



# NAUDI

---

National Association of  
Ukrainian Defense Industries

2024





## ABOUT

### CONTEXT

Before the Russian military aggression against Ukraine, in our country, there were no private defense companies.

Within the shortest timeframe, engineers and entrepreneurs who had never addressed defense and security issues managed to delve into the industry challenges and deliver on urgent tasks of Ukrainian law enforcement agencies.

According to the experts, private defense companies currently deliver approximately 60% of the state defense order

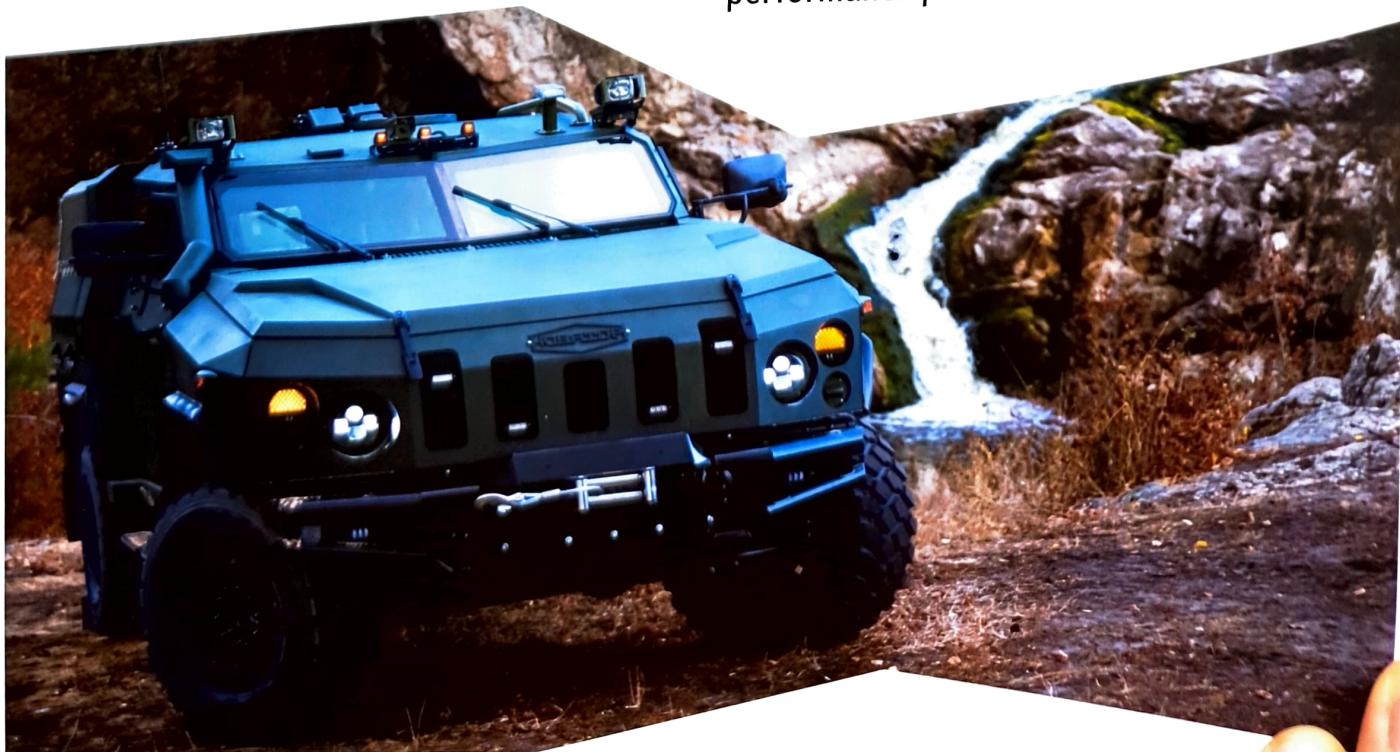
### ABOUT US

Founded in 2020, the National Association of Ukrainian Defense Industries (NAUDI) is a Union of Employer Organizations that consolidates Ukrainian producers of defense equipment, armament, and ammunition.

NAUDI is an NGO that consolidates territorial and sectoral defense industries employer organizations.

### OUR MISSION

NAUDI is committed to supplying the Ukrainian army with modern weapons, strengthening talent and production capacities of defense industries, and assisting Ukrainian companies in carving out a rightful position in the global high-performance product market.





**NAUDI**

National Association of  
Ukrainian Defense Industries

## ENTERPRISES



PRODUCTION AGRARIAN COMPANY  
“NOVA TECHNOLOGY” LLC

UADEFENSE



PROM.STANDART LLC



RUBIN-2017 LLC



SCIENTIFIC AND PRODUCTION  
ENTERPRISE “ENERGY 2000” LLC

**ALTRON**  
DEVELOPMENT AND PRODUCTION

ALTRON PJSC



LOZOVA FORGING-MECHANICAL  
PLANT (LKMZ) LLC



MASHHYDROPRIVOD LLC



STAROKRAMATORSKY  
MACHINE-BUILDING PLANT PJSC



AVIATION SYSTEMS  
OF UKRAINE LLC SPE



KHARKIV TRANSPORT  
EQUIPMENT PLANT PJSC



UKRAINIAN MILITARY  
INSURANCE COMPANY PJSC



RESEARCH AND PRODUCTION  
ASSOCIATION “SKY OF UKRAINE”  
CORPORATION

UKRAINIAN  
ARMOR

UKRAINIAN ARMOR LLC



INSTITUTE OF PROBLEMS OF  
MATHEMATICAL MACHINES AND  
SYSTEMS OF THE NATIONAL ACADEMY  
OF SCIENCES OF UKRAINE



**NAUDI**

National Association of  
Ukrainian Defense Industries

# ENTERPRISES

## A.D R O N E S



A. DRONES LLC

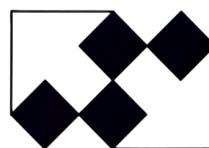
INNOVATION RADAR SYSTEMS LLC



DEFENSE TECHNOLOGIES  
OF UKRAINE LLC



PJSC "KRAMATORSK HEAVY DUTY  
MACHINE TOOL BUILDING PLANT"



