



ForceField

Edge AI Force Protection Solution
for Maneuvering Forces



Detect-to-Defeat System Against FPV & sUAS Threats

Modern battlefields demand unwavering readiness for worst-case scenarios. Threats converge at speed and volume from every direction, overwhelming traditional weapon stations and degrading crew survivability.

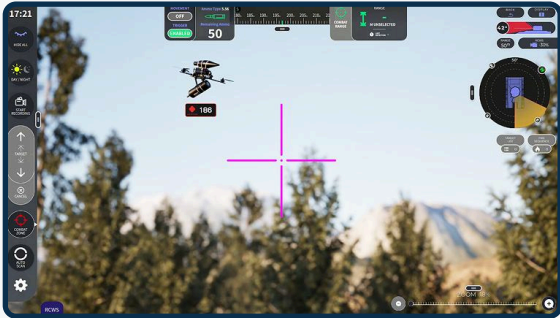
On the ever-changing battlefield, ForceField is a constant. An Edge AI Force-Protection Solution that combines AI-powered perception, threat- detecting, understanding and rapid response into a single operational capability. Unlike conventional weapon stations that rely on narrow, weapon-mounted optics, limiting both awareness and engagement to a single line of sight, ForceField provides persistent 360° awareness to support faster detection, understanding and response across air and ground threats.

Its electro-optic and thermal signature-based detection identifies the full spectrum of aerial threats. This capability enables reliable detection of small aerial threats, including FPV drones and sUAS, across wide range of operational environments & conditions.

Once a threat enters the battlespace, ForceField autonomously detects, tracks, classifies, and prioritizes targets - then slews to engage, closing the gap from awareness to neutralization in seconds.



FORCEFIELD BRINGS TOGETHER THREE CRITICAL OPERATIONAL CAPABILITIES INTO A SINGLE SYSTEM:

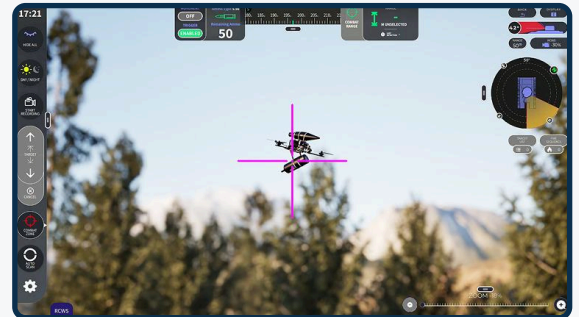


01 | DETECT

A 360° persistent sensor array of day and night cameras covers both ground and aerial threats, including overhead blind spots vulnerable to top-attack FPV drones.

02 | UNDERSTAND

ForceField classifies, tracks and prioritizes detected threats in real time, alerting the crew and helping them identify what matters most and determine the appropriate response.



03 | RESPOND

ForceField can automatically trigger its integrated weapon system to engage prioritized threats within seconds, while maintaining a man-on-the-loop control mechanism aligned with the applicable operational rules of engagement.

Deploy Across manned and unmanned platforms



Armored vehicles



Fixed structures



Masts & Towers



Forward operating bases



Features

01

BUILT AROUND EXISTING PLATFORMS

Deployable across armored, wheeled, and fixed platforms without platform-specific redesign.

02

RAPID SIMPLE INTEGRATION

Compatible with existing vehicle C2 and RCWS architectures, reducing integration time, engineering overhead, and program risk.

03

MODULAR BY DESIGN

Can operate as a complete solution or integrate selected capabilities into existing layered defense architectures.

04

OPERATIONALLY VALIDATED AI

Algorithms trained and validated using real operational data and field-driven threat scenarios.

Benefits



CREW SURVIVABILITY

Supports faster response while reducing crew workload and preserving the applicable human control model.



FULL-HEMISPHERE COVERAGE

Persistent 360° coverage regardless of vehicle orientation or threat direction.



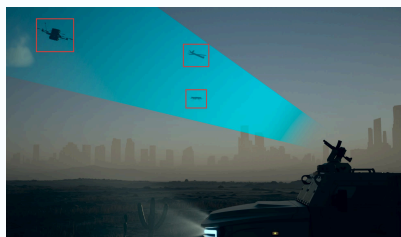
COMPRESSED KILL CHAIN

Integrated sensor-to-shooter architecture collapses detection-to-engagement latency to seconds.



MULTI-AXIS THREAT RESPONSE

Dynamic prioritization and uniquely fast slew enable simultaneous engagement sequencing to multiple directions without operator overload.



REDUCED OPERATOR BURDEN

AI handles detection, classification, and targeting, as well as alerting the operator on incoming threat. The operator retains authority without becoming the bottleneck.



FIELD-PROVEN RELIABILITY

Validated through extensive live-fire trials and progressive customer engagement, reducing operational and integration risk. Built on Axon Vision's mature Edge AI foundation, developed in close collaboration with operational users.



PRODUCT SPECIFICATIONS

EFFECTOR & SYSTEM

Two-Axis Gimbal	Ultra-fast slew
Stabilization	IMU based
Weapon	M4 or similar 5.56mm
Threat Coverage	FPV, sUAS & personnel
Response	Rapid detect-to-defeat

SENSORS

Inertial	IMU or GNSS
Sensor	LWIR + EO
Resolution	High-resolution EO & SD LWIR
Sensor Coverage FOV	180° azimuth + elevated coverage per unit

PHYSICAL CHARACTERISTICS

Base	55×47×18 cm
Gimbal	40×40×30 cm
Weight	~30 KG (excl. weapon)

ENVIRONMENTAL

Operating Temp	-30°C : +60°C
Vibration	Designed to military standards
Operating Shock	Designed to military standards
Environment	According to MIL-STD-810
EMI/RFI	According to MIL-STD-461

ELECTRICAL INTERFACE

Power	24 VDC
Consumption	Within vehicle power budget, Peak consumption <500W

ABOUT AXON-VISION

Axon Vision builds operational solutions that bridge the gap between sensing a threat and neutralizing it. Running at the tactical edge, the company's systems transform sensor data into actionable decisions, keeping the human in the loop while compressing response times to seconds, or sub-seconds, in autonomous missions.

Built on long standing combat experience, and open, platform-agnostic architecture, Axon Vision solutions integrate sensors and effectors seamlessly across a wide range of existing military platforms. Continuously trained on operational data, it forges a battlefield advantage no lab can replicate.

Axon Vision systems are already deployed in operational military platforms worldwide, through strategic partnerships with leading multinational defense companies and operational users.

