RECONNAISSANCE SYSTEMS

ACT IN ADVANCE

UKRSPEC SYSTEMS
in advance

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SYSTEMS
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WHAT LIFTS US?

The products presented in this brochure have become leading unmanned aerial systems in the fight against the Russian occupation. Rigorously tested and continually updated, they have accumulated over 10,000 real warfare flight hours in the past year, inflicting hundreds of millions of dollars in damage to the enemy. UKRSPECSYSTEMS today:

1 We are a developer and supplier of unmanned systems, software, and services.

2 Combining portability with high-end functionality, our products are trusted by military personnel, including frontline units and special operations forces, as well as by civilians.

3 We provide technologies that make you feel more confident in the future, no matter what it holds.

At UKRSPECSYSTEMS, we don't leave victory to chance. Our approach is forged from unique experience and an unwavering commitment to military-technical excellence. By acting proactively, we ensure readiness and resilience, ultimately prevailing.

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PD-2E UAS

Our flagship model, the PD-2E UAS, is a ready-to-use system designed for a wide range of missions, from military operations to civilian applications. Equipped with advanced features such as powerful encryption, versatile payloads, and intelligent software, it's built to act in advance.

VERSATILE, LONG-RANGE RECONNAISSANCE SYSTEM

KEY FEATURES

→ Target Coordinate Determination

→ Anti-Jamming

→ Low Acoustic Footprint

→ Secure Communication

WHAT'S INCLUDED?

- Network hub with backup battery
- Remote operator control station
- Payload operator portable control station
- Tracking antenna unit
- Automatic mast
- Power generator

USG-405 EO/IR/LRF

- Full HD
- 30x optical zoom
- 4x digital zoom
- LWIR-motorized focus
- Laser rangefinder

EO SENSOR — 1920x1080, 60 fps

35,5 km Detection	**15 km** Observation
12 km Recognition	**4 km** Identification

IR SENSOR — 640x512, 30 fps

14 km Detection	
4,5 km Recognition	**1,5 km** Identification

Technical details:

	VTOL	Fixed-wing
Endurance	8 h	10 h
Communication range	Up to 180 km	Up to 180 km
MTOW	55 kg	45 kg
Maximum payload weight	11 kg	11 kg
Wingspan	5 m	4 m
Ceiling	4500 m	5000 m
Takeoff and landing	From any location	Using a runway

*The maximum actual range of vehicle detection, recognition and identification. Practical range is limited by atmospheric conditions.

SHARK UAS

SOFTWARE-CENTRIC COST-EFFECTIVE SYSTEM

Enhanced sensors, sharpened instincts. SHARK UAS is your all-in-one solution for operational surveillance and reconnaissance. This advanced system enables you to detect threats earlier, see farther, and act quicker.

KEY FEATURES

→ Target Coordinate Determination

→ EW Resistance

→ UAV Pairing

→ Low Acoustic Visibility

EO/IR GIMBALS

- Digital video stabilization
- Object tracking
- Onboard recording

USG-231 EO

- Full HD, 1920x1080, 30 fps
- 30x optical zoom
- 3x digital zoom
- Anti-fog

35,5 km Detection
15 km Observation
12 km Recognition
4 km Identification

USG-231T IR

- 640x512, 30 fps
- Thermal imaging module
- 4x digital zoom
- 360° rotation

14 km Detection
4,5 km Recognition
1,5 km Identification

WHAT'S INCLUDED?

- 3 SHARK UAVs
- Advanced camera system
- Catapult launcher
- UAV operator control station
- Antenna tracker
- 5 m mast
- Batteries
- Power generator
- Spare parts and equipment
- Shipping cases

Technical details:	
Endurance	4 h
Communication range	Up to 80 km
MTOW	12,5 kg
Wingspan	3,4 m
Ceiling	3000 m
Flight route	250 km
Takeoff and landing	Catapult takeoff and parachute landing

*The maximum actual range of vehicle detection, recognition and identification. Practical range is limited by atmospheric conditions.

