silent Mode prevents detection
- Dual 16 MP cameras for complete hands-free data collection
- Ready to fly in ~5 minutes & accurate up-to-date maps within minutes of landing
- Rapid mission planning & verification with no connectivity required

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**VAPOR® 55 MX ALL-ELECTRIC HELICOPTER UAS**

**DIMENSIONS**
- Aircraft: 6 ft x 2.2 ft x 2.1 ft (1.8 m x 0.67 m x 0.64 m) Rotor Diameter: 7.5 ft (2.29 m)

**WEIGHT**
- 65 lb (29.5 kg)

**LINK RANGE**
- 8 km standard GCS

**MAX WIND PEAK**
- Sustained: 23 mph (30 kts); Gust: 45 mph (40 kts)

**DATA LINKS**
- 900 MHz, 2.4 GHz or 5.8 GHz (Video), Satellite

**GROUND SPEED LIMIT**
- 33 mph (15 m/s)

**OPERATING ALTITUDE**
- 0-12,000 ft (3,657 m) MSL (density)

**MAX Usable Payload**
- Up to 12 lb (5.4 kg) @ 55 lb
- Up to 22 lb (10 kg) @ 65 lb

**EXAMPLES OF POSSIBLE PAYLOADS**
- El/IR Sensor
- EO/IR Sensor
- Drop Mechanism
- Lidar
- Hyperspectral
- PPK Mapping
- Multi-Payload

**EXAMPLES OF POSSIBLE PAYLOADS**
- El/IR Sensor
- EO/IR Sensor
- Drop Mechanism
- Lidar
- Hyperspectral
- PPK Mapping
- Multi-Payload

**KEY FEATURES**
- Payload flexibility—new payload modules with rail design enables quick & easy payload integration for increased mission flexibility
- New sleek modular airframe design—stealthy low-profile design easier to assemble & disassemble
- More portable design—features a telescoping tail & folding landing gear

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**VAPOR® 55 ALL-ELECTRIC HELICOPTER UAS**

**DIMENSIONS**
- Aircraft: 8.4 ft x 2.1 ft x 1.8 ft (2.56 m x 0.67 m x 0.58 m) Rotor Diameter: 7.5 ft (2.29 m)

**WEIGHT**
- 55 lb (24.9 kg)

**LINK RANGE**
- 8 km standard GCS

**MAX WIND PEAK**
- Sustained: 23 mph (30 kts); Gust: 45 mph (40 kts)

**DATA LINKS**
- 900 MHz, 2.4 GHz, 5.8 GHz, Satellite

**GROUND SPEED LIMIT**
- 22 mph (10 m/s)

**OPERATING ALTITUDE**
- 0-12,000 ft (3,657 m) MSL (density)

**MAX Usable Payload**
- Up to 12 lb (5.4 kg) @ 55 lb
- Up to 22 lb (10 kg) @ 65 lb

**EXAMPLES OF POSSIBLE PAYLOADS**
- El/IR Sensor
- EO/IR Sensor
- Drop Mechanism
- Lidar
- Hyperspectral
- PPK Mapping
- Multi-Payload

**KEY FEATURES**
- Purpose-built for multi-mission operations
- VTOL Automated Mission Execution—plan, simulate & execute
- Versatile payload bay for integration of sensors & third-party payloads
- Configurable to perform single and/or multiple payload missions

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**WASP® AE ALL ENVIRONMENT // RC-22A**

**DIMENSIONS**
- Wingspan: 3.3 ft (1.0 m)
- Length: 2.5 ft (0.8 m)
- Link range: 5 km

**WEIGHT**
- 2.9 lb (1.3 kg)

**SPEED**
- Cruise: 43 km/h (23 kts)
- Dash: 83 km/h (45 kts)

**OPERATING ALTITUDE**
- 300 ft (91 m) AGL, typical max. launch 10K ft (3,048 m) MSL

**GCS**
- Crysalis ™ & legacy common GCS

**LAUNCH METHOD**
- Hand-launched

**RECOVERY METHOD**
- Deep-stall landing in a confined area

**KEY FEATURES**
- Backpackable, lightweight & hand-launched
- All-environment recovery with deep-stall landing in confined areas
- Quiet operation to avoid detection
With their 185-mile range, AeroVironment’s fixed-wing medium unmanned aircraft systems (MUAS) — JUMP® 20 and T-20™ — are excellent choices for exacting reconnaissance, surveillance and target acquisition applications, thanks to their ability to carry some of the most powerful and versatile imaging sensors available.

