





UNITS DELIVERED WORLDWIDE

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.

* Source: United States Department of Defense Unmanned Systems Roadmap 2013-2038, page 5

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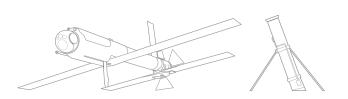
TACTICAL* MISSILE SYSTEMS

[†]TMS

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)

AUR: 50 lb (22.7 kg) System [1 AUR and FCS]: 120 lb (54.4 kg)



40+ km



ENDURANCE



SPEED Cruise: 70 mph Dash: 115 mph



EFFECTS ON TARGET anti-personnel effects

WEIGHT

FIRE CONTROL SYSTEM

Tablet-based FCU with tap-to-target guidance & built-in mission planner & trainer

TARGETING

2-axis, 4-sensor gimbal (Dual EO/IR) integrated

OPERATING Below 650 ft AGL ALTITUDE

(ceiling >15,000 ft MSL)

LAUNCH METHOD

LETHALITY

Self-contained launcher for ground, air

Precision strike with anti-armor warhead

SWITCHBLADE® 300 LOITERING MISSILE



DIMENSIONS

Wingspan: 27 in (68.6 cm) Length: 19.5 in (49.5 cm)

WEIGHT AUR: 5.5 lb (2.5 kg)

RANGE



ENDURANCE



SPEED Cruise: 63 mph Dash: 100 mph



EFFECTS ON TARGET Anti-personnel effects

GROUND CONTROL SYSTEM

Interoperable with common ground control system for Puma™ AE, Raven® & Wasp® AE Dual front & side-look

TARGETING OPTICS

EO cameras & IR nose camera, stabilized electronic pan-tilt-

OPERATING Below 500 ft AGL ALTITUDE (ceiling >15,000 ft MSL)

LAUNCH Self-contained ground launch & multipack METHOD

Precision strike with **LETHALITY** Northrop Grumman advanced munition

KEY FEATURES

DIMENSIONS

SENSORS

LAUNCH

METHOD

Wingspan: 27 in (68.6 cm)

Length: 19.5 in (49.5 cm)

Diameter: 3 in (7.6 cm)

- >> Rapid response ISR
- C3 tactical data relay from UAS to UUV

BLACKWING™ LOITERING RECONNAISSANCE SYSTEM

WEIGHT

Integrated EO/IR sensors—day/night operations

Underwater-to-air delivery canister, tube, MPL

4 lb (1.8 kg)

» Modular payload

MPL MULTIPACK LAUNCHER



DIMENSIONS

36 in D x 30 in W x 36 in H

WEIGHT ~130 lb empty

~160 lb loaded

CONFIG- Urations	6-pack Standard (Alternates 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)

KEY FEATURES

- Compatible platforms: Switchblade® 300, Blackwing™
- Rapid Reload —< 30 seconds per round
- Low observable remote ops
- Tactical vehicle/MRAP

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





















Antenna



KEY FEATURES

- >> Patented wave-off feature & recommit capability
- » Automated waypoint navigation
- >> Backpackable
- >> < 2 minute setup & launch



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.



>>> PORTABILITY
Backpackable



>>> LINK RANGE



SPECIFICATIONS

SUETWAR

SUFTWANE	
APPLICATION	FalconView®: Sensor to Shooter software update
OPERATING SYSTEM	Windows® 10

HARDWARE

DIMENSIONS	Pelican Case: 16.9 in x 13.2 in x 4.5 in (42.9 cm x 33.6 cm x 11.4 cm)
WEIGHT	System: ~6.5 lb (2.95 kg)* Operational: 0.6 lb (0.27 kg)**
COMPATIBLE UAS	Puma™ LE, Puma™ 3 AE, Raven®, Wasp® AE
COMPATIBLE Antennas	pDDL™
REQUIRED HARDWARE	Ruggedized laptop