AVTOLIVMASH  
MACHINE-BUILDING PLANT LLC

RESEARCH AND PRODUCTION  
ENTERPRISE "SPECIAL SYSTEMS"



SUMY REGENERATIVE PLANT LLC

AIRLOGIX



ALTAIR GROUP



LOGICS 7 UA LLC



SPAITECH SPE LLC



**KVERTUS**

KVERTUS LLC



ENERGY SYSTEMS & EQUIPMENT  
ZAPORIZHZHIA LTD



VARIANT DEFENSE LLC



THERMAL VISION TECHNOLOGIES LLC



FREIGHT TRANSPORT PARTNER LLC



LLC AVIATION OF NEW GENERATION  
PATRIOT-UKRAINE

# ENTERPRISES



RADIONIX LLC

АН Сервис

AN SERVICE LLC



GIROPRAKT LLC



SCIENTIFIC AND PRODUCTION  
ASSOCIATION "SUMY PLANT OF  
RUBBER PRODUCTS" LLC



DEMINING SOLUTIONS LLC

**AVIASERVICE**

We work - You fly

AVIASERVICE-KIEV LLC



SYSTEM ELECTRONIC EXPORT LLC



SPETSTRANSGRUP LLC



SPIVDRUZHNIK AVIA BUD LLC



REFORM LLC

**UKRSPEC  
SYSTEMS** —

UKRSPETSSYSTEMS LLC



AUTOKRAZ PJSC



AVK SKYETON LLC



VIK DEVIRO LLC

**everest**  
innovation integrator

EVEREST LLC



IT LABORATORY LLC



TRITEL LLC

**UKRTAC**

UKRTAC LLC



**NAUDI**  
National Association of  
Ukrainian Defense Industries

**KZTS**



## 155 mm SELF PROPELLED HOWITZER

### TRUCK-MOUNTED HOWITZER 155

Self-propelled 155 mm artillery system.

155 mm/52 caliber self-propelled gun system is long range, fast moving, truck mounted with a firepower and mobility, rapid deployment short response time, operable in all terrain areas. The system is integrated with full computerized system, providing an automatic control accurate navigation and target acquisition.





## EQUIPMENT

- Automatic Line of Sight
- Command and control computer
- Navigation system

## COMMUNICATION

- Digital radio station
- Acceptance and transmission of data
- Phone communication

## TECHNICAL CHARACTERISTICS

- Total weight combat position - Up to 28 ton
- Chassis - KRAZ, TATRA, MAN
- Crew - 5 men

## DIMENSIONS

- Length 10050 mm
- Width 3080 mm
- Height 3800 mm

## AMMUNITION CARRYING

- capacity 20 rounds

## MOBILITY

- Forward slope capability 30°
- Side slope 25°
- Wading crossing 1.2 m
- Vertical obstacle crossing 0.5 m

## TIME

- Deployment 1.5 min
- Redeployment 1.5 min

## MAX SPEED

- On road 80 km/h
- Off road 30 km/h

## OPERATIONAL RANGE

- On road 800 km
- Off road 500 km

## FIRING SYSTEM

- Barrel 155 mm
- Ballistic system 52°
- Powder chamber 23 L
- Rate of Fire 5 shots/min
- Elevation -5 ... +65°
- Traverse -30 ... +40°



**NAUDI**  
National Association of  
Ukrainian Defense Industries

**UKRAINI  
ARMOR**



# KAMRAT-L

## SPECIAL-PURPOSE ARMoured VEHICLE

### PURPOSE

Armored personnel carrier VARTA (export name Kamrat-L) is designed for transportation of military personnel and cargo of the Armed Forces units and other military and security authorities; conducting reconnaissance, patrolling and escorting vehicles during special missions, as well as to protect the crew from small arms fire, mines and shell fragments.

In 2015-2016, VARTA (export name Kamrat-L) special-purpose armoured vehicle successfully passed all official compliance tests according to the program and test methods of the Ministry of Defense of Ukraine, the National Guard of Ukraine and the State Border Guard Service of Ukraine.

Depending on the needs of the customer, the vehicle can be manufactured in the following modifications:

- command and control vehicle;
- vehicle for control and transportation of the UAVs;
- medevac vehicle;
- mobile mortar complex and a vehicle for transporting a mortar complex;
- radiation, chemical and biological protection vehicle.

### TECHNICAL SPECIFICATIONS

	PROTECTION	STANAG 4569 Level 2. Protection against 7.62x39 AP fmj, distance of 30m and protection against mine blast under attack wheel or center up to 6 kg TNT.
WHEEL BASE	4x4 (chassis with increased length)	all-terrain operation capability
LENGTH / WIDTH / HEIGHT	7,190 / 2,250 / 2,850 mm	6-cylinder in-line turbo diesel engine
ENGINE	270 or 380 hp, 1,728 or 1,250 N·m at 1200-1600 rpm.	270 or 380 hp, 1,728 or 1,250 N·m at 1200-1600 rpm.
MAXIMUM SPEED	100 km/h	100 km/h
FUEL TANK CAPACITY	350 liters	350 liters
TIRE SIZE	14.00 R 20 or 16.00 R 20	14.00 R 20 or 16.00 R 20
CREW	2+8	2+8
GVW	17,500 kg	17,500 kg
WHEEL BASE	3,950 mm	3,950 mm
GROUND CLEARANCE	320 mm	320 mm
ELECTRICAL SYSTEM	24V	24V
TRANSMISSION	9 Gear Manual Transmission	9 Gear Manual Transmission
MAXIMUM RANGE	1,000 km on a road	1,000 km on a road
FORDING	1.2 m without preparation	1.2 m without preparation
SIDE SLOPE	20°	20°
GRADIENT	30°	30°
GUN PORTS	10	10



#### ANTI-MINE SEATS

Modern anti-mine seats tested in accordance with STANAG 4599 and are certified according to NATO AFN-55 standard.

