PIT-RADWAR S.A.
PRECISION
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OSU-35K NAVAL ARMAMENT SYSTEM

OSU-35K is a remotely controlled, stabilized naval weapon system equipped with a 35mm automatic gun with an independent optoelectronic target tracking system.

The latest version of the OSU-35K is a completely new structure made in carbon fiber technology. This innovation made it possible to significantly reduce the size and weight, as well as to achieve a high level of ergonomics in operation.

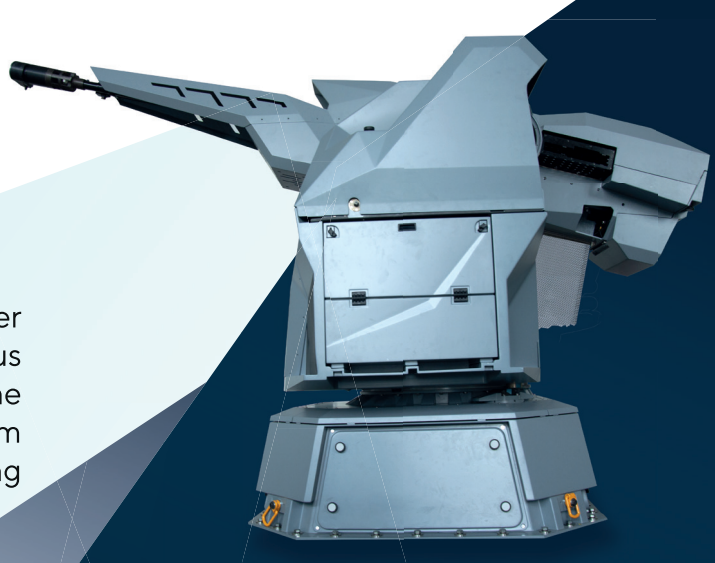
The system consists of four main elements: automatic gun system (AM-35K), an integrated observation and tracking head (ZGS-35K), fire control system unit (BSKO-35K) and a backup fire control station (RSKO-35K).

OSU-35K provides engaging air targets maneuvering with course, speed and altitude in the fire zone as well as surface targets. Designed both to integrate with CMS (Combat Management System) as well as for autonomous operation, independently of the CMS.

The open architecture of the system, its modularity and scalability allow full integration on ships of various types.

35MM REMOTE CONTROLLED STABILIZED NAVAL GUN SYSTEM (AM-35K)

AM-35K structure is made in carbon fiber technology. AM-35K can operate in autonomous mode with its own remote control console or in the integration with the combat management system (CMS). AM-35K is equipped with a target aiming camera.



AM-35K TECHNICAL DATA			
Calibre	35 mm	Operation range in Elevation	-10° to +85°
Rate of fire	max. 550 r / min.	Operation range in Azimuth	N x 360°
Weight without ammunition	3300 kg	Ammo type	FAPDS-T / TP-T / ABM
Ammunition feeding system	two-sided, chained	Max. effective range	5000m / 3500m / 3000m
Capacity of magazines	2 x 100 rounds	Camera	1920H x 1080V / 3.2 Mp

CAMERA TECHNICAL RANGE	Target (0.45 x 1.7 m^2)	Target (2.3 x 2.3 m^2)
Detection	8800 m	26600 m
Recognition	2200 m	8500 m
Identification	1700 m	6900 m

FIRE CONTROL SYSTEM UNIT (BSKO-35K)

Fire Control System Unit (BSKO-35K) executes fire control systems algorithms, provides integration of data exchange of the OSU-35K system in real time. BSKO-35K allows the system to operate in automatic, semi-automatic and manual modes. BSKO-35K ensures cooperation of the OSU-35K with CMS systems.

INTEGRATED OBSERVATION AND TRACKING HEAD ZGS-35K

The structure of the ZGS-35K is made in carbon fiber technology.

The ZGS-35K includes IR thermal imaging camera, daylight camera, high-repetition laser rangefinder, videotracker and short-range interrogator. The electric drive and stabilization systems in azimuth and elevation ensure accurate and dynamic object tracking in maritime environment.

ZGS-35K BASIC TECHNICAL DATA	
Operation range in Elevation ZGS	-10° to +85°
Operation range in Azymuth ZGS	N x 360°
Weight	145 kg
Laser range finder	
Range Read-out Limits	min. 200 m / max. 30000 m
Ranging rate	30 Hz
Laser safety classification	1M
Thermal imaging camera	
Operation wavelength	3–5 µm
Daylight camera	
Operation wavelength	350 – 700 nm

TECHNICAL RANGE OF THERMAL IMAGING CAMERA	Target (0,8 x 1,7 m²)	Target (2,3 x 2,3 m²)
Detection	11800 m	15000 m
Recognition	4330 m	7660 m
Identification	2250 m	4060 m

TECHNICAL RANGE OF DAYLIGHT CAMERA	Target (0,75 x 1,5 m²)	Target (2,3 x 2,3 m²)
Detection	8000 m	25000 m
Recognition	2000 m	6250 m
Identification	1000 m	3100 m

REDUNDANT FIRE CONTROL SYSTEM (RSKO-35K)

RSKO-35K structure is made in carbon fiber technology.

RSKO-35K is used for manual guiding of the effector using the AM-35K target aiming camera in case of BSKO-35K malfunction or lack of data from the CMS system.

OSU-35K MAIN FEATURES

- Capability of precise target engaging.
- Simultaneous engaging of various types of threats (double-sided feeding system for various types of ammunition, programmable air-burst ammunition system).
- High level of ergonomics in operation thanks to structure made in carbon fiber technology.
- Possibility of integration on ships of various types.

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