SYSTEM PERFORMANCE

FREQUENCY	BANDS	M1/2/5

Reduced engagement timelines

with instant target coordinate

transfer from SUAS to

Switchblade® 300

- *System consists of all kit components
- **Operational setup consists of pDDL™, antennas, USB Y-cable
 - View ISR & TMS downlink, Scene-match SU
 FalconView® UI & Mission Map camera feeds to

on one screen for streamlined

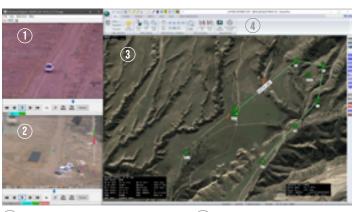
operations

- Scene-match SUAS ISR & TMS camera feeds to instantly reassess targets, mission plan & conduct BDA
- Identify threats at greater standoff range; find, fix & prosecute highvalue targets with lethal effects



- A Pelican Carrying Case (1)
- B Antenna, M1/2/5 pDDL™ (2)
- C RFU, M1/2/5 pDDL™ (1)
- D Pouch pDDL™ (1)
- Assy, SSD hard drive software installation (1)
- F Velcro® tape hook & loop (2)
- G USB Y-cable (1)

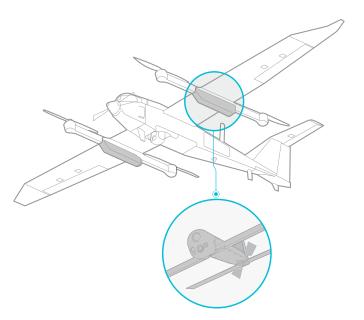
User Guide (2) - Not shown



- (1) UAS Live Video Downlink Window
- 2 Switchblade® 300 Live Video Downlink Window
- 3 Mission Map Data Points
- 4 Switchblade® 300—FalconView®



UAS/TMS INTEROPERABILITY



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.

KEY FEATURES



†SUAS

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

WEIGHT

SPEED

GCS

LAUNCH

METHOD

RECOVERY

METHOD

23.5 lb with Mantis[™] i45/i45 N (10.7 kg)

OPERATING AGL, typical

ALTITUDE Max. launch 10K ft

(3,048 m) MSL

common GCS

launch

Hand-launched.

bungee or vehicle

Autonomous or manual

deep-stall, land or sea

Crysalis™ and legacy

Cruise: 47 km/h (25 kts)

Dash: 76 km/h (41 kts)

300-500 ft (91-152 m)

DIMENSIONS

Wingspan: 15 ft (4.6 m) Length: 7.3 ft (2.2 m)



>>> LINK RANGE 20 km, 60 km with LRTA



>>> ENDURANCE 6.5 hr with Puma™ Smart 2500 Battery*

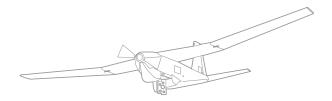


PAYLOAD CAPACITY 5.5 lb (2.5 kg)**

* Puma™ Smart 2500 Battery is not compatible with other Puma™ AE aircraft

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

PUMA™ 3 AE ALL ENVIRONMENT // RQ-20C



DIMENSIONS

Wingspan: 9.2 ft (2.8 m) Length: 4.6 ft (1.4 m)

WEIGHT

15.4 lb with Mantis[™] i45/i45 N (7 kg)



>>> LINK RANGE 20 km, 60 km with LRTA



>>> ENDURANCE 2.5 hr with Mantis™ i45



>>> TOTAL
PAYLOAD CAPACITY
4 lb (1.8 kg)

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™ & legacy common GCS
LAUNCH METHOD	Hand-launched, optional rail or bungee launch
RECOVERY METHOD	Autonomous or manual deep-stall, land or sea

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

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.



i45/i45 N



Motor/Props





Avionics



GPS/INS





DDL™ Radio



GCS



Servo



Batteries





IBC

Laptop

PUMA™ KITS AND ACCESSORIES

COMPATIBLE WITH PUMA™ PRODUCT LINE

PUMA™ BUNGEE LAUNCH SYSTEM



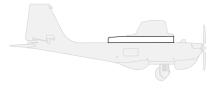
- » For environmental scenarios where hand launch is not preferred
- » Setup & operational in less than 10 min
- » Multiple ground fastener options securely installed in a variety of soil types or mounted to low, immovable objects