#### EQUIPPED WITH:

- energy damper attenuation system
- wall mounting
- 5-point seatbelt
- foldable seats
- waterproof headrests
- waterproof external coating

#### TIRE INFLATION

Automated Centralised Tire Inflation System. For various road surfaces, RunFlat allows the vehicle to continue operation even at a pressure loss on a distance up to 40 km at a speed 20 km/h.

#### WINCH

The vehicle is equipped with a water - proofed electrical winch (tropical type) with towing capacity at least 9 tons, with a synthetic steel cable not less than 25 m.

#### EQUIPMENT

Front and rear view camera, GPS navigation, FIRE-FIGHTING SYSTEM, Automatic fire extinguishing system for the personnel compartment with ultraviolet and infrared sensors.

#### ARMAMENTS

The vehicle is equipped with a gunner station with a gunner protection kit on the roof that can support 7.62mm or 12.7mm machine guns.

#### LIVING FACILITIES

Air conditioning, heating, ventilation, first aid kit, powder gas ventilation system.

#### FILTERING AND VENTILATION UNIT

Protects against natural air pollution, use of weapons of mass destruction (CBRN).

#### SEATS

Military-grade anti-mine seats with five-point seat belts.

#### CHASSIS

APC VARTA (export name Kamrat-1) is built on a specialized 4x4 two-axle "all-terrain" chassis with a centralised tire inflation system and special shock-absorbers of bilateral action ensuring reliable operation even in the most extreme and difficult operating conditions.

#### ENGINE

At the customer's choice, the vehicle is offered in two options with turbocharged diesel 6-cylinder V-type engines of 270 hp or 380 hp. The maximum torque is 1,128 N·m or 1,250 N·m, which ensures terms of fuel quality and is easy to maintain. The maximum speed of the vehicle on the road is 100 km/h.

#### TRANSMISSION

9-speed manual transmission with synchronizers on all forward gears. Specially designed for operation in difficult road conditions. Ensure smooth operation of the suspension at high speeds in off-road conditions.

#### SUSPENSION

V-shaped geometry of the armoured capsule of APC VARTA (export name Kamrat-1) allows withstanding a mine explosion with a capacity of up to 6 kg in TNT equivalent.

The high-quality 508 type Swedish armour steel provides protection against direct impact of small arms API bullets of 7.62mm calibre. The external method of armour glass installation allows fast replacement in case of damage. The vehicle engine is surrounded with additional armour plates and is completely protected from 7.62mm API bullets.

#### WHEELS

To maintain the mobility of the vehicle in extreme conditions, VARTA (export name Kamrat-1) is equipped with off-road tires with protective caps and a centralised tire inflation system.

#### AUTOMATIC CENTRALISED TIRE INFLATION SYSTEM

APC VARTA (export name Kamrat-1) is equipped with a centralised tire inflation system, in case of significant damage when air leakage exceeds the rated compressor performance ensures:  

- required air pressure in the vehicle tires depending on the road surface;
- automatic maintenance of the pressure in tires in case of their damage;
- centralised tire inflation system can be activated while driving or during a stop and does not require exiting the vehicle;
- a wheel will be automatically disconnected from the system in case it is significantly damaged and air losses exceed the rated capacity of the compressor. In the event of critical damage to the wheels, the movement of the vehicle is ensured by rubber Run-Flats, which allow driving in complete absence of tire pressure up to 40 km in off-road conditions. Run-Flats consist of three components, which allow quick installation in the tire without use of any special equipment.

#### CLIMATE CONTROL

The vehicle is equipped with a specially designed autonomous air conditioning and heating system. It ensures a comfortable microclimate within the vehicle at atmospheric temperature range from -40°C to +50°C. The fire-resistant metal dash panel is easily dismantled for access to technical elements of the vehicle. Rear-view mirrors are equipped with electric drive and are heated. The ergonomic dash panel is equipped with waterproof and shock-resistant sensors and switches. A set of load pulley blocks.

#### FIRE-FIGHTING SYSTEM

The vehicle is equipped with a quick-response fire-fighting system designed according to NATO standards, which suppress fires in the personnel and engine compartments.

The system is equipped with ultraviolet and infrared sensors that detect a fire in 3 milliseconds and suppress it in 250 milliseconds. The gas used to extinguish fires is safe for human health.

#### DOORS MECHANISM AND HANDLES

Easy to operate and ensure reliable operation and locking of the armoured doors of weight over 300 kg. Comply with the FMVSS206 quality standard.

The filtering and ventilation unit ensures purification and supply of clean air to the passenger compartment.

#### VEHICLE LIGHTINGS

The vehicle lightings are made of polycarbonate and provide high shock and moisture resistance. In addition to the standard vehicle lighting kit, which includes headlights, brake lights and turn signals, APC VARTA (export name Kamrat-1) is equipped with four spotlights, black-out headlights and convoy lights to drive during the night and dark periods.

#### EXTERIOR VEHICLE LIGHTINGS

The interior lighting of the vehicle has full, partial and night camouflage lighting modes. The entire lighting system ensures safe driving of the vehicle during night and dark periods and complies with NATO standards.