The JUMP® 20 is the first fixed-wing UAS extensively employed by U.S. forces capable of vertical takeoff and landing (VTOL). It features a 30-pound payload capacity and more than 14 hours of uninterrupted flight.
**JUMP(TM) 20 VTOL FIXED-WING**

**WEIGHT**
- 215 lb MGTOW* (97.5 kg)
- Fuel & Payload

**DIMENSIONS**
- Wingspan: 18.8 ft (5.7 m)
- Length: 9.5 ft (2.9 m)

**OPERATING ALTITUDE**
- 12,000 ft DA

**GCS**
- Common GCS with T-20™

**LAUNCH METHOD**
- No launch system or runway required, vertical takeoff & landing (VTOL)

**RECOVERY METHOD**
- VTOL landing

**LINK RANGE**
- 185 km (115 mi)

**ENDURANCE**
- 14+ hr

**USABLE PAYLOAD CAPACITY**
- Up to 30 lb (13.6 kg)

**POWER SUPPLY**
- MOGAS, 190 cc EFI Engine

**WEIGHT**
- 225 lb MGTOW* (102 kg)
- Fuel & Payload

**DIMENSIONS**
- Wingspan: 18.8 ft (5.7 m)
- Length: 9.5 ft (2.9 m)

**OPERATING ALTITUDE**
- 20,000 ft DA

**GCS**
- Common GCS with JUMP® 20

**LAUNCH METHOD**
- Catapult-launched

**RECOVERY METHOD**
- Autonomous or manual skid landing

**LINK RANGE**
- 185 km (115 mi)

**ENDURANCE**
- 24+ hr

**USABLE PAYLOAD CAPACITY**
- Up to 50 lb (22.7 kg)

**POWER SUPPLY**
- MO65, 190 cc EFI Engine

**KEY FEATURES**
- Multi-INT/Multi-Domain in a single integrated aircraft
- Best-in-class range & endurance, delivering superior performance
- Fully Integrated Payload Options—Synthetic aperture radar, mapping capabilities, laser designation, anti-jamming, COMINT/SIGINT

**SENSOR OPTIONS** // compatible with all JUMP(TM) 20 & T-20™ systems
- HDOTech 450
- JUMP(TM) 20 only
- Wescam MX-8
- Trillium HD80
- TASE 400 LRS

**SAMPLE IMAGING SYSTEMS**
- Superior long-range day and night imaging systems that offer onboard tracking, MWR, image stabilization, analog and digital output with H.264/5 compression

**DATA LINKS**
- Provides ISR support, MIMO 1 Interoperability, GSRT downlink to ground or air forces, and the ability to communicate across multiple channels and bands

**COMMUNICATIONS RELAY**
- Provides unobstructed ground-to-ground and pilot-to-ground voice/video communication in urban environments or challenging terrain.

**ISR SERVICES**
- AeroVironment’s ISR services can provide everything from supply chain management, mission planning and onsite operational support to maintenance and repairs, ensuring uninterrupted asset operations and mission success. Our highly trained staff of over 100 Field Service Representatives (FSRs) are ready to mobilize quickly, 24-hours a day, to support customer mission requirements in any theater of operation.

- Fully Equipped & Staffed
- Turn-Key Solutions for CCO & GCO operations
- OEM-SME remote pilot certified operators, instructors & maintainers
- Design & Development of mission-tailored TTPs & SOPs
- Development of on-site sustainment operations & delivery

**TRAINING AND FIELD SERVICES**

**STUDENT TRAINING**
- 8 maintainers
- 8 air vehicle operators
- 10 weeks of flight & maintenance training

**FIELD SERVICE**
- Factory support program
- Ongoing global logistics support
- Component replacement tracking with FORT
- Onsite FSR
- Currency training support

**FORT SOFTWARE**
- FORT is an iPad-based tool that tracks checklist compliance and reports system readiness.
Reliable, real-time, secure communications are fundamental for accurate situational awareness and rapid response. Accordingly, we developed Crysalis™, our next-generation ground control solution, in conjunction with our broadband digital network module, Digital Data Link™, for enhanced command and control in a network-centric battlefield.

