

# AIR DEFENSE OPTIMIZER

## Accelerating & Simplifying Air Defense Decision-Making

### A Game-Changing Leap in Air Defense Performance

Today's continuously evolving global air defense arena is overloaded with information streaming in from a multitude of sources. Coping with this challenging reality has – until now – required a significant investment in time, as well as experienced personnel utilizing an array of tools, in order to leverage the vast amount of incoming data.

Creating a remarkable new reality, AIR DEFENSE OPTIMIZER makes air defense planning, real-time battle management, and post-mission analysis exceptionally fast, efficient and accurate. The planning of an operational air defense setup previously took up to 12 hours – but now, with AIR DEFENSE OPTIMIZER's state-of-the-art algorithms, it takes only a few seconds!

Providing a user-friendly interface, AIR DEFENSE OPTIMIZER runs on local or network clients, with no need for cumbersome infrastructure. The revolutionary, comprehensive system brings defense optimization to your fingertips, enabling instantaneous decisions and effective action covering all aspects of air defense, while decreasing costs and the use of resources.

### Benefits

- Using what you have
- Defense & Offence planning and analysis
- Reduces decision-making time to seconds
- Includes planning, battle management and debriefing capabilities
- Provides AI recommendations
- Delivers high level fidelity 85% results accuracy
- Can decrease costs and resources
- Combines any mix of high & low-tech systems
- Growth capability
- Admin capabilities



## Harnessing Today's Most Sophisticated Technologies

Leveraging Artificial Intelligence (AI), advanced algorithms, and the latest data processing and big data capabilities, AIR DEFENSE OPTIMIZER analyzes vast amounts of data from multiple systems on land, at sea, and in the air, including armaments such as missiles and cannons.

Utilizing this extensive and wide-ranging input, the system enables ultra-smart planning, battle management, and debriefing.

Vendor-agnostic & 100% future-proof, AIR DEFENSE OPTIMIZER easily integrates all types of assets as needed, including high tech as well as low tech, C4I, legacy and advanced weapon systems, a wide range of sensors such as RADAR and Electro-Optics, and other military and civilian resources – enabling the full utilization of every arsenal's potential.

## Setup Phases

AIR DEFENSE OPTIMIZER provides 3 setup phases – Planning, Battle Management, and Debriefing.

The Planning Phase enables comprehensive planning down to the smallest details, with predicted outcomes based on input from multiple sources regarding a wide range of parameters. All data is preserved for future use, including deployment and defense plans and analyses of alternatives.

The Battle Management Phase enables 'What now?' queries & provides instantaneous analysis and outcomes based on (and not limited to) real-time input from multiple sources regarding the battle, as well as predictions about the effects of operational changes on performance and level of defense, presented as a percentage. Actions can be recommended to improve overall effectiveness.

The Debriefing & Analysis Phase provides scenario analyses including post-battle 'What If?' queries covering the performance of both friendly and enemy forces. Actionable lessons maximize insights and enable improvement of planning capabilities & future air defense performance.



AIR & MISSILE DEFENSE SYSTEMS DIVISION

Tel: +(972)73-336-7980

Fax: +(972)73-336-7974

Email: Nirbarn@rafael.co.il

HQ Tel: +(972)73-335-4714

Fax: +(972)73-335-4657

Email: Intl-mkt@rafael.co.il

[www.rafael.co.il](http://www.rafael.co.il)

OPERATIONAL AIR DEFENSE OPTIMIZER™ is a Trademark of RAFAEL Advanced Defense Systems Ltd.

DM.42898528 UNC.63063/07.19 V1 ENG/Graphic Design Dep/042