SYNTACS
Command & Control System.

SYNTACS
COMMAND AND CONTROL

ANSCHÜTZ

Command & Control designed to mission.
SYNTACS NX.

The SYNTACS command and control system is designed to fit the growing mission profiles of naval platforms like off-shore patrol vessels, high-speed interceptors and minehunting vessels. As a very effective system of systems, it encompasses a common operating maritime picture, tactical navigation, mission planning, mission execution and near-shore combat capabilities.
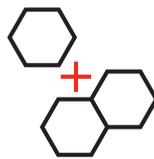
Key Benefits

Maximum mission performance

SYNTACS compiles an immediate, comprehensive maritime picture to support mission success.

- Significantly enhanced situational awareness through a consistent common operating picture, which also enables interoperability among crewed-uncrewed teaming operations
- Comprehensive features enable full command of the scene from a single workstation
- Combining navigation, command-and-control and combat systems on multifunction workstations improves platform capabilities regarding accurate and safe mission execution

Customised capability upgrades

Scalable functions for navigation, tactical command, sensors / effector control, and communications.

- Additional situational awareness, tactical operation and self-defence capabilities for the CIC or the bridge, saving space by using multi-functional workstations
- Various scalable extension options to adapt to different missions and individual requirements
- Sensor-agnostic system for seamless integration and add-on, replacement or removal of individual components
- Wide-ranging tactical functions and system modules, tailor-made for mission requirements
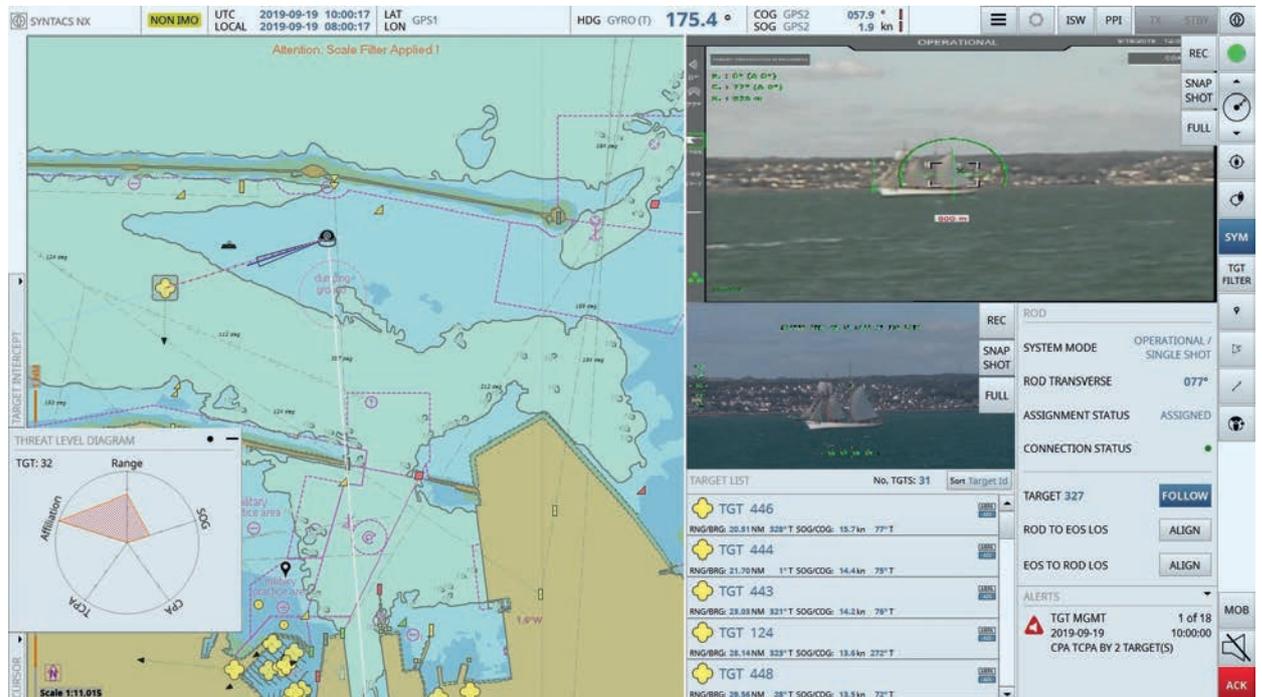
Effective and free of risk

SYNTACS is a tailor-made and cost-effective solution: you only pay for what you need!

- Single responsible contractor for development, integration, supply and support
- Highly affordable system and low lifecycle cost (built on COTS technology)
- Standardised hardware makes spare parts logistics easier and more flexible
- Reduced need for training because of standardised user interfaces
- Customer-proven system with dozens of systems already delivered

SYNTACS features and modules

SYNTACS forms a system of systems and integrates data from multiple onboard sensors. These include navigation or surveillance radars, sonars, video from electro-optical or visual surveillance systems, data from navigational and automation systems, and ballistic modules that control weapon stations. SYNTACS correlates data of all organic and external sensor information and compiles a comprehensive dashboard for the operating picture.

Main Features

SYNTACS is a modular command & control system for a wide range of missions, providing advanced tactical functions and allowing the integration of multiple sensors and effectors.