Featuring robust data encryption across multiple frequency bands, this IP-based module is designed for maximum flexibility and interoperability between small airborne systems and ground systems with limited power requirements. It ensures that bandwidth is available to maximize the number of systems that can operate in a given area.
AeroVironment’s next-generation ground control solution streamlines command and control of compatible UAS and their payloads through an intuitive user experience. Built around three core elements – software, hardware and antennas – Crysalis™ offers complete interchangeability, either as a network of modular elements or turnkey systems optimized for the warfighter. The result: an adaptable, operationally simplified GCS solution that improves battlefield communications and collaboration by enabling users to easily share real-time information and coordinate mission-critical decisions.

**USE CASE**

**MISSION PLANNING WIZARD**
Takes operators through a step-by-step process to set flight operations and mission waypoints, identify any DTED conflicts, or quickly re-fly missions previously saved to the UAS or GCS.

**MISSION FLIGHT DIAGNOSTICS AND CAMERA MODES**
View aircraft, GPS, telemetry, radio, GCS and mission plan diagnostics at any time with dynamic retasking. Select from multiple view options including Real-time Video, Map, Split Screen and Summary mode to customize your viewing experience.

**PAYLOAD CONTROL**
Quickly access multiple camera and payload status and control options with zoom capability.

**BUILT-IN PRE-FLIGHT CHECKLIST**
Comprehensive checklist covering avionics and navigation systems, radio systems, mission waypoints, aircraft and payload control and aircraft instrumentation reducing the time from set-up to deployment.

**CRYSALIS™ GCS**

**PORTABILITY**
- Wearable

**SETUP TIME**
- 5 min

**WEIGHT**
- System: 3.3 lb (1.5 kg)

**LINK RANGE**
- 5 km

**USE CASE**
Single operator (wearable); situational awareness, battlefield coordination and support to large and/or small teams; passive downlink video viewing and UAS telemetry data.

**CRYSALIS™ RVT**

**PORTABILITY**
- Wearable

**SETUP TIME**
- 5 min

**WEIGHT**
- System: 4.7 lb (2.1 kg)

**LINK RANGE**
- 5 km

**USE CASE**
Single operator (wearable); ideal for on-the-move and mobile ISR operations; virtual touchscreen or tactile joystick control of UAS and payloads.

**CRYSALIS™ ULTRALIGHT GCS**

**PORTABILITY**
- Man-packable

**SETUP TIME**
- 15 min

**WEIGHT**
- System: 14.3 lb (6.49 kg)

**LINK RANGE**
- 5 km

**USE CASE**
Single operator deployment and launch, full control of UAS and payloads through virtual or tactile joysticks; backpackable, lightweight and rugged for use in any environment with an operational range up to 20 km.

**CRYSALIS™ TACTICAL GCS**

**PORTABILITY**
- Backpackable

**SETUP TIME**
- 10 min

**WEIGHT**
- System: 8.6 lb (3.9 kg)

**LINK RANGE**
- 20 km

**USE CASE**
Single or dual operator deployment and launch, full control of UAS and payloads through virtual or tactile joysticks; backpackable, lightweight and rugged for use in any environment with an operational range up to 20 km.
### DDL® NETWORK ANTENNAS

AeroVironment’s Digital Data Link™ (DDL™) is a small, lightweight, broadband digital network module enabling enhanced command and control of SUAS. DDL is IP-based, allowing maximum flexibility and interoperability between small airborne and ground systems with limited power and bandwidth to maximize the number of systems that can operate in a given area. DDL is compatible with AeroVironment’s network connectivity solutions and antennas, providing command and control ranges that extend from the wearable, short-range pDDL™ (5 km) to the Long Range Tracking Antenna (60 km).

#### DDL® FREQUENCIES

<table>
<thead>
<tr>
<th>M1/2/5 OR M3/4/6</th>
<th>COMPATIBLE UAS</th>
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<tbody>
<tr>
<td>PUMA™ LE</td>
<td>PUMA™ AE</td>
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<tr>
<td>RAVEN™</td>
<td>WASP™ AE</td>
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### NETWORK CONNECTIVITY

