

# Air Defense Training Solutions

## Live and Virtual Training

### Major advantages

- Cost-effective operational experience in modern air defense warfare
- High level of realism in weapon system modeling
- Improves individual proficiency as well as team coordination
- Easy plug-in of external simulators for joint training
- Serves as a battle lab, allowing research and experimentation for systems and doctrines
- Flexibility and versatility suited to customer requirements
- Provides situational awareness in the form of a recognized Air Situation Picture to the Air Defense Artillery, C<sup>2</sup> agency, platoon, and individual FU
- Complete training cycle: mission planning, training and after action review
- Debriefing capabilities, including time-axis control

### Technical information

- Networked multi-station configuration
- Architecture ensures minimal visual and data delays
- Uses international interface standards for station and simulator connectivity
- Enhanced high-end visual system with geo-specific terrain and visual database
- PC-based Commercial-Of-The-Shelf equipment



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TRAINING & SIMULATION

## Air Training Systems

### Live Training



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## Operational excellence in air defense warfare

Elbit Systems' comprehensive suite of field-proven products for advanced air defense training, delivers a superior training and simulation experience to air defense weapon station and command and control (C2) personnel of all levels. These products are available for both standalone and integrated implementations and can be tailored to each customer's unique characteristics and requirements.

Proficient C2 is a vital component of any air defense solution, Elbit Systems' solution provides training for the next-generation of air defense central C2, both at the fire unit (FU) level and at higher command levels.

### Live Air Defense Training System

Embedded into actual firing units, the Live Air Defense Training System allows participants to train at their weapon stations within a virtual environment. The system addresses the entire air defense operational cycle - detection, classification, engagement and kill assessment - and can be interlinked to actual fighter aircraft using Elbit System's advanced proprietary simulation data link solution.

#### Key features

- Integrated training capability - supports various weapon types, including actual FU weapon systems
- Multi-level training - from crew and platoon level up to system level
- Unique hybrid training scenarios including real and virtual targets
- Contains high-fidelity simulation models, virtual weapon engagements and kill assessment calculations
- High-efficiency proprietary data link algorithm enables rangeless training and consistency among all training participants



### Air Defense Simulator (ADS)

The ADS is a cutting-edge indoor training facility that provides a simulated environment which is ideal for combining training of short-range air defense weapon systems with varying operational and environmental conditions. To ensure mission readiness, the ADS utilizes a powerful proprietary scenario generator that supports a large number of simultaneous entities. The ADS offers multi-level training, from crew and platoon level up to large-scale system training for multiple users.

#### Key features

- Contains trainee stations for all participants
- Accurate replication of the Air Defence Artillery (ADA) systems - complete form-fit-function to actual ADA weapons
- Command post leader
- High-fidelity simulation of virtual blue and red forces
- Training of detection, recognition and identification proficiencies
- Support for various weapon and RADAR systems based on roll-in/roll-out architecture
- Advanced instructor operator station to control complex scenarios provides flexible and user-friendly means for training management
- Completely scalable; supports multiple or multi-participant exercises
- Supports various types of entities (performance and modeling) including both blue and red forces
- Enables "Chain of command" training