COMPATIBLE WITH PUMA™ 3 AE ONLY



- » Automated one-button launch & recovery in confined environments
- » Fixed-wing to VTOL in minutes
- » Available as add-on or retrofit kit

PUMA™ UNIVERSAL TRANSIT BAY



- » Optional under-wing transit bay for additional payload capacity
- » Easy integration of third-party payloads
- » Three heights available: 1.75 in, 2.25 in & 3 in

PUMA™ VNS visual navigation system



- » Seamless mission continuity through GPS-denied environments
- » Low-SWAP retrofit kit on existing & new Puma™ AE
- » Enables integration of future autonomy capabilities

MANTIS™ IMAGING PAYLOAD SENSORS

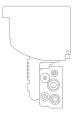
COMPATIBLE WITH PUMA™

MANTIS™ i45 N



- » Maximum visibility during night & low-light ISR
- » Wide & narrow LWIR camera imagers
- » 5 MP monochrome Low Light camera
- » Enhanced laser illuminator

MANTIS™ i45



- » Superior daylight & low-light capabilities
- » Dual 15 MP high-res EO cameras
- » Low Light, LWIR cameras
- » Laser illuminator

COMPATIBLE WITH RAVEN®

MANTIS™ i23 D



- » High-performance daytime imaging
- » Dual 18 MP high-res EO sensors
- » 25x digital zoom

MANTIS™ i23



- » Daylight & thermal imaging system
- » 5 MP EO camera imager
- » Laser illuminator

COMPATIBLE WITH WASP®

MANTIS™ i22



- » Advanced EO/IR imaging system
- » 5 MP E0 camera
- » LWIR camera for night operations

RAVEN® B RO-11B



DIMENSIONS Wingspan: 4.5 ft (1.4 m) Length: 3 ft (0.9 m)

4.8 lb (2.2 kg)





SPEED Cruise: 32 km/h (17 kts), Dash: 81 km/h (44 kts) 100-500 ft (30-152 m) AGL, typical Max. launch 14K ft **OPERATING ALTITUDE** (4,267 m) MSL GCS Crysalis™ & legacy common GCS LAUNCH METHOD Hand-launched RECOVERY METHOD Autonomous or manual deep-stall

KEY FEATURES

- Backpackable, lightweight & hand-launched
- Autonomous navigation & autoland
- >> Rugged for extended, reliable use in harsh environments

WASP° AE ALL ENVIRONMENT // RO-12A



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

2.9 lb (1.3 kg)





ENDURANCE

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

QUANTIX™ RECON



DIMENSIONS Wingspan: 3.2 ft (97.5 cm)

WEIGHT 5 lb (2.3 kg)



MISSION COVERAGE Area: 400 acres Linear: 20 km (out & back)



≫ NAVIGATION Automatic navigation -Area, Waypoint, Linear



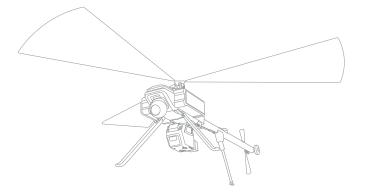
>> RF SILENT MODE

	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	7,500 ft (2,286 m) MSL (Density Altitude)
	CAMERA	18 MP RGB & Multispectral Cameras, Simultaneous Capture
	COMMUNI- Cations	900 MHz Encrypted & WiFi
	LAUNCH AND Recovery	Vertical takeoff & landing (VTOL)

KEY FEATURES

- » RF Silent Mode prevents detection
- Dual 18 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

VAPOR° 55 MX all-electric helicopter uas



DIMENSIONS

Aircraft: 6 ft x 2.2 ft x 2.1 ft (1.8 m x .67 m x .64 m) Rotor Diameter: 7.5 ft (2.29 m)

