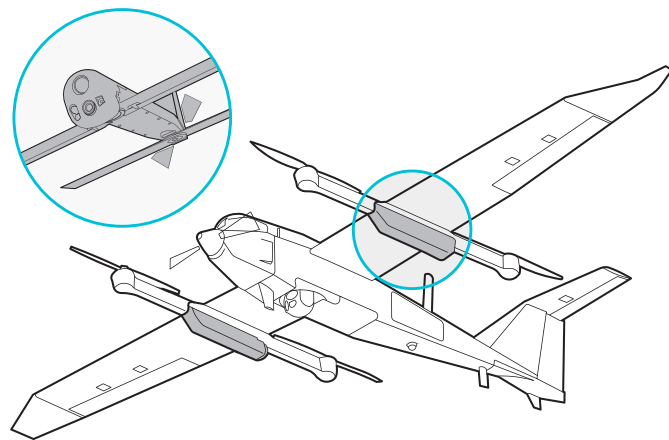# UAS/TMS INTEROPERABILITY

Sensor to Shooter (S2S) provides an integrated multi-domain ISR and precision strike capability for increased mission autonomy and efficacy. Combining the extended range of JUMP 20 medium UAS with organic Air Launched Effects of the Switchblade 300 loitering missile system. This end-to-end soluiton 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

»» PORTABILITY
Backpackable

»» LINK RANGE
10 km

»» SETUP TIME
Under 10 min

»» FREQUENCY BANDS
M1/2/5

SOFTWARE

APPLICATION	FalconView®: Sensor to Shooter Software Update
OPERATING SYSTEM	Windows® 10

HARDWARE

COMPATIBLE UAS	Puma™ LE, Puma™ 3 AE, Raven®, Wasp® AE
COMPATIBLE ANTENNAS	pDDL™
REQUIRED HARDWARE	Ruggedized Laptop

KEY FEATURES

- »» Instantly transfer target coordinates
- »» Machine-to-machine communication
- »» Small UAS to Switchblade 300
- »» Reduced time from target PID to prosecution

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

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)**
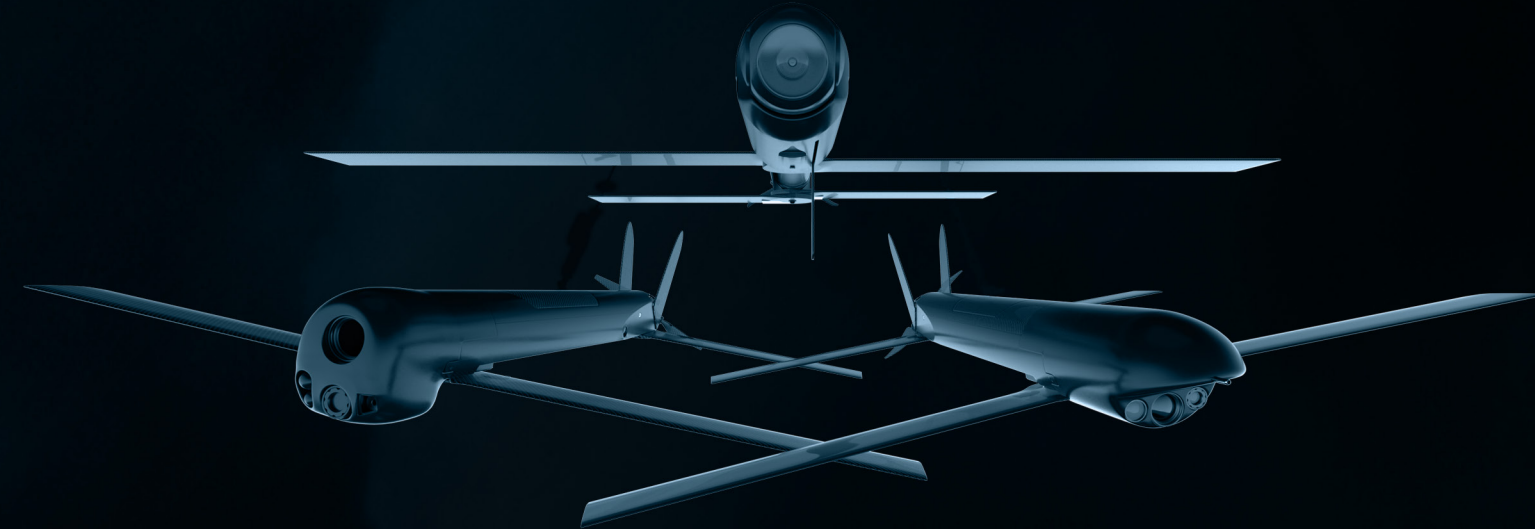
*System consists of all kit components
**Operational setup consists of pDDL, antennas, USB Y-cable

