



## Heavy Stationary Armor Target – Flank (HSAT)

InVeris Training Solutions' Heavy Stationary Armor Target – Flank (HSAT) exposes and conceals frontal and flank armor vehicle silhouettes and adapts to different range environments, infrastructures and operational constraints.

The HSAT exposes within 7-10 seconds and conceals in 8 seconds or less. Responding to pre-programmed commands in scenario or direct operator command, the HSAT conceals on command, at the end of a timed exposure or upon kill. Providing selectable numbers of hits to kill, the HSAT offers three kill reactions including hit-hold, hit-fall and hit-bob. The target system also includes contact hit sensors with 15 levels of sensitivity, remotely selectable from the InVeris Range Control System (RCS).

The range operator can command a target group to respond in unison so a hit on one target initiates all targets in the group to fall or respond as directed. Each target within the group retains its own unique address and is capable of reacting individually to commands. No cabling is necessary to group target mechanisms, allowing easy integration of target systems. The target attributes may be changed to reflect differing scenarios, and stay in that state until they are changed again or the HSAT power is cycled to return to default settings.

All InVeris actuator enclosures are built of steel using military grade connectors. Extremely reliable and rugged, InVeris HSATs perform in the harshest climates and do not contain hydraulic fluids, contaminants, or hazardous toxins capable of release into the environment. The target systems are dependable, flexible, and support both skills qualifications training events and more complex unit collective training events. InVeris Training Solutions has successfully fielded thousands of armor target systems around the world, adapting to varied range and environmental situations to recreate real-world training scenarios.

## HSAT Specifications

Specification	Value
Communication	VHF, UHF, Ethernet, Wi-Fi, Fiber, MUX
Power	24VDC, 120VAC, 230VAC 50/60Hz
Dimensions	25in (63cm) H x 24in (60cm) W x 45in (113cm) L
Actuator Weight	260 lbs (118 kg)
Expose/Conceal Time	Expose less than 10 seconds, conceal less than 8 seconds
Hit Sensing	600 hits/minute
Stackable	Yes
Self-Test	Standard power on self-test
Watertight	IP67
Wind	35 mph (56 kph)
Temperature	-20°F (-29°C) to +140°F (+60°C) operation
Decelerates	9 mph (15 kph) thru turns
Op Tempo	7 cycles/hour - 100 cycles/day
Ammo	Up to .50 cal
Silhouette 276in (700cm)	Capable of displaying frontal and flank vehicle silhouettes up to 400lbs (181kg) and wide x 90.5in (230cm) high including all standard flank silhouettes per US Army TC25-8, in sustaining winds up to 35 mph. 132 in (335cm) L x 87in (220cm) x 150lb (68kg). Silhouette base max 63in (160cm) above emplacement floor
Other	Initiates muzzle flash and moonlight simulators, sound and battle effects and MILES. Capable of powering and controlling thermal targets/heat pads

## Examples of Fielded SATs

