



AMULET

MISSILE SYSTEM

PURPOSE

AMULET universal missile system

is intended to equip various combat vehicles.

It is used to hit static and moving modern armored targets with combined, carried or monolithic armor, including explosive reactive armor (ERA), as well as pinpoint targets like permanent fire positions, tank in a trench, lightly armored objects, hovered helicopters, waterborne targets and manpower of enemy at any time of day or night.

System is equipped with the thermal imager in order to be effectively used in night time under adverse metrological conditions.

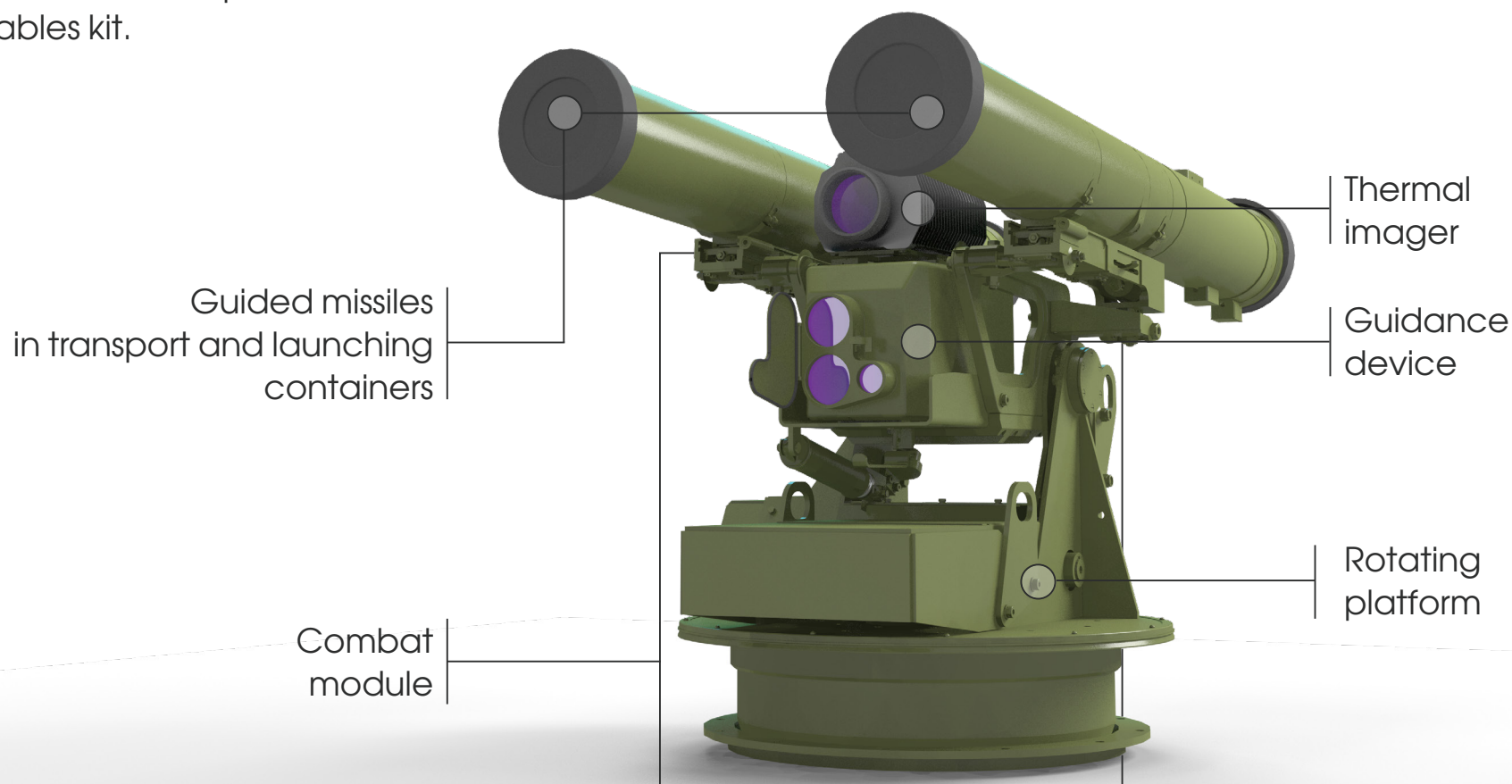
The system is completed with 130 mm and 152 mm caliber missiles in transport and launching containers with tandem hollow-charge (RK-2S, RK-2M-K) and high-explosive fragmentation (RK-2OF, RK-2M-OF) warheads.



COMPOSITION

AMULET system comprises:

- Combat module consisting of:
 - Rotating platform with launching rails for missiles,
 - Guidance device,
 - Thermal imager;
- Power control box;
- Power module;
- Missiles in the transport and launching containers (RK-2S, RK-2OF, RK-2M-K, RK-2M-OF);
- Remote control panel;
- Cables kit.