# NAUDI

National Association of  
Ukrainian Defense Industries



## KAMRAT-M

ARMORED PERSONNEL CARRIER  
WITH REMOTELY CONTROLLED WEAPON STATION

### MAIN CHARACTERISTICS AND FUNCTIONALITY:

KAMRAT-M armored personnel carrier is an advanced military vehicle, which is produced in two configurations for different tasks. The convenient 10-seater version is designed to transport personnel, providing comfort and protection. The pickup version is used for combat operations, where it can not only transport cargo and ammunition, but also take an active part in combat operations due to the possibility of installing various armament and weapon stations.

**WEAPON STATIONS AND ARMAMENT:** Can be equipped with various weapon stations and armament, such as RCVS, machine guns, grenade launchers, anti-tank missile systems, etc., which provide the ability to fire effectively in various combat situations.

**PROTECTION:** The armored body provides a high level of protection for the crew and infantry against bullets, shrapnel and light explosions.

**Mobility:** High maneuverability due to improved suspension and control system.

**INCREASED CROSS-COUNTRY ABILITY:** Special suspension and four-wheel drive allow the vehicle to overcome obstacles and conquer hard-to-reach terrain.

#### 10-SEATER VERSION:

**PERSONNEL TRANSPORTATION:** Ability to transport up to 10 passengers in comfort and safety.

**INCREASED CROSS-COUNTRY ABILITY:** Special suspension and four-wheel drive allow the vehicle to overcome obstacles and conquer hard-to-reach terrain.

#### 10-SEATER VERSION:

**POWER RESERVE:** KAMRAT-M was designed for the use in long-term operations and does not require frequent refueling.

**TACTICAL CAPABILITIES:** The combat version of the machine is equipped with various types of weapon stations and technologies. KAMRAT-M provides a comfortable and stable ride even on rough roads.

**ADAPTABILITY TO CONDITIONS:** KAMRAT-M works in different types of weather conditions, regardless of the season, and on different types of roads, including off-road.

KAMRAT-M is not just a combat armored vehicle; it is a universal platform, which through a high degree of adaptation, can be your reliable partner in various combat tasks performances.



# NAUDI

National Association of  
Ukrainian Defense Industries

UKRAINE  
ARMED



## RAM II LOITERING MUNITION

RAM II UAS is a high-precision combat loitering un-manned aerial system. It is designed to execute un-effective strikes on enemy forces and to minimize un-lateral damage when used in the urban area.

### Object recognition and tracking

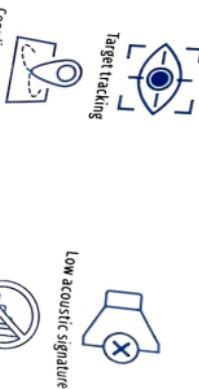
The aim of object recognition is to bring the visual perception capabilities of the human being into ma-

chines and computers. Our tracking system allows the operator to use a gim-bal with a camera to select static and dynamic objects in the field of view of the camera using a computer mouse and tracking them.

For post-processing, there is a function to save a screenshot or video fragment. We developed an onboard mini-computer to implement computer vision algorithms in real-time.

### Quiet and inconspicuous

Due to the electric motor in the propulsion system, the RAM II UAS has a low acoustic signature.



Swarm technology



Low radar visibility



Anti-jamming features



Signal detection



## Communications

Channels, frequencies, and encryption:

- C2 & telemetry channel - 902-928 MHz (AES-128 encryption);
- RC-channel 2400 MHz;
- video channel - 5470-5850 MHz (AES-128 encryption);
- C2 signal to drone uses FHSS 902-928 MHz channel with AES-128 encryption.

Easily swap frequencies if the operational environment changes.

Ground control station power requirements: 24V/3A DC.

## Navigation



GPS



Beidou



Galileo GNSS



Compass



GLONASS



Gyrosopes



3-axis  
accelerometers



Barometric  
pressure sensors

## Technical specifications

### Transportation, maintenance and storage

Using a UAV launching system the RAM II can takeoff from anywhere.

- Catapult type: bungee;
- Catapult dimensions: 5790x2050x1270 mm;
- Launch speed: 17 m/s;
- Power source: 12 V battery;
- Parachute landing method for recovery.

### Takeoff & landing

Dimensions and weight of the ground control station:

- \* Spread out telescopic mast with assembled antenna tracker: er: 3800x3800x5800 mm;
- \* Spread out quadropod with assembled antenna tracker: er: 178.2 kg;
- \* Weight of the quadropod with installed antenna tracker: 314 kg;
- \* Weight with transport cases: 318 kg.

All components of the RAM II UAS come in rugged cases for safe and secure transportation.

## Environmental resistance

### READY FOR ANY MISSION, ANYWHERE.

Temperature range ..... -20°C +45°C

Humidity ..... 5-75%

Protection ..... IP65

## Warhead

We offer a list of different and interchangeable warheads. Quickly and easily change warheads depending on what a mission requires, just simply remove one type and install the other one.

### Crew

Minimum quantity of crew members: 2

UV operator/warhead operator;

UV launching system operator/mechanical technician..

Recommended quantity of crew members: 4

- pilot;
- UV operator/warhead operator;

In case of an emergency like loss of communications in all stages, loss of navigation, visibility, or airworthiness, the mission operator can choose one of the following options:

- failsafe return to home;
- continue the mission and return to home;
- landing in a safe place;
- loiter and wait for a command.



**NAUDI**  
National Association of  
Ukrainian Defense Industries

UKRSPS  
SYSTEMS



# SHARK

UNMANNED AERIAL SYSTEM

SHARK UAS - is a perfect multifunctional unmanned aerial system, that combines advanced technologies and the world's richest experience of UAV application.