MINI SHARK UAS

YOUR COMPACT EVERYDAY CARRY UAS

Designed for portability and performance, this system is equipped with the same advanced technology as our larger models. With its compact form, the MINI SHARK is the perfect companion for those who demand a powerful recon tool in their backpack, no matter where luck takes them.

KEY FEATURES

→ Fits in two backpacks

→ Easy hand launch

→ Autonomous surveillance

→ Automatic belly landing

EO/IR GIMBALS

- Digital video stabilization
- Object tracking
- Onboard recording

WHAT'S INCLUDED?

BACKPACK 1:
- MINI SHARK UAVs

BACKPACK 2:
- Mobile control station
- Spare parts, tools, and accessories

USG-261 EO

- Full HD, 1920x1080, 30 fps
- 10x optical zoom
- 3x digital zoom
- Anti-fog

5 km Detection	**3 km** Observation
2 km Recognition	**1 km** Identification

USG-261T IR

- 640x512, 30 fps
- Thermal imaging module
- 4x digital zoom
- 360° rotation

4 km Detection	
3 km Recognition	**1 km** Identification

Technical details:

Endurance	2 h
Communication range	Up to 35 km
MTOW	5 kg
Wingspan	2,6 m
Ceiling	3000 m
Flight route	110 km
Takeoff and landing	Hand launch and automatic belly landing

*The maximum actual range of vehicle detection, recognition and identification. Practical range is limited by atmospheric conditions.

UNIFIED GROUND CONTROL STATION

Our Ground Control Station (GCS) is a versatile command center designed to work seamlessly with all types of UAVs. By centralizing control in one place, you can easily manage and plan your operations, giving you a strategic edge in advance.

GCS is built tough and can be used in various settings. It's compact enough to carry with your team or can be integrated into a vehicle.

CONTROL. COORDINATE. SEIZE THE INITIATIVE

→ All-Compatible

GCCs are mutually compatible with all our UAVs, allowing you to choose what to use according to your mission and goals

→ Anti-Jamming

Anti-jam capabilities ensure smooth operation in environments without GNSS signals, GPS spoofing, or control signal interception attempts

→ Encryption

Encrypted main and backup communication channels for redundancy

→ Flexible Mobility

The GCS and equipment can be easily transported as is or integrated into a vehicle

→ Mesh

- UAV-to-UAV signal relay
- One GCS to operate several UAVs
- Create tandems using reconnaissance and strike UAVs

SOFTWARE CAPABILITIES:

1 Multiple GCS Control

Manage one UAV using multiple GCS units.

2 Extended Mission Range

Facilitates control hopping from one GCS to another during flight to extend operational range.

3 Live-Streaming Capability

Simultaneously broadcast critical information to multiple GCS units, RVTs, operators, HQ, and field troops.

WHAT'S INCLUDED?

- Network hub with backup battery
- UAV operator control station (software + protected laptop)
- Tracking antenna
- Automatic 5 m mast
- Power generator
- Shipping cases

TECHNOLOGY ADVANCEMENTS

At UKRSPECSYSTEMS, our technology suite is engineered to enhance operational capabilities with high-tech solutions. We provide complete control, efficient management, and a competitive edge to help you stay ahead of rivals, threats, and unpredictable situations.

CONTROL

→ **Software-Centric Approach**

All our systems feature a flawless and intuitive control interface focused on process automation, which reduces errors and enhances overall efficiency.

→ **Smart Pre-Flight Checking**

A built-in feature ensures all systems are ready before takeoff, enhancing both safety and reliability.

→ **Auto Mission Planning**

Each UAV includes fail-safe measures such as automatic return home and emergency landing capabilities.

→ **Customizable Waypoint Navigation**

Control software supports in-flight adjustments and features a moving live map for dynamic mission management.

ANALYZE

→ **Target Identification and Analysis**

With any of our UAS, you can achieve exceptional situational awareness and decision-making accuracy.

→ **Comprehensive Reporting**

Allows you to create detailed after-flight reports including route data, preselected map objects, and quick information sharing through API.

