

VICTUS

PhantomSIGHT™

Operator-Trained Target Detection

PhantomSIGHT™ (TRL-7) 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.
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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.
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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



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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