## KEY FEATURES

- Determination of target coordinates
- Encrypted datalink
- Real time reconnaissance
- Low noise visibility



# UKRSPEC SYSTEMS —



## TECHNICAL CHARACTERISTICS:

Communication range ..... 50 km

Max. ceiling ..... 2000 m

Operational altitude ..... 1000 m

Flight time ..... 240 min

Cruising speed ..... 80 km/h

Max. speed ..... 150 km/h

Wingspan ..... 3.4 m

Catapult launch ..... yes

## CAMERA:

Optical zoom ..... 30x

Total zoom ..... 90x

Max. tracking distance ..... up to 5000m

Digital stabilization ..... yes

Anti-fog feature ..... yes

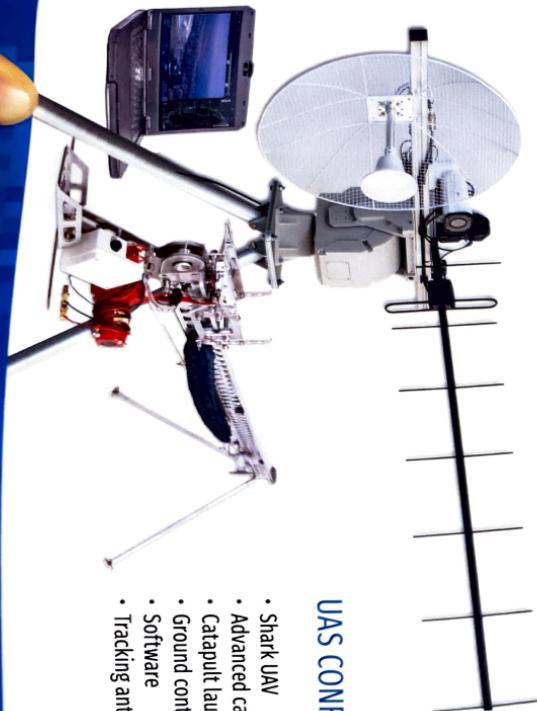


SHARK UAS provides wide range of autonomous intelligence, surveillance and reconnaissance operations in all-environment conditions, such as:

- Aerial reconnaissance
- Border security
- Police operations
- Aerial mapping

## UAS CONFIGURATION:

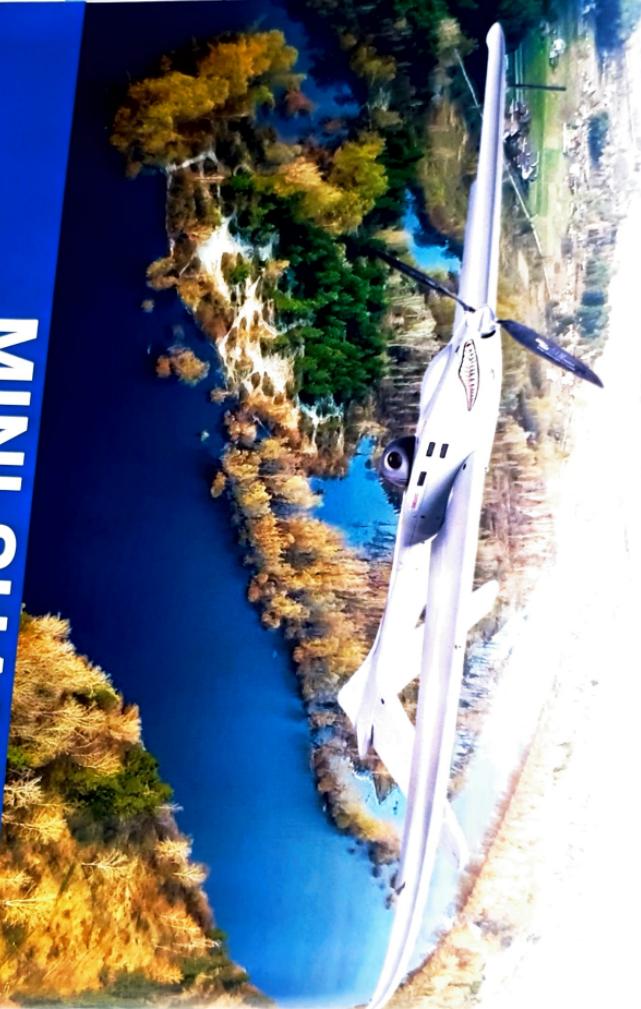
- Shark UAV
- Advanced camera system
- Catapult launcher
- Ground control station
- Software
- Tracking antenna





