ELECTRONICS DIVISION

NA-30S MK2

MULTI-SENSOR WEAPON CONTROL SYSTEM

NA-30S MK2 is a new generation Weapon Control System designed to control modern guns (up to three) against conventional and asymmetric air/surface threats with a reduced reaction time.

NA-30S MK2 is based on a dual-band (X and Ka) naval tracking radar with a stealth antenna design which combines high tracking accuracy with improved range performance. Both X and Ka bands are processed in order to optimise tracking performance according to the targets.

X Band
For search and acquisition purposes, medium-to-long range detection and tracking, reliable processing in adverse weather conditions.

Ka Band
For close targets and low flying threats. It responds to the need for high accuracy. Used for DART ammunition guidance. The Ka band, with its very narrow beam width, is optimally suited for measuring targets at low-elevation, without suffering from multi-path interference.
The system can be provided with a dedicated multifunction console or can be controlled by any console within the Combat Management System (CMS).

The Weapon Control System automatically selects the optimum ammunition and firing patterns according to the tracked threats. A set of combined sensors (TV camera, IR cameras and laser) can be mounted on the radar antenna to enable firing assessment and to provide either an alternative or redundant line-of-sight. It is fully compliant with modern international military standards, guaranteeing high reliability and low total cost of ownership.
The system minimizes indoor space.

KEY FEATURES

- A State-of-art dual band technology for best in class target identification and contrast
- Guided anti sea skimmer missile DART ammunition guidance fo Close Inner Defense
- Close Inner Weapon System (CWIS) Capability enabling for 76/62 SR MF Gun
- X-Band solid-state high power transmitter and processor

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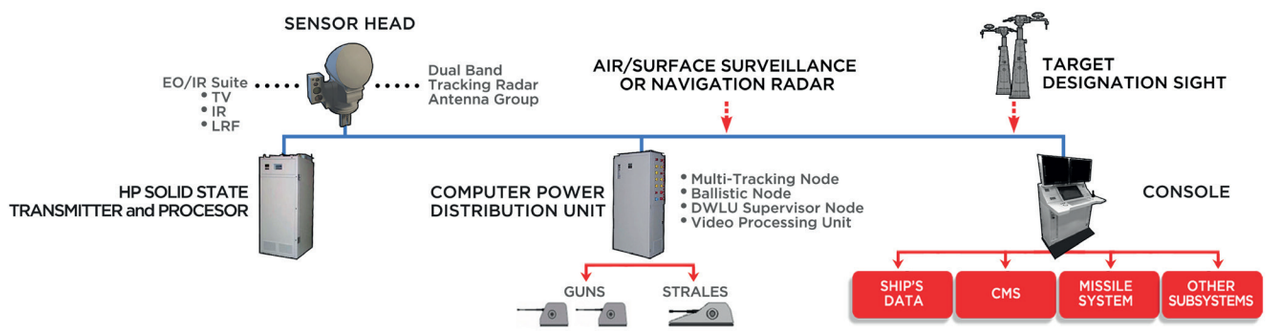
- Computer and power distribution unit to provide control of the antenna group, multi-tracking, ballistic calculation and power all in one cabinet
- Outdoor, modular stealth solution composed of Dual-band tracking radar with embedded Ka transmitter and receiver
- Optronic sensor suite, TV, IR and laser, mounted to provide alternative line-of-sight (LOS), scene monitoring and kill assessment.

MAIN OPERATIONAL FUNCTIONS

NA-30S MK2 performs the following tasks:

- Dual-band radar and optronic tracking
- Gun fire control with automatic coordination of different weapons for a combined reaction
- Automatic engagement of evaluated priority target up to firing action
- OTH (Over-The-Horizon) tracking features, applicable in the presence of environmental conditions such as RF ducting, through the use of specific waveforms (X-band)
- Reduced reaction times to allow detection, tracking and artillery response with high HIT Probability particularly against sea skimmer/high diving supersonic missiles and asymmetric threats
- DART ammunition guidance
- The NA-30S MK2 Fire Control System is optionally provided with CWI illumination for semi-active missile guidance, HRRP and panoramic surveillance features.

NA-30S MK2 is a new generation Gun Fire Control System, which combines a well proven history in the design of Fire Control Systems with cutting-edge technology.



TECHNICAL SPECIFICATIONS

Antenna Group (above deck)

Dimensions	(h) 1500mm
Diameter	1300mm
Weight (EO sensors excluded)	700kg

Safety Switch

Dimensions (HxWxD)	180x133x100mm
Weight	2kg

Computer Power Distribution Unit

Dimensions (HxWxD)	900x720x560mm
Weight	300kg

HP Solid State Transmitter and Processor

Dimensions (HxWxD)	1900x800x560mm
Weight	350kg

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