



OERLIKON SKYMASTER®

COMMAND AND CONTROL SYSTEM

The Oerlikon Skymaster® is a versatile command and control (C2) solution for different levels of command that significantly enhances ground based air defence operational capabilities. Its main operational benefits are the display of a common comprehensive air picture based on all available information sources, an effective real time threat evaluation and smart weapon assignment algorithm, heterogeneous weapon systems coordination and fire control in a flexible system architecture.

Oerlikon Skymaster® is the optimal C2 solution for the flexible Oerlikon Skydex® air defence concept and guarantees the best possible system performance. It coordinates all networked ground-to-air defence systems such as VSHORAD, SHORAD and medium-range weapons with real-time data exchange mechanisms.

MAIN FEATURES

- Air defence system command and control
- Air picture compilation
- Tactical operator support
- Operational support

SYSTEM BENEFITS

Oerlikon Skymaster® can adapt to changing operational demands with seamless planning and tasking, monitoring and the control and execution of the full spectrum of air and missile defence operations. Oerlikon Skymaster® is an open-architecture, air C4I solution. It delivers a single, integrated air picture and common situational awareness through command and control systems that are both scalable and interoperable.

With its embedded 'plug and fight' capability, Oerlikon Skymaster® enables customers to integrate and optimize their legacy systems. It also enables operators to keep track of all air assets in real time to ensure that weapon systems are prepared to immediately respond to threats.

Oerlikon Skymaster® provides relevant capabilities to operate 24/7 protection of a vital asset, a zone or territory against all airborne threats. Operators work efficiently at configurable consoles with role-based, state-of-the-art user interfaces, minimizing stress and maximizing efficiency. As a consequence the number of operators is kept at a minimum.

Built-in data processing and automation assists the operators in taking correct decisions quickly. Particularly the inherent C-RAM (counter-rocket/artillery/mortar) capability relies on automated procedures to deal efficiently with such threats.

Using the interfacing capabilities a seamless integration in the command of chain with existing (netted) command and control infrastructure is achieved. Thus the interoperability with higher echelon C2 systems or neighbouring forces is assured.

AIR DEFENCE SYSTEM COMMAND AND CONTROL

- Operation of tactical and operative air defence networks
- Total situational awareness on all command levels
- Hierarchical cascadability of Skymaster control nodes
- 'Plug and fight' capability for flexible system configuration
- Digital network communication by means of land lines or radio links

AIR PICTURE COMPILATION

- Multi spectrum sensor data fusion
- Target identification
- Comprehensive air picture generation and display
- Control of all connected sensors
- Information exchange with air traffic control
- Support of air space control means

TACTICAL OPERATOR SUPPORT

- Centralized and decentralized battle management functionality
- Graceful degradation capability
- Automated threat evaluation and weapon assignment
- Automated engagement recommendations for the targets based on the threat level
- Manual or automatic weapon engagement control for several weapons on one console
- High safety standards for friend protection (including IFF functionality)

OPERATIONAL SUPPORT

- Mission planning system
- Data logging
- Integrated training system

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