**NAUDI**  
National Association of  
Ukrainian Defense Industries

**UKRSPECSYSTEMS**



# MINI SHARK

UNMANNED AERIAL SYSTEM

## TECHNICAL CHARACTERISTICS:

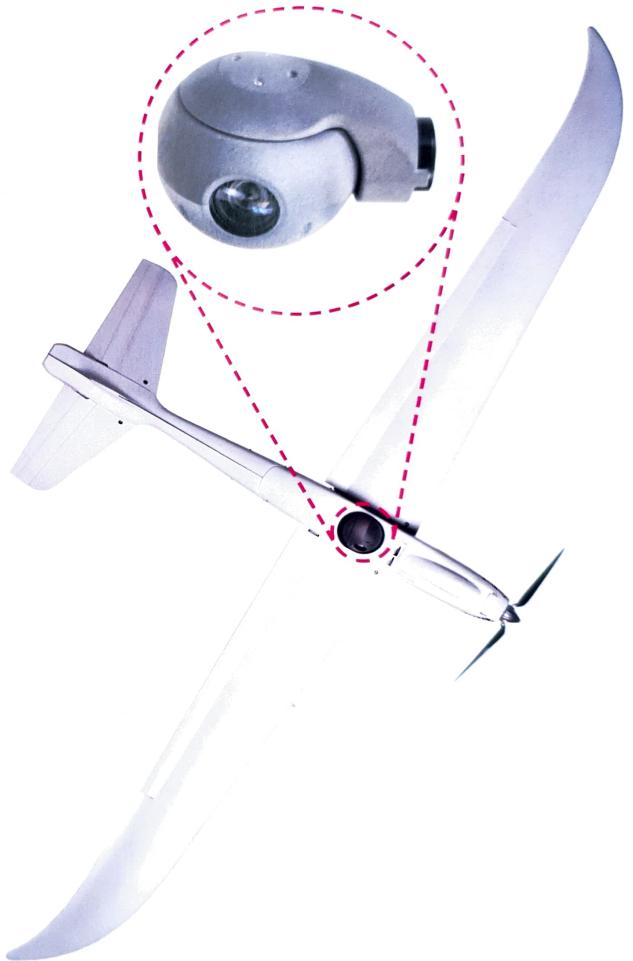
Take-off weight .....	5 kg
Wing span .....	260 mm
Length .....	1250 mm
Height .....	1250 mm
Flight duration .....	260 mm
Communication range .....	2 h
Operational altitude .....	up to 35 km
Stall speed .....	1000 m
Cruising speed .....	42 km/h
Maximum flight speed .....	55 km/h
Sensor type .....	120 km/h
Zoom .....	EO camera
	10x (optical)

The operational temperature range of the UAS is from -5 °C to +45 °C.  
The maximum wind speed near the earth's surface during the operation of UAS is no more than 10 m/s.

**UKRSPEC  
SYSTEMS —**



**NAUDI**  
National Association of  
Ukrainian Defense Industries



# **USG-261**

USG-CAMERA SYSTEM

The USG-261 Gimbal is our smallest and lightest solution, specifically for small UAVs of any configurations. It is equipped with a lightweight FullHD high-quality camera.

- Day-view camera Full HD
- 10x optical zoom
- Anti-fog
- Target tracking



**USG-261 weighs only 400 grams but has all the advantages of a full-size gimbal.**



UAV has the special anti-electronic warfare system which recognizes international interference environments (GPS blocking/spoofering) and automatically switches to SINS/AHRS inertial mode.

GPS blocking/spoofering) and silence mode in order to make it impossible to determine the place of takeoff. The UAV can take-off in radio silence mode in order to inform about the UAV and about the environment.

Day-night use • Border security

- Day-night use
- Border security
- Aerial mapping
- Aerial reconnaissance
- Artillery fire adjustment
- Artillery and control
- Of troops
- Police operations
- Agitation

«DEVIRO flight control center software» makes it easy to plan and simulate mapping mission. Mission planning takes place in a visual mode, the software will automatically calculate the maximum length of the route, flight control provides the tools for quick access to the payload center. During the flight, the operator receives information about the UAV and the environment.

«DEVIRO flight control center software» makes it easy to plan and simulate mapping mission. Mission planning takes place in a visual mode, the software will automatically calculate the maximum length of the route, flight control provides the tools for quick access to the payload center. During the flight, the operator receives information about the UAV and the environment.

operator can switch on and off video transmission at any time.

UAV has good wind resistance parameters and can be used at 20 m/s wind speed. Flight radius is 50 km (depending on route distance 100km), endurance time is 2.5 hours and condition of air temperature from +50C to +350C, with speed 10 m/s.

UAV has good wind resistance parameters and can be used at 20 m/s wind speed. Flight radius is 50 km (depending on route distance 100km), endurance time is 2.5 hours and condition of air temperature from +50C to +350C, with speed 10 m/s.

## CICONIA



TECHNICAL FEATURES	
Length / Wingspan / Take-off weight: basic/EFT	1,135 m / 1,98 m / 2,46 m Wingspan VTOl (EFT kit) T.O.L
VTOl	6 kg / 7,22 kg / 8,70 kg Anti-electronic warfare system
Material	carbon fiber composite: kevlar, glass
Maximum flight altitude	1500 m (limited by software) Operating temperature
Cruise speed	60 - 70 km/h Wind resistance
Power	electric Flight planning/programming
Endurance:	2 - 2,5 hours PLCI Z30 daylight module
Route length:	in a visual mode with online/offline satellite maps PLCI Z30 daylight module
Basic modification	two axes with changeable 20x optical zoom gyroscopically stabilized in thermal vision module, optical zoom)
With EFT kit	-PLCI IR night vision module gyroscopically stabilized in thermal vision module, optical zoom (
With T.O.L module	100 km gyroscopically stabilized in thermal vision module optical zoom)
Flight control system	45 km two-way digital encryption 5 km two-way digital encryption autopilot with the full auto and navigation mode
Video link	Video link Payload: modular variable
Route length:	1 - 1,5 hours PLCI Z30 daylight module
Basic modification	two axes with changeable 20x optical zoom gyroscopically stabilized in thermal vision module, optical zoom (
With EFT kit	-PLCI IR night vision module gyroscopically stabilized in thermal vision module, optical zoom)
With T.O.L module	100 km gyroscopically stabilized in thermal vision module optical zoom)
Flight control system	45 km two-way digital encryption 5 km two-way digital encryption autopilot with the full auto and navigation mode
Video link	Take off method Landing method
Route length:	100 km gyroscopically stabilized in thermal vision module optical zoom)
Basic modification	two axes with changeable 20x optical zoom gyroscopically stabilized in thermal vision module, optical zoom (
With EFT kit	-PLCI IR night vision module gyroscopically stabilized in thermal vision module, optical zoom)
With T.O.L module	100 km gyroscopically stabilized in thermal vision module optical zoom)
Flight control system	45 km two-way digital encryption 5 km two-way digital encryption autopilot with the full auto and navigation mode
Video link	Take off method Landing method



# GOR

UNMANNED AERIAL SYSTEM

## TECHNICAL CHARACTERISTICS:

MTO	10,5 kg
Cruise speed	18 m/s
Minimum speed	14 m/s
Operational altitude	1400 m
Fast & easy deployment - Catapult launch.	