For more product information, **visit avinc.com**

VERSION 220309

AEROVIRONMENT
TACTICAL MISSILE SYSTEMS
WHEN PRECISION COUNTS

+++

AeroVironment's tactical missile systems close the gap between observation and action, giving troops the ability to identify threats and deliver a precision lethal payload with minimal collateral damage. Their small size and low acoustic, visual and thermal signature make them difficult to detect, recognize or track, even at close range.
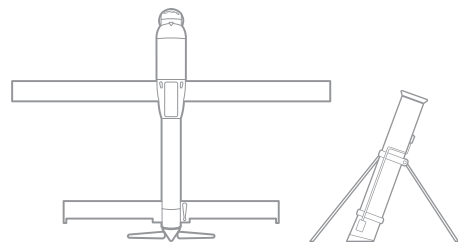
Rapidly deployable, highly maneuverable, with high performance optics and scalable munition payloads, AeroVironment's Switchblade loitering missile systems enable the warfighter to easily launch, fly, track and engage beyond line-of-sight targets and light armored vehicles across land, maritime, and air-launched scenarios.

When every second counts, AeroVironment's tactical missile systems deliver the actionable intelligence and precision firepower needed to achieve mission success across multiple domains.

AV AeroVironment™

SWITCHBLADE® 600 LOITERING MISSILE

DIMENSIONS
Length: 50 in (1.3 m)

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

»RANGE
40+ km

»ENDURANCE
40+ minutes

»SPEED
Cruise: 70 mph
Dash: 115 mph

»EFFECTS ON TARGET
Light armor and anti-personnel effects

FIRE CONTROL SYSTEM	Tablet-based FCU with Tap-to-Target guidance and built-in mission planner and trainer
TARGETING OPTICS	2-axis, 4-sensor gimbal (Dual EO/IR) integrated sensor suite
OPERATING ALTITUDE	Below 650 ft AGL (ceiling >15,000 ft MSL)
LAUNCH METHOD	Self-contained launcher for ground, air and maritime
LETHALITY	Precision strike with anti-armor warhead

KEY FEATURES

» *Patented wave-off feature and recommit capability*

» *Intuitive touch tablet controller*

» *< 10 minute system setup and 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

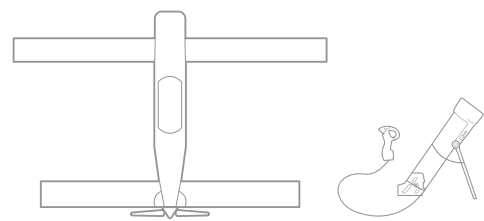*Mission Planning on Tablet Controller*

Integrated Training Simulator (T-sim)

Antenna and GCS

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
10 km

»ENDURANCE
15 minutes
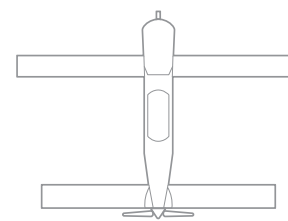
»SPEED
Cruise: 63 mph,
Dash: 100 mph

»EFFECTS ON TARGET
Anti-personnel effects

GROUND CONTROL SYSTEM	Interoperable with Common Ground Control Station for Puma™ AE, Raven® and Wasp® AE
TARGETING OPTICS	Dual front and side look EO cameras and IR nose camera, Stabilized electronic pan-tilt-zoom
OPERATING ALTITUDE	Below 500 ft AGL (ceiling >15,000 ft MSL)
LAUNCH METHOD	Self-contained ground launch and multipack
LETHALITY	Precision strike with Northrup Grumman advanced munition

KEY FEATURES

» *Patented wave-off feature and recommit capability*

» *Automated waypoint navigation*

» *Backpackable*

» *< 2 minute setup and launch*

BLACKWING™ LOITERING RECONNAISSANCE SYSTEM

DIMENSIONS
Wingspan: 27 in (68.6 cm)
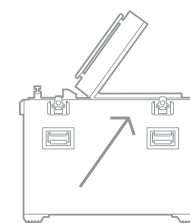Length: 19.5 in (49.5 cm)
Diameter: 3 in (7.6 cm)

WEIGHT
4 lb (1.8 kg)

SENSORS	Integrated EO/IR sensors—day/night operations
LAUNCH METHOD	Underwater-to-air delivery canister, tube, MPL

KEY FEATURES

» *Rapid launch—rapid response ISR*

» *C3 Tactical data relay—UAS to UUV*

» *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 ship board use
POWER	Solar panel and 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*

AV
AeroVironment™