55 lb (24.9 kg) for commercial use** 65 lb (29.5 kg) defense missions with less endurance**



≫RANGE

Up to 32 km with Silvus & MPU5 radios



>>> ENDURANCE Cruise: 75 min

Hover: 60 min



SUSABLE PAYLOAD Up to 12 lb (5.4 kg) @ 55 lb* Up to 22 lb (10 kg) @ 65 lb*

GROUND

SPEED 33 mph (15 m/s) LIMIT

OPERATING 0-12,000 ft (3,657 m) MSL (density) ALTITUDE Sustained: 23 mph

MAX WIND PEAK

900 MHz, 2.4 GHz or 5.8 GHz (Video), Satellite DATA LINKS Silvus, TrellisWare, Persistent Systems,

(40 kts)

MicroHard

(30 kts), Gust: 45 mph

DIMENSIONS

Aircraft: 8.4 ft x 2.2 ft x 1.9 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)

VAPOR° 55 ALI-ELECTRIC HELICOPTER UAS

8 km standard GCS



ENDURANCE Cruise: 60 min Hover: 45 min



USABLE PAYLOAD 10 lb (4.5 ka)

GROUND

SPEED 22 mph (10 m/s) LIMIT

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

Sustained: 16.7 mph MAX WIND (15 kts), Gust: 23 mph PEAK (20 kts)

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

EXAMPLES OF POSSIBLE PAYLOADS







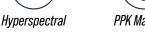
















* FAA restricts the max GTOW of drones operating in the NAS to 55 lb unless you have special authorization **Gross Takeoff Weight (GTOW)

KEY FEATURES

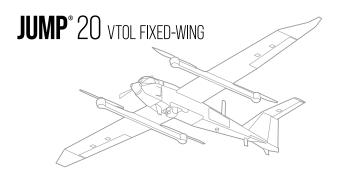
- >> Payload flexibility—new payload modules with rail design enables quick & easy payload integration for increased mission flexibility
- >> New sleek modular airframe design—stealthy low-profile design easier to assemble & disassemble
- >> More portable design—features a telescoping tail & folding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

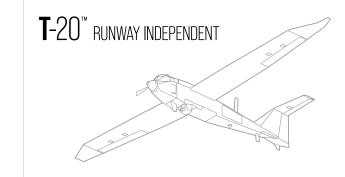
KEY FEATURES

- >>> 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









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





>>> ENDURANCE



SUSABLE PAYLOAD CAPACITY Up to 30 lb (13.6 kg)



>>> POWER SUPPLY MOGAS, 190 cc EFI Engine **Battery Powered VTOL Jump** WEIGHT 215 lb MGTOW* (97.5 kg) Fuel & Payload

LAUNCH

METHOD

OPERATING 17,000 ft DA **ALTITUDE** Common GCS with GCS

*MGTOW - Maximum Gross Takeoff Weight

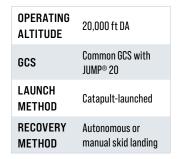
No launch system or runway required;

vertical takeoff & landing (VTOL)

RECOVERY Up to 50 lb (22.7 kg) VTOL landing METHOD

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

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



*MGTOW - Maximum Gross Takeoff Weight



POWER SUPPLY MOGAS, 190 cc EFI Engine

PAYLOAD CAPACITY

LINK RANGE

ENDURANCE

185 km (115 mi)

≫USABLE

KEY FEATURES

- >>> Runway Independent—small operational footprint with PLS (catapult)
- >>> High-Performance Optics—Long-range day/night imaging, onboard tracking & stabilization
- >>> Class-leading endurance & payload flexibility in a Group 3 UAS

₩ **EO**

MWIR

(D) H.264

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

TRILLIUM HD80

- Group 4 capabilities in a Group 3 footprint

SENSOR OPTIONS // COMPATIBLE WITH ALL JUMP® 20 & T-20™ SYSTEMS



HOODTECH-45D

JUMP® 20 ONLY

SWAPPABLE IMAGING SYSTEMS



» Superior long-range day and night imaging systems

that offer onboard tracking, MWIR, image stabilization,

analog and digital output with H.264/5 compression.

















