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Patria 8×8 Infantry Fighting Vehicle Simulator

next generation universal visualization platform for your training success

Advanced Armored Vehicle Training by VRM

The VRM Patria 8×8 Full Mission Simulator delivers **high-fidelity training** for armored vehicle crews in a **safe, repeatable, and cost-effective environment**. Designed for **individual and collective training**, it replicates all major functions of the Patria AMV 8×8, enabling soldiers to prepare for combat missions under **realistic tactical, environmental, and operational conditions**.

Reliable, Scalable, and Cost-Effective Training

The Patria 8×8 Full Mission Simulator provides **cost-efficient, high-fidelity training** that builds mission readiness while minimizing risk and resource expenditure.

Defined Mission Goals of the Simulator

- Develop **individual and group crew skills** in realistic conditions
- Replicate **turret features, weapon systems, and combat behaviors**
- Enable **synchronized communication** between crew and instructor
- Provide **methodical training sequences** selected from the Instructor Operating Station (IOS)
- Create **interactive opportunities for combat tactics training**
- Simulate **emergency procedures and system failures**
- Reproduce **environmental conditions**: weather, visibility, day/night, terrain
- Configure **weapon loadouts and mission parameters**



Comprehensive Training Features

- Driving, detection, identification, aiming, and firing training
- Tactical exercises including **convoy, defense, and decision-making**
- Independent simulation for **commander, driver, and gunner stations**
- Full-scale replica of **Patria AMV 8x8 interior and controls**
- **Integrated armament use** with ballistic protection modeling
- **Immersive visual systems** and motion feedback
- **Instructor monitoring, scenario customization, and after-action review**

System Architecture and Simulation Models

- **Open modular system design** for modernization and COTS integration
- **Vehicle Dynamics Model (VDM)**: simulates ground and amphibious performance under normal, abnormal, and emergency conditions
- **Environmental effects simulation**: wind, snow, rain, icing, visibility, day/night cycles
- **High-fidelity system models** replicating physical and logical operation of real subsystems, including accurate failure modes
- **Scalable architecture**: standalone or networked deployment, supporting single-vehicle to platoon-level or larger multi-vehicle training