→ **Enhanced Live Map**

Enables you to plan steps, track your aerial vehicle, and interact directly with the map to focus on specific areas or objects, all from our Control Station.

→ **Real-Time Data Streaming**

Gain instant, uninterrupted access to mission-critical information for enhanced operational clarity.

COMMUNICATE

→ **Versatile Connectivity**

Choose from LoS communication with a 180 km range, 3G/LTE for wide-area coverage, or SATCOM for unlimited range, all secured with AES-256 encryption.

→ **Onboard Video Processing**

Our gimbals utilize a powerful processing unit for digital video stabilization, moving target tracking, and video enhancement.

→ **High-Quality Sensors**

Our gimbals feature various cameras, including Sony Full-HD EO with 90x zoom and uncooled thermal models for precise coordinate detection.

→ **Intuitive Controls**

The payloads architecture provides easy and customizable camera controls, multiple input sources, and a wide selection of screen layouts.

TERMINAL

You can use any of our UAS separately or combine them into a system of systems with Terminal. This off-the-shelf software is designed to facilitate the collection, analysis, processing, and exchange of intelligence information. A flexible client-server architecture allows you to build an omnipresence environment tailored to your arms, equipment, missions, strategy, and military structure.

Situational Awareness at Your Scale

Exchange data with allied Terminal servers, creating a global situational awareness system.

API Integration

Supports information exchange with other systems and software products through an application programming interface.

→ **Real-Time Monitoring**

Synchronize information from UAVs, satellites, stationary and mobile cameras, or other sensors in a single environment on your server. Get a complete real-time picture of the operational zone.

→ **Universal Access**

All information is stored on your server, and a regular laptop or tablet can be used as an access point.

→ **Role-Based Approach**

Gain insights and understand the situation at different levels — from a soldier's perspective to a general's view.

→ **On-Premise and Cloud-Ready**

The terminal is built for versatility, delivering seamless performance on-premise or in the cloud. It adapts to any IT infrastructure, ensuring reliable operation without relying on specific devices for data processing.
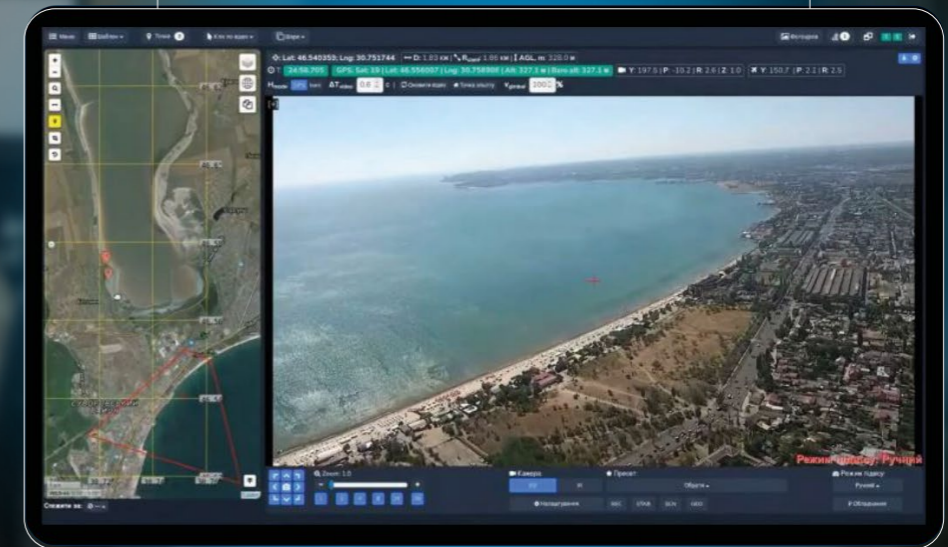
Multi-Brand Sensor Support

Compatible with sensors from well-known brands such as Hikvision, Dahua, and various IP cameras.

Equipment Compatibility

Works with a wide range of platforms, including both combat and surveillance systems from various manufacturers.