WESCAM MX-8

DATA LINKS

» Provides ISR support, MUM-T interoperability, OSRVT 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-toground voice/video communication in urban environment or challenging terrain.









TASE 400 LRS



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 COCO** & GOCO operations
- >> OEM-SME remote pilot certified operators, instructors & maintainers
- Design & Development of mission-tailored TTPs & SOPs
- Development of on-site sustainment operations & delivery

- >> Total Logistical & **Operational Support** *mission* planning, coordination & monitoring
- Maintenance & Repair Services onsite to ensure mission sustainment & success





TRAINING AND FIELD SERVICES



FORT SOFTWARE: Fort is an iPad-based tool that tracks checklist compliance and reports system readiness.

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



NETWORK SONEGINEGIVITY

*NETWORK CONNECTIVITY

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.

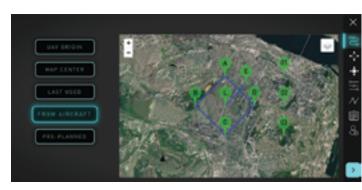


CRYSALIS GCS



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.

CRYSALIS" CONTROL



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.



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.



MISSION FLIGHT DIAGNOSTICS AND CAMERA MODES

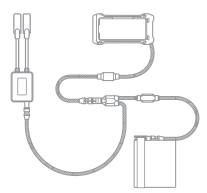
View aircraft, GPS, telemetry, radio, GCS and mission plan diagnostics at any time with dynamic retasking. Select from multiple view options including Real-time Video, Map, Split Screen and Summary mode to customize your viewing experience.



PAYLOAD CONTROL

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

CRYSALIS™ RVT





PORTABILITY Wearable

LINK RANGE



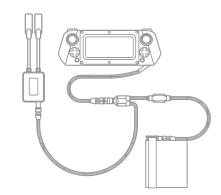


System: 3.3 lb (1.5 kg)

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" ULTRALIGHT GCS





>>> PORTABILITY



SETUP TIME



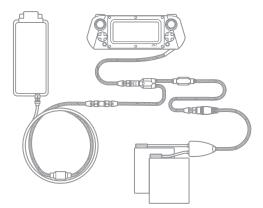


WEIGHT System: 4.7 lb (2.1 kg)

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™ TACTICAL GCS





I

USE CASE

PORTABILITY Backpackable

>>> LINK RANGE

20 km



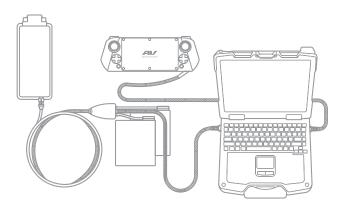
SETUP TIME



System: 8.6 lb (3.9 kg)

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™ COMMAND GCS





>>> PORTABILITY Man-packable



SETUP TIME



>>> LINK RANGE



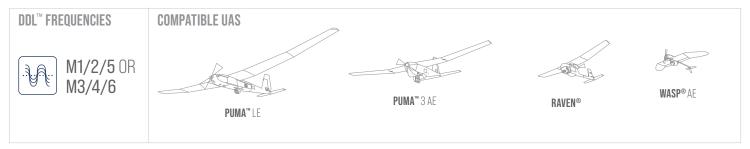
System: 14.3 lb (6.49 kg)