SPECIFICATIONS

COMBAT MODULE



Weight of combat module with armament, kg	385
Overall dimensions with armament, mm	1440x755x790
Maximum steering rate, °/s: <ul style="list-style-type: none">• in azimuth• in elevation	<div>5</div> <div>5</div>
Guidance angles, ...°: <ul style="list-style-type: none">• in azimuth• in elevation	<div>±360</div> <div>from minus 9 to +25</div>
Combat readiness time, min	3
Operating temperature range, °C	from minus 32 to +50

SPECIFICATIONS

ANTITANK GUIDED RK-2S and RK-2M MISSILES

	RK-2S, RK-2OF	RK-2M-K, RK-2M-OF
Target destruction range, m	100-5000	100-5100
Guidance system	semi-automatic by laser beam	
Warhead:		
• tandem hollow-charge, armor penetration behind ERA, mm	not less than 800	not less than 1000
• high-explosive fragmentation with EFP, armor penetration, mm	not less than 60	not less than 120
Weight, kg:		
• missile in transport and launching container	30	37
• warhead	6,7	9,2
Overall dimensions, mm:		
• missile caliber	130	152
• container length	1360	1435
• container outer diameter	140	162
Operating temperature range, °C	from minus 40 up to +60	



GUIDANCE DEVICE



The guidance device is intended for forming:

- video image of the target in the wide and narrow field of view,
- informational field of laser emission.

Detection / Recognition range of common ground target, m	not less than 13 500 / 5 500
Television channels angle of field of view (FOV), ...°: <ul style="list-style-type: none">• in narrow FOV• in wide FOV	1°15' x 0°50' 4°20' x 3°10'
Weight, kg	not more than 15
Overall dimensions, mm	390x196x235

THERMAL IMAGER



The thermal imager is intended for target image forming, visible in infra-red spectrum in narrow, medium and wide narrow field of view, and also for the image inversion and image quality adjusting. It is used for detection of infra-red emission in day and night time under adverse metrological conditions and also for concealed target detection.

Detection / Recognition range of the common target in night time, m	11000 / 4700
Sensor type	medium wave (MWIR), cooled
Spectral range, μm	3-5
Field of view (FOV) angles: <ul style="list-style-type: none">• in narrow FOV• in medium FOV• in wide FOV	1,80°x1,44° 6°x4,8° 35°x28°
Sensor resolution	640x512
Weight, kg	4,1
Overall dimensions, mm: <ul style="list-style-type: none">• thermal imager• thermal imager in transporting case	256x146x170 408x202x332

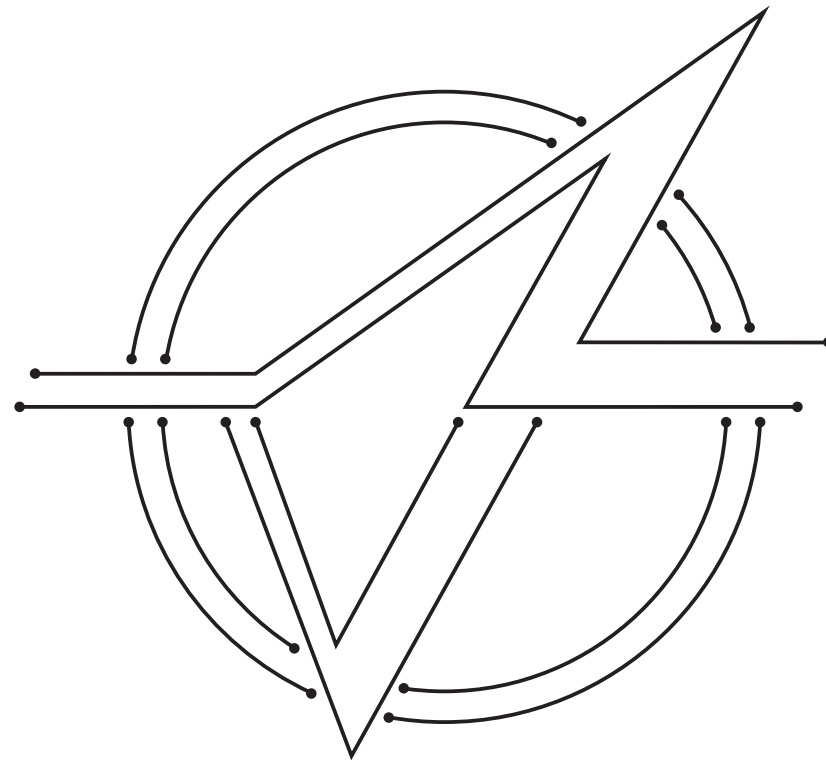
REMOTE CONTROL PANEL



Remote control panel is designed for target selection by operator, missile launch and target tracking in manual or automatic mode with possibility of remote control up to 50 m.

Structurally the remote control panel is made as increased strength case-container (IP67 dust and moisture proof) wherein the indicating unit and control unit are installed.

Screen diagonal, inches	12
Weight, kg	10
Overall dimensions, mm	415x345x205



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