VICTUS

PhantomSIGHT™

Operator-Trained Target Detection

PhantomSIGHT™ is our Field-trainable Automatic Target Recognition (ATR) for unmanned systems. From operator-supplied imagery to a deployed detection model in hours — running on Commercial Off-The-Shelf (COTS) edge compute. No specialized machine-learning team required, no cloud dependency, no model black box. Group 1–3 software deployment for Unmanned Aerial Systems (UAS), ground robotics, and surface and sub-surface vessels.

01 CORE CAPABILITIES

Few-Shot Fine-Tuning
Mission-relevant detection from as few as five labeled images.

Automated Label Tracking
Operator-defined target labels propagate across frames — train to specific subjects of interest, not pixels.

Detection Stabilization
Multi-stage temporal filtering eliminates frame flicker.

Plugin Augmentation
Geometric, environmental, camouflage, and copy-paste strategies.

Air-Gapped Capable
Full pipeline runs without external network connectivity. inference compute.

02 OPERATOR PIPELINE

STEP 01
Capture
Collect imagery and video from the platform's onboard sensor feed.

STEP 02
Annotate
Operator labels targets directly in the field through a lightweight interface.

STEP 03
Train
Fine-tune the detector on the newly labeled targets, at the edge or in garrison.

STEP 04
Validate
Confirm detection accuracy and stability against held-out labeled data before fielding.

STEP 05
Deploy
Push the updated model to onboard edge compute for real-time inference.

VALIDATED PLATFORM PERFORMANCE

INFERENCE SPEED	25 FPS: Real-time onboard inference
DETECTION ACCURACY	80.3%: Validated across evaluation test scenarios
MODEL FOOTPRINT	23 MB: Deployed model size at the edge
MATURITY	TRL 7: Air domain, YOLOE-based ATR

PLATFORM APPLICABILITY

AIR CURRENT
MARITIME ROADMAP
SUBSEA ROADMAP
GROUND ROADMAP
ORBIT ROADMAP

Field-trainable Automatic Target Recognition (ATR). Operator-supplied imagery to a deployed model in hours, running on COTS edge compute.

NEXT STEP — SCHEDULE A CAPABILITY BRIEF

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