Serious Simulations

sUAS Instrumented Payload

for Live FoF Training

Product Overview

Components

UAS-K Kill indicator
Flag, siren, LED lights

UAS-Laser Detector
MILES detector

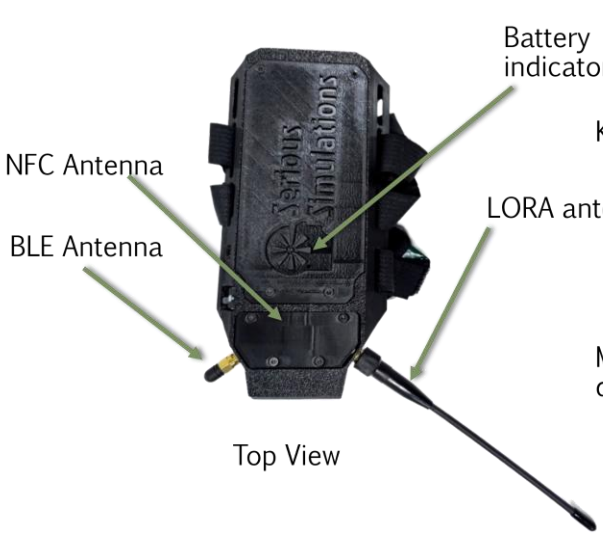
UAS-M Detonator
To enable suicide attacks

UAS-Munition Dropper
Simulated munition carrier/dropper

UAS-IPU Individual Player Unit
Data reporting to training architecture



sUAS LIVE FoF Instrumented Payload





Payload Features

LORA antenna
Links to payload or drone controller

BLE antenna
Links to laser detector and IPU

NFC antenna
Enables quick pairing

Battery indicator

Kill indicator LEDs, flag, siren

MILES detector
Enables MILES ground fire

Siren
Loud audio signatures

Proximity Tech signal port (detonator)

Universal attachment
To a variety of drones



Payload controller attached to drone controller

Instrumented training designed to support realistic small unit sUAS missions

ATTACK	DEFEND	MUNITION DROP
Kamikaze / Suicide sUAS	**Counter-sUAS training**	**Munition Drop**
Detonates at programmed height or on command	MILES direct fire	Instrumented or inert grenades and munitions

Instrumentation Features

UAS-M	**sUAS Munition Module** Detonator module for kamikaze attacks; dropped-munition module for Force on Force (FoF) and Force on Target (FoT) training.	
UAS-K	**sUAS Kill Indicator Module** Provides visual and audio indicators for MILES engagements.	
UAS-IPU	**sUAS Instrumented Player Unit Module** Provides an instrumented player-unit component within the training architecture.	
UAS-LD	**sUAS Laser Detector Module** Laser-detection component for instrumented training.	

Training Enablers

- Enables live FoF training for one way attacks and munition drops
- Compatible with MILES, UL or STE architecture
- Kill indicators help identify “dead” drones when exiting the training area
- Tracks mission dynamics and provides rich data to the training architecture
- Accommodates a variety of sUAS airframes
- Trains sUAS operators and other exercise participants
- Reusable for thousands of missions



Above: An attack drone with the instrumentation, triggers a U.S. Army VTESS SYSTEM

Dropped-Munition Training Modes

Live Force on Force (FoF)

- Dropped instrumented grenades
- Dropped inert bomblets with aerial detonations

Force on Target (FoT)

- Dropped instrumented grenades and mines on instrumented targets

CURRENT INTEGRATIONS GDMS IPU • GDMS IR Detectors • TITENN ATAK • Envision data stream

For more information, visit our website at www.serioussimulations.com | Inquiries: info@serioussimulations.com