#### Supported Data Rate

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<tr>
<td>Link Range</td>
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<tr>
<td>Up to 5 km</td>
<td>Up to 20 km</td>
<td>Up to 40 km</td>
<td>Up to 60 km</td>
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<td>RX Sensitivity</td>
<td>-98 dBm @ 2 Mbps</td>
<td>-98 dBm @ 2 Mbps</td>
<td>-98 dBm @ 2 Mbps</td>
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<td>Operating Voltage</td>
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<td>5.5–16 V</td>
<td>5.5–16 V</td>
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<td>Data Rate</td>
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<td>4.5 Mbps</td>
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<tr>
<td>Supported Compression</td>
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<td>MP602 or H204 SD</td>
<td>MP602 or H204 SD</td>
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</tbody>
</table>

#### Dimensions

- **pDDL™ ANTENNA**
  - Height: 2 ft (0.6 m)
  - Base Diameter: 4 ft (1.2 m)
- **STANDARD RANGE ANTENNA**
  - Height: 4 ft (1.2 m)
  - Base Diameter: 4 ft (1.2 m)
- **ERA ANTENNA**
  - Height: 4 ft (1.2 m)
  - Base Diameter: 4 ft (1.2 m)
- **LRTA LONG RANGE TRACKING ANTENNA**
  - Height: 8 ft (2.4 m)
  - Base Diameter: 8 ft (2.4 m)

#### Weight

- **pDDL™ ANTENNA**: 0.4 lb (0.2 kg)
- **STANDARD RANGE ANTENNA**: 3 lb (1.3 kg)
- **ERA ANTENNA**: 8 lb (3.6 kg)
- **LRTA LONG RANGE TRACKING ANTENNA**: 46 lb (21 kg)

#### Additional Information

- **Note**: excludes the GCS RF Head, hub and system battery

**AeroVironment’s Digital Data Link™ (DDL™)** is a small, lightweight, broadband digital network module enabling enhanced command and control of SUAS. DDL is IP-based, allowing maximum flexibility and interoperability between small airborne and ground systems with limited power and bandwidth to maximize the number of systems that can operate in a given area. DDL is compatible with AeroVironment’s network connectivity solutions and antennas, providing command and control ranges that extend from the wearable, short-range pDDL™ (5 km) to the Long Range Tracking Antenna (60 km).
Our family of Telerob unmanned ground vehicles (UGV) share the same purpose as our unmanned aircraft and tactical missile systems: to keep operators out of harm’s way.

Our UGVs have proven themselves in a variety of dangerous ground applications, including the localization and mitigation of threats due to explosive ordnance disposal (EOD), hazardous materials handling (HAZMAT), chemical, biological, radiological and nuclear (CBRN) threat assessments, and special weapons and tactics (SWAT) team operations.

With their advanced, specialized, precision manipulators, autonomous functionality and intuitive operation, our rugged, all-terrain UGVs accommodate a high degree of mission flexibility. That’s why they have been adopted in 45 countries for homeland security, emergency response and defense purposes.
**tEOdor™ EVO**

- **Weight**: Max. 169 lb (77 kg)
- **Dimensions**: 31 in x 27 in x 29 in (815 mm x 685 mm x 770 mm)
- **Total Payload Capacity**: 68 lb (31 kg)
- **Speed**: Max. 6.2 mph (10 km/h)
- **Drive Mechanism**: 4-track running gear with individually adjustable flippers; optional wheels
- **Functionality**: Obstacle Height: 20 in (500 mm), Gap Width: 24 in (600 mm)

**Mission Variants**
- EOD
- HazMat
- CBRNE
- SWAT

**Interchangeable Accessories**
- Optics/Visual Augmentation
- Communications
- Power Sources
- Wheels/Tracks
- Tooling & Hauling
- Render Safe Options

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**telemax™ EVO PLUS**

- **Weight**: 249 lb (113 kg)
- **Dimensions**: 34 in x 27 in x 29 in (870 mm x 685 mm x 740 mm)
- **Total Payload Capacity**: 77 lb (35 kg)
- **Speed**: Max. 6.2 mph (10 km/h)
- **Drive Mechanism**: 4-track running gear with individually adjustable flippers
- **Functionality**: Obstacle Height: 20 in (500 mm), Gap Width: 24 in (600 mm)

**Mission Variants**
- EOD
- HazMat
- CBRNE
- SWAT

**Interchangeable Accessories**
- Optics/Visual Augmentation
- Communications
- Power Sources
- Wheels/Tracks
- Tooling & Hauling
- Render Safe Options