- Integration on multifunctional workstations with intuitive user interfaces
- Dashboard showing maritime environment with freely movable sea chart
- Extensive classification possibilities and tools for tactical manoeuvres
- Track presentation based on MIL-STD-2525 or others
- Track list and track history
- Track filtering controls (range affiliation, source and alarm status)
- Tactical intercept heading-/speed recommendation
- Display of sensor range and current alignment
- Alarm zones and safety areas with freely configurable parameters
- Intelligent alarm management throughout the entire system
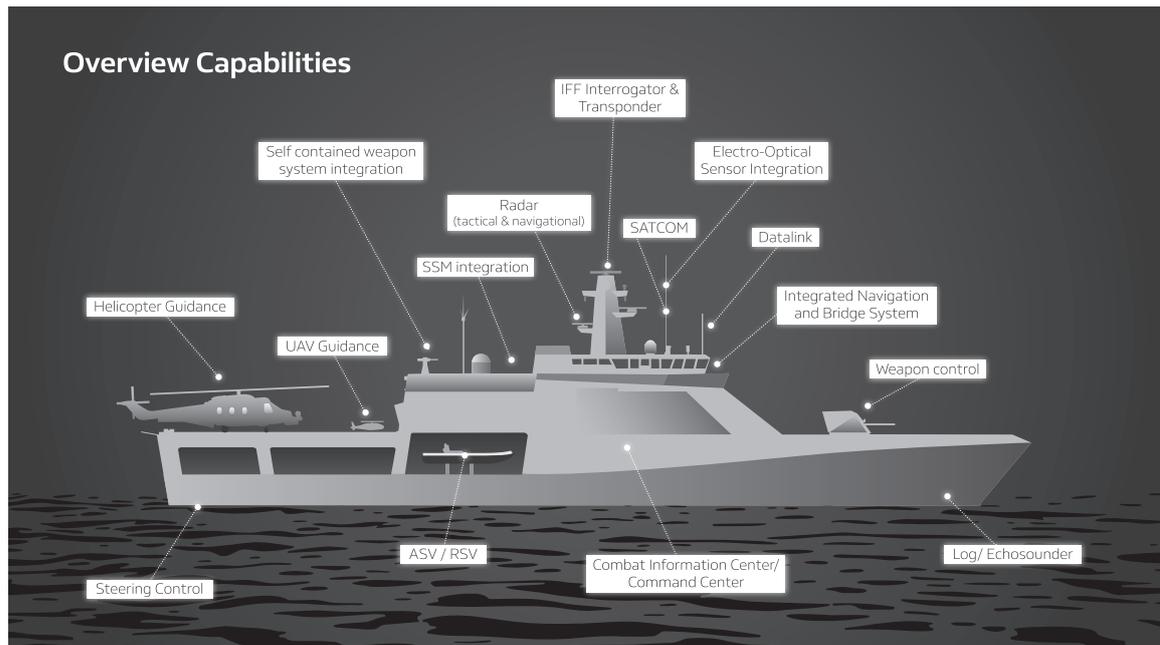
Modules

- Electro-optical sensor integration
- Task force & helicopter management
- Mission management
- Hydrographic survey
- Mine countermeasure
- Search and rescue
- Mission data recording
- Tactical data links
- USV remote control
- Fire control system
- Fire-and-forget missile integration
- Integration of weapon control

Anschütz mission systems: capabilities and fields of operation

Anschütz is an experienced integrator of customised navigation and mission systems. We have developed a ship-specific mission system within tight budgets, which effectively supports the crews on board through high mission performance, ease of use, and low training requirements. With comprehensive after-sales services, we support our customers throughout the lifetime of the system.

The core of our mission system solutions is the SYNTACS Command & Control system. With SYNTACS, we provide customers with the basic capability for above-water warfare missions. This ranges from critical infrastructure protection to maritime interdiction operations, low- to medium-intensity combat management, but also the special capability for mine countermeasure missions.

Overview Capabilities

IFF Interrogator & Transponder

Self contained weapon system integration

Electro-Optical Sensor Integration

Radar (tactical & navigational)

SATCOM

Datalink

SSM integration

Helicopter Guidance

Integrated Navigation and Bridge System

UAV Guidance

Weapon control

ASV / RSV

Combat Information Center/ Command Center

Log/ Echosounder

Steering Control

SYNTACS for patrol boats

SYNTACS compiles an operational picture from the data and presents the operator with a clearly structured dashboard for tactical navigation, mission planning and execution, as well as basic combat capability. Capabilities also include a solid-state radar for surveillance and navigation, alarm and guard zones with intercept capability, search and rescue, data links to share a common operational picture, and the integration of self-contained weapon systems.

SYNTACS for offshore patrol vessels

SYNTACS' multifunctional, space-saving workplaces are suited for vessels with a short path between navigation and operation in the combat information centre, making SYNTACS smart for OPVs, navies or coast guards. It offers a comprehensive maritime picture with tailor-made features, alarm and guard zones, search and rescue, an integrated electro-optical system and surveillance radars, helicopter guidance, tactical data links and mission data recording.

SYNTACS for mine countermeasure (MCM) vessels

The SYNTACS MCM module provides the capabilities required to plan, execute, coordinate and monitor mine countermeasure missions. With the highest precision, suspicious objects are pinpointed on the tactical chart display in real time. They can then be shared with any workstation as well as with connected vessels or land stations for identification, situation assessment or warning. SYNTACS also integrates AUV and USV and sonar systems.