## EFFECTIVE RANGE AND SIGNAL QUALITY

EO-WR with 80x zoom with digital stabilization  
C2 and Video stream - over 40 km  
EW protected digital communication system

Less vulnerability - up to 2.5 h of flight time.  
Low noise - electric motor.  
Less vulnerability - up to 3500 m service ceiling

## FIRE ADJUSTMENT ENEMY LINES & ARTILLERY

UAS "GOR" FOR DEEP SURVEILLANCE BEHIND ENEMY LINES & ARTILLERY

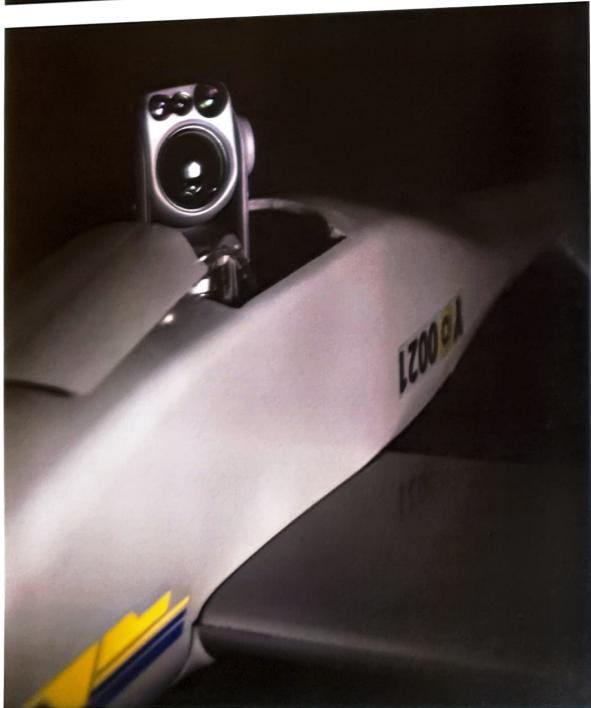
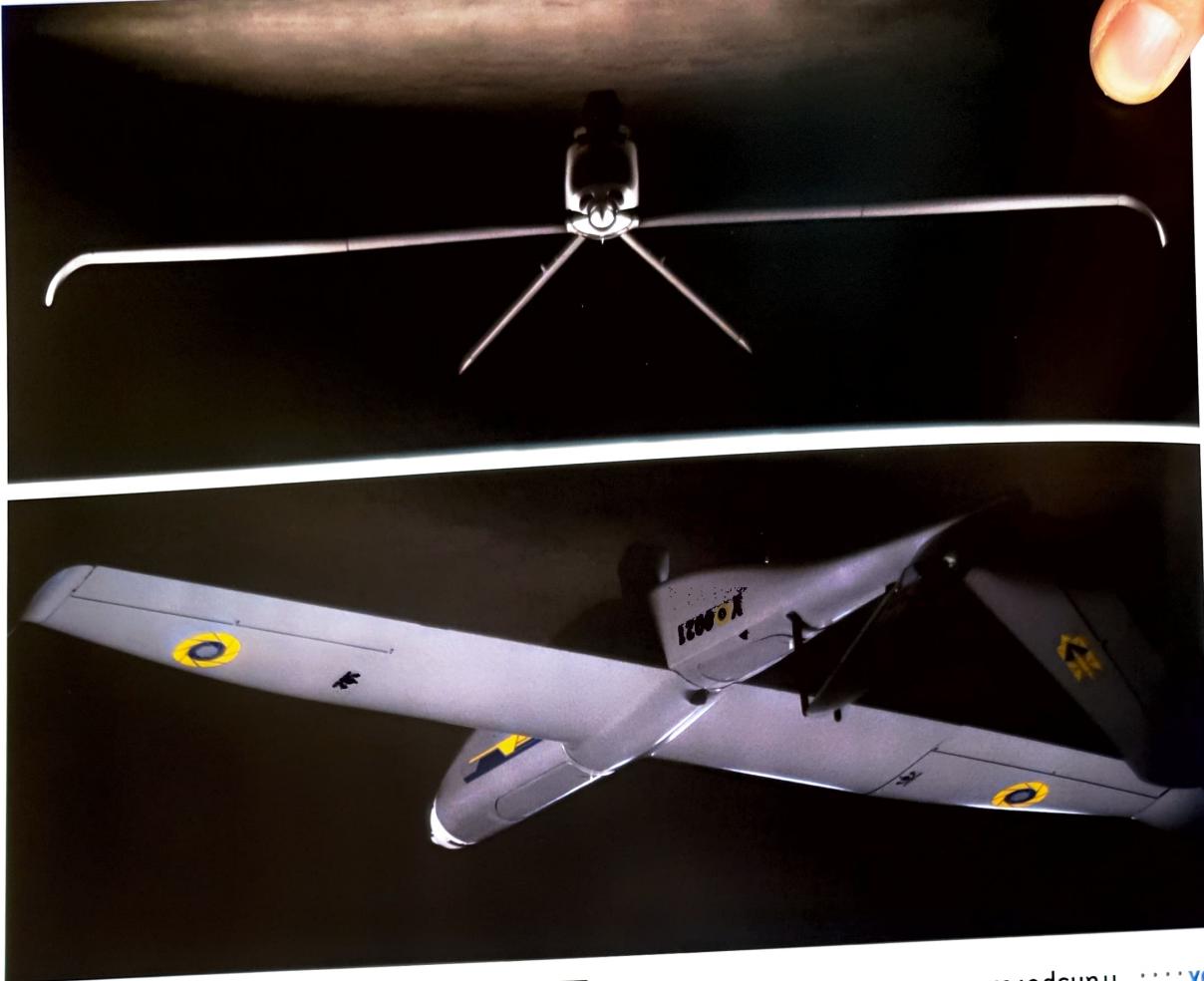