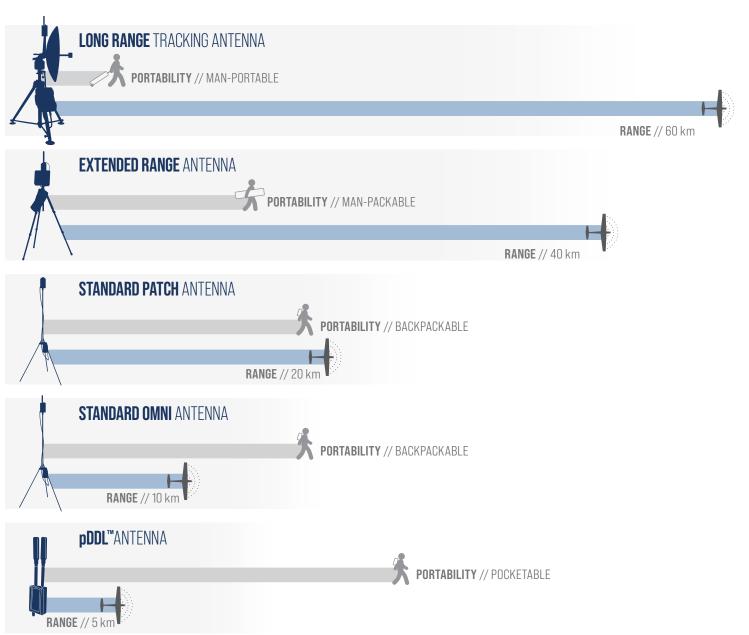
USE CASE

Single or dual operator deployment; all-in-one modular and flexible ground control system and payloads through tactile joysticks; ideal for command-level operations; semi-fixed positions.

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).







p**ddl**™ antenna

STANDARD RANGE



DIMENSIONS 4 in x 2.25 in x 0.75 in (10.2 cm x 5.7 cm x 1.9 cm)

WEIGHT 7.1 oz (201 g) DIMENSIONS Height: 6.5 ft (2 m) Base Diameter: 3 ft (0.9 m)

WEIGHT 3 lb (1.3 kg) **ERA** EXTENDED RANGE ANTENNA



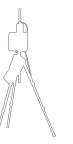
Height: 4.25-7 ft (1.3-2.2 m) Base Diameter: 3.75-8.2 ft (1.1-2.5 m)

WEIGHT 10.8 lb (4.9 kg)

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

LRTA

LONG RANGE TRACKING ANTENNA



DIMENSIONS Height: M1/2/5: 5.8-9.4 ft (1.8-2.9 m) M3/4/6: 5.25-8.8 ft (1.6-2.7 m) Base Diameter: 5.3 ft (1.6 m)

> WEIGHT M1/2/5: 304 lb (138 kg) M3/4/6: 300 lb (136 kg)

LINK RANGE Up to 5 km Up to 20 km Up to 40 km Up to 60 km **OPERATING BANDS** M1/2/5 or M3/4/6 M1/2/5 or M3/4/6 M1/2/5 or M3/4/6 M1/2/5 or M3/4/6 -98 dBm @ 2 Mbps **RX SENSITIVITY** -93 dBm @ 6 Mbps POWER 20 W (pass through, not 275 W (nom., heater off) 9 W 20 W 460 W (max., heater on) CONSUMPTION additional) **OPERATING VOLTAGE** 5.5-16 V 5.5-16 V 90-250 V ac, 47-65 Hz 5.5-16 V DATA RATE 4.5 Mbps 4.5 Mbps 4.5 Mbps 4.5 Mbps SUPPORTED MPEG2 or H264 SD MPEG2 or H264 SD MPEG2 or H264 SD MPEG2 or H264 SD COMPRESSION USB Ethernet/RS-232/RS-485 Ethernet/RS-232/RS-485 Ethernet/RS-232/RS-485 **INTERFACES ENCRYPTION** AES-128/AES-256 AES-128/AES-256 AES-128/AES-256 AES-128/AES-256



tEODor™ EVO



WEIGHT

TOTAL

SPEED

DRIVE

PAYLOAD

CAPACITY

771 lb (350 kg)

1.8 mph (3 km/h)

Dual track-inde-

Upward Reach with

Upward Reach with

Forward Reach: 73 in

Downward Reach: 50 in

(2860 mm)

in (2410 mm)

(1860 mm)

(1260 mm)

Robo Command

FUNCTION- Horizontal Gripper: 95

Vertical Gripper: 113 in

MECHANISM pendent high-torque

844 lb (383 kg)