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**telemax™ EVO HYBRID**

- **Weight**: Max. 176 lb (80 kg)
- **Dimensions**: 31 in x 18 in x 30 in (775 mm x 450 mm x 770 mm)
- **Total Payload Capacity**: 68 lb (31 kg)
- **Speed**: Max. 6.2 mph (10 km/h)
- **Drive Mechanism**: 4-track running gear with individually adjustable flippers; optional wheels
- **Functionality**: Obstacle Height: 20 in (500 mm), Gap Width: 24 in (600 mm)

**Mission Variants**
- EOD
- HazMat
- CBRNE
- SWAT

**Interchangeable Accessories**
- Optics/Visual Augmentation
- Communications
- Power Sources
- Wheels/Tracks
- Tooling & Hauling
- Render Safe Options

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**telemax™ EVO PRO**

- **Weight**: Max. 166 lb (77 kg)
- **Dimensions**: 31 in x 18 in x 29 in (775 mm x 400 mm x 750 mm)
- **Total Payload Capacity**: 77 lb (35 kg)
- **Speed**: Max. 6.2 mph (10 km/h)
- **Drive Mechanism**: 4-track running gear with individually adjustable flippers; optional wheels
- **Functionality**: Obstacle Height: 20 in (500 mm), Gap Width: 24 in (600 mm), Reach Height: 150 in (3810 mm)

**Mission Variants**
- EOD
- HazMat
- CBRNE
- SWAT

**Interchangeable Accessories**
- Optics/Visual Augmentation
- Communications
- Power Sources
- Wheels/Tracks
- Tooling & Hauling
- Render Safe Options

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**GCS Robo Command**

- Telescopic joint allows for extended horizontal & vertical reach
- Tool Center Point Control provides maximum movement flexibility of the manipulator
- Pre-programmed manipulator & flipper motion sequences

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**KEY FEATURES**

- Laser rangefinder, video input & data interface integrated into gripper
- Universal interfaces - multiple firing system connection options
- Expansive payload bay eliminates round-trip load-outs

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**MISSION VARIANTS**

- EOD
- HazMat
- CBRNE
- SWAT

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**INTERCHANGEABLE ACCESSORIES**

- Optics/Visual Augmentation
- Communications
- Power Sources
- Wheels/Tracks
- Tooling & Hauling
- Render Safe Options
QUALITY
AeroVironment’s ISO-9001:2008 production and service facility ensures the highest level product and support quality. The company’s unmatched experience and technology roadmap combine to deliver an outstanding customer experience in situations where reliability and effectiveness can make the difference between success and failure.

AIRWORTHINESS
AeroVironment’s airworthiness organization monitors and evaluates airworthiness regulation initiatives in key markets and regions across the globe to ensure our products conform to our customers’ airworthiness certification needs.

TRAINING
We specialize in student-centered learning using state-of-the-art, interactive 3D digital training media that aids in the retention of information and promotes student participation. Courses include simulator-focused mission scenarios providing a real world digital experience, hands-on practical exercises, mission planning and live flight field operations. We offer all levels of operator training from basic to advanced courses in a safe and controlled environment. Our distinctive training program is recognized both domestically and internationally.

SUPPORT SERVICES
FIELD OPERATION SERVICES
AeroVironment provides world-class field operation services on a global scale. Our field operation services include fully-equipped and staffed turnkey solutions and outstanding OEM-certified operators, instructors and maintainers.

FIELD SERVICE REPRESENTATIVES
Our Field Service Representatives (FSRs) provide on-site field service support and act as the liaison between customers and our engineering team. The FSRs are highly qualified to provide on-site flight standardization program development and training support package development.

PROGRAM MANAGEMENT AND SME SUPPORT
We supply customer-focused program management and subject matter expert (SME) support. Our exceptionally skilled staff provides tailored mission planning and operational support, and we include engineering support from the original equipment manufacturer. We also offer on-site sustainment operations development and delivery.

QUALITY
AeroVironment’s ISO-9001:2008 production and service facility ensures the highest level product and support quality. The company’s unmatched experience and technology roadmap combine to deliver an outstanding customer experience in situations where reliability and effectiveness can make the difference between success and failure.

SUSTAINMENT OPERATION
We support our customers with sustainment operations, including professional inventory control and comprehensive logistical services. Our logistical support includes extensive planning, coordination and monitoring to successfully plan and maintain operations.

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FIELD OPERATIONS AND CUSTOMER SUPPORT