Aihogix

National Association of Ukrainian Defense Industries

**NAUDI**





COMPLETE SET OF UAS "GOR"

UAV with EO-IR Camera NextVision RaptoR

Ground Communication Unit

Workstation for UAV control

Workstation for camera control

RC for UAV control

Joystick for camera control

Network equipment, cables

Battery set for UAV

Battery set for GCS

Repair kit

Transportation case

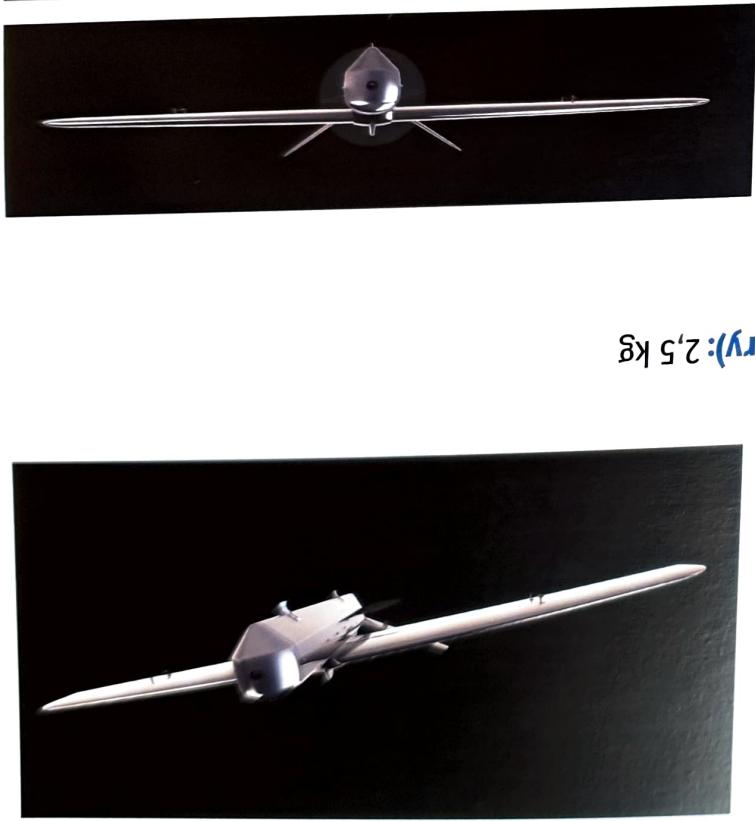


**PURPOSE:**

the use of UAVs as a means of loitering munition, aerial reconnaissance, surveillance using various types of telescopy. Performing reconnaissance, strike missions, testing air defense systems.

## LOKI UNMANNED AERIAL SYSTEM





	Battery type: Lithium polymer or lithium ion 16,8 V
	Communication channel: 900, 433 MHz
	Control channel: 900 MHz
	Video channel: 1200 MHz, 5,8 MHz
	Maximum takeoff weight: 4 - 4,5 kg Weight of empty aircraft (without battery): 2,5 kg Payload weight: 0,6 - 1,7 kg
	Maximum flight duration: 45 min
	Maximum range: 45 km ± 2 km
	Type of takeoff: Using pneumatic launchers
	Type of landing: Horizontal with short run
	The range of the telemetry signal transmission channel and the video transmission channel: 10-25 km
	Maximum flight altitude: 1500 (±100) m
	Flight speed range: 60-150 km/h Cruising speed relative to air: 72 km/h
	Deployment time from transport: 15-20 min
	Preparation time for restart: 15-20 min



the use of an UAV as a means of aerial reconnaissance, adjusting artillery, dropping ammunition, observing with the help of various types of equipment. Performing reconnaissance, striking tasks, testing of air defense systems.

### PURPOSE:

## THOR UNMANNED AERIAL SYSTEM



ALTAI  
TECHNOLOGY

National Association of  
Ukrainian Defense Industries

**NAUDI**



Preparation time for restart: 15-20 min



Deployment time from transport position: 15-20 min



Flying speed range: 70-120 km/h  
Cruising speed relative to air: 72 km/h



Maximum flight altitude: 1500 (±100) m



The range of the telemetry signal transmission channel: 15 km  
Signal transmission channel and video transmission channel



Type of landing: horizontal with short run



Type of takeoff: using launchers



Maximum range: 75 km ± 2 km



Maximum flight duration: 240 min



Weight of empty aircraft (without battery): min 7 kg  
Maximum takeoff weight: 25 kg  
Payload weight: 1 - 7 kg



Battery type: Lithium polymer or lithium ion 25,2 V  
Composite, matrix production  
Corps: ALTAIR TECHNOLOGIES



Communication channel: 900, 433 MHz  
Control channel: 900 MHz  
Video channel: 1200 MHz, 5,8 MHz



- Engine: Internal combustion engine, 100 hp
- Fuel type: Automobile A-92, A-95, A-98, 100LL
- Propeller: 3-blade, variable pitch propeller
- Manufacturer: ANG
- Takeoff system: Three-legged landing gear or launch carriage
- Fuselage length: 3.3 m
- Maximum speed: 360 km/h
- Maximum range: 3,000 km
- Flight altitude: 40 - 4,500 m
- Maximum takeoff weight: 500 kg
- Empty weight: 130 kg
- Fuel tank capacity: 160 liters

## UAV SPECIFICATIONS:

# SKAT-FORTWO

STRATEGIC KAMIKAZE UAV