DIMENSIONS 54 in x 27 in x 44 in (1370 mm x 685 mm x 1130 mm)

> **LIFTING CAPACITY** 220 lb (100 kg)



GRIPPER WIDTH 12 in (300 mm)

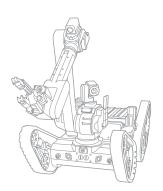


MANIPULATOR 6-axis manipulator with



CLIMB STAIRS

telemax™ EVO PLUS



DIMENSIONS 34 in x 27 in x 29 in [870 mm x 680 mm x 740 mm]

WEIGHT 249 lb (113 kg)

NUMBER OF THE PROPERTY OF THE 176 lb (80 kg)



GRIPPER WIDTH 8 in (200 mm)



MISSION DURATION



>>> CLIMB STAIRS

TOTAL PAYLOAD 154 lb (70 kg) CAPACITY

SPEED 3.1 mph (5 km/h) DRIVE

GCS

4-track running gear MECHANISM with individually adjustable flippers

Obstacle Height: 16 in FUNCTION-(400 mm) Gap Width: 20 in **ALITY**

(500 mm)

Robo Command

DIMENSIONS 32 in x 16 in x 30 in

(815 mm x 400 mm x 770 mm)



LIFTING CAPACITY 82 lb (37 kg)

telemax™ FVO HYBRID



GRIPPER WIDTH 8 in (200 mm)



MISSION DURATION



KEY FEATURES

CLIMB STAIRS & SLOPES

WEIGHT Max. 176 lb (80 kg)

TOTAL PAYLOAD

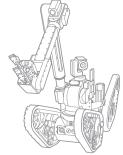
68 lb (31 kg) CAPACITY

Max. 6.2 mph **SPEED** (10 km/h)

4-track running gear DRIVE with individually **MECHANISM** adjustable flippers: optional wheels

Obstacle Height: 20 in FUNCTION-(500 mm) **ALITY** Gap Width: 24 in (600 mm)

GCS **Robo Command**



DIMENSIONS

31 in x 16 in x 29 in (775 mm x 400 mm x 750 mm)

telemax™ EVO PRO

WEIGHT Max. 169 lb (77 kg)



LIFTING CAPACITY 44 lb (20 kg)



MANIPULATOR 7-axis with telescopic reach



MISSION DURATION



>>> CLIMB STAIRS

TOTAL PAYLOAD 77 lb (35 kg) CAPACITY

Max. 6.2 mph **SPEED** (10 km/h)

4-track running gear DRIVE with individually MECHANISM adjustable flippers: optional wheel

> Obstacle Height: 20 in (500 mm) Gap Width: 24 in

FUNCTION-(600 mm) ALITY Gripper Width: 4.7 in [120 mm] Reach Height: 150 in

(2690 mm) GCS **Robo Command**

KEY FEATURES

- >> 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

KEY FEATURES

- Laser rangefinder, video input & data interface integrated into gripper
- Universal interfaces—multiple firing system connection options

GCS

>> Expansive payload bay eliminates round-trip load-outs

KEY FEATURES

- >>> Heavy lift capable precision 6-axis manipulator
- >> Tool Center Point Control provides maximum movement flexibility of the manipulator
- Double payload bay provides space for additional batteries & sensors

MISSION VARIANTS







HAZMAT Hazardous Materials



Chemical, Biological, Radiological, Nuclear & Explosives



SWAT High Risk Law Enforcement **Operations**

INTERCHANGEABLE ACCESSORIES

underground trains & buses



Optics/Visual

Augmentation

the manipulator



Compact design suited for confined spaces, e.g., airplanes,

>> Pre-programmed manipulator & flipper motion sequences

>> Tool Center Point Control provides maximum movement flexibility of



Communications





Power Sources



Wheels/Tracks



Tooling & Hauling







FIELD OPERATIONS AND CUSTOMER SUPPORT

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.

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.

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.

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.