Auterion

SLM-10 STACK

Visual targeting and intercept stack for autonomous strike drones

SLM-10 is a software-driven visual tracking and intercept capability for Skynode-powered unmanned vehicles

Next-generation, low-cost attritable loitering munitions require resilient, software-defined visual guidance. The SLM-10 software stack uses the integrated compute module and a visual sensor to deploy an autonomous terminal flight mode to your vehicle. Developed for Skynode and battle-tested throughout development, the Auterion Track & Intercept app enables operators of all skill levels to tap or click and engage targets in contested, GPS-denied environments.

Minimally trained operators can identify object and place tracker near the object

The drone will fly to the object with no manual piloting required, and even if link is lost (operator configurable)

The Auterion SLM-10 Reference Design is an example of an optimized system for integration with the SLM-10 SW Stack

- Skynode S onboard mission computer running AuterionOS
- 25km range
  20 minute endurance
  with 1.5kg payload
- 10″ Quadcopter
- SW-defined digital datalink
- Designed for GPS-denied operation
- Flat-packable to ease logistics footprint
- Low-cost MIPI camera (e.g. IMX 900)
- Vendor-agnostic munition integration

- Fully integrated with AuterionOS, AuterionSDK, and Auterion Mission Control
- Onboard deployment enables continued execution, even after link loss in degraded environments
- Designed for GPS-denied operation
- Engage static and moving targets from over 1000m
- MOSA-compatible and vendor-agnostic payload integration supporting rapid partner onboarding
- Operationally validated with Kraken Kinetics munition payloads
- Easy integration or retrofit with an Auterion-provided kit
- Reduces operator burden and training requirements from weeks to hours
- Software-defined capability that is interoperable, upgradeable, and deployable across platforms
- Optional fiber connection for modular EW resistance in highly contested environments
- EO/IR Compatible

Integrated Kinetic Capability

Operationally validated munition payload integration for SLM-10 systems

Kraken Kinetics fuse controls within Mission Control

SLM-10 supports operationally validated integration with Kraken Kinetics munition payloads for autonomous strike systems. Built on an open, software-defined architecture, the platform enables rapid interoperability across Skynode-enabled systems.

Payload Integration

- Fuse controls integrated into Auterion Mission Control
- Mechanical, electrical, and software payload interfaces
- Compatible with Skynode-powered systems
- Designed for operation in contested and GNSS-denied environments

Kraken Kinetics Operational Validation

- Validated in live operator-led kinetic engagements
- Executed three SLM-10 kinetic strikes to include anti-armor and anti-personnel at 29 Palms
- Demonstrated live-fire swarm of four SLM-10s at Camp Blanding, FL