



# REACTIVE DRONE



**POWERFULL WEAPON**  
FOR SPECIAL COMBAT  
CONDITIONS



## ABOUT US

### The LLC "Reactive drone"

Is lead Ukrainian producer of multirotor strike, cargo, firefight, evacuation unmanned aerial vehicles.

- Strike
- Cargo
- Evacuation
- Firefighters



The history of the company began 6 years ago from producing agricultural UAVs and drone using services.

Drone-sprayers were supplied as to domestic market as to foreign market such as: Azerbaijan, Kazakhstan, Uzbekistan. From the beginning of all-out war against russia the company has changed its qualification and began development and production military products.

So far, the company has more than 60 workers and on the way of progressive increase of production. The team of professional engineers and developers from own R&D department is constantly working on improvement models that are already exist and on creation of new products and solutions.

Besides Ukrainian production, the company is working on opening production facility in Poland and Czech Republic, where subsidiaries are already existed.

The main product of our company is strike bomber “Kazhan” (Bat in English). The UAV, which was developed for hitting engineering facilities, support punches, vehicles, living force, tanks, and other targets. Strike drone “Kazhan” is widely used by Ukrainian Armed Forces and is approved to use by Ministry of defence of Ukraine.

As well as the LLC “Reactive drone” develops and produces jamming and spoofing systems, ground robotic systems, mini drones for reconnaissance, ground powered UAVs, RC systems, noise-resistant GPS and GNSS systems, aircraft type UAVs and many other products.

#### **The main products of the company:**

- Combat and strike multirotor type and plane type drones;
- Multirotor “mini” drone for operational-tactical tasks;
- UAVs and VTOLs;
- Ground robotic systems for combat and evacuation;
- Radio control and link system and devices;
- Navigation systems and GNSS modules devices and antennas.
- Electronic warfare systems and anti drone systems.



## KAZHAN E620 (BAT)



### STRIKE UAS REACTIVE DRONE KAZHAN E620 (BAT)

Electric drone equipped with dropping system for all type ammunition for destruction enemy's manpower and equipment.

#### TACTICAL AND TECHNICAL CHARACTERISTIC:

<b>FRAME:</b>	4 motors
<b>LOAD CAPACITY:</b>	Up to 12 kg (up to 20 kg ) for short range
<b>ALTITUDE:</b>	Up to 400 m (blocked by producer), maximum up to 1500 m
<b>GROUND SPEED:</b>	Up to 20 m/s or 72km/h
<b>MAXIMUM PATH:</b>	Using one set of batteries up to 25 kg without payload and up to 20 km performing combat task (50% of the way with payload and 50% without)
<b>COMBAT RADIUS:</b>	Up to 10 km (depends on weather conditions, operator experience, altitude and anti-drone systems)
<b>STRIKE RADIUS / RADIO CHANNEL:</b>	Up to 6-10 km (depends on weather conditions, operator experience, altitude and anti-drone systems)
<b>CONTROL SYSTEMS:</b>	Resistant FHSS system, manual mode, point to point mode, coordinate fly, auto pilot fly
<b>NAVIGATION:</b>	GNSS module with remote antenna, no satellite mode, fly with jamming, no satellite takeoff
<b>CAMERA:</b>	Double camera with 3 axis gimbal, 10 times optical zoom day module + infrared module 640*480 with 9 time zoom
<b>POWER SYSTEM:</b>	2 semi-solid LiPo accumulator batteries 72000 mA/h or 100000 mA/h 6S 25C with auto heating
<b>COMMON AMMUNITION:</b>	Anti tanks mines TM-62 and PTM, Anti-personnel mines OZM-72, Heavy cumulative ammunition KZ-6 and KZ-7, other types of ammunition

## KAZHAN E620 (BAT)



The KAZHAN Unmanned Aerial System (UAS) is actively utilized by Ukraine's defense forces, demonstrating its reliability and high effectiveness during the Kharkiv operation, the liberation of Kherson, operations in the Kursk region, and across all other frontline sectors.



In addition to tasks involving the neutralization of enemy personnel and equipment, KAZHAN is used for mine-laying, as a universal platform for additional payloads, and as a logistical carrier, delivering supplies such as food and essentials to troops under extremely challenging conditions.



## KAZHAN E630 (BAT)



### STRIKE UAS REACTIVE DRONE KAZHAN E630 (BAT)

Electric drone equipped with dropping system for all type ammunition for destruction enemy's manpower and equipment.

#### TACTICAL AND TECHNICAL CHARACTERISTIC:

<b>FRAME:</b>	6 motors
<b>LOAD CAPACITY:</b>	Up to 18 kg (up to 30 kg ) for short range
<b>ALTITUDE:</b>	Up to 400 m (blocked by producer), maximum up to 1500 m
<b>GROUND SPEED:</b>	Up to 20 m/s or 72km/h
<b>MAXIMUM PATH:</b>	Using one set of batteries up to 25 kg without payload and up to 20 km performing combat task (50% of the way with payload and 50% without)
<b>COMBAT RADIUS:</b>	Up to 10 km (depends on weather conditions, operator experience, altitude and anti-drone systems)
<b>STRIKE RADIUS / RADIO CHANNEL:</b>	Up to 6-10 km (depends on weather conditions, operator experience, altitude and anti-drone systems)
<b>CONTROL SYSTEMS:</b>	Resistant FHSS system, manual mode, point to point mode, coordinate fly, auto pilot fly
<b>NAVIGATION:</b>	GNSS module with remote antenna, no satellite mode, fly with jamming, no satellite takeoff
<b>CAMERA:</b>	Double camera with 3 axis gimbal, 10 times optical zoom day module + infrared module 640*480 with 9 time zoom
<b>POWER SYSTEM:</b>	2 semi-solid LiPo accumulator batteries 72000 mA/h or 100000 mA/h 6S 25C with auto heating
<b>COMMON AMMUNITION:</b>	Anti tanks mines TM-62 and PTM, Anti-personnel mines OZM-72, Heavy cumulative ammunition KZ-6 and KZ-7, other types of ammunition

## KAZHAN E630 CARGO (BAT)



### SPECIAL UAS REACTIVE DRONE KAZHAN E630 CARGO (BAT)

Electric cargo drone developed for delivering any type of payload up to 30kg.

#### TACTICAL AND TECHNICAL CHARACTERISTIC:

<b>FRAME:</b>	6 motors
<b>LOAD CAPACITY:</b>	Up to 30
<b>ALTITUDE:</b>	Up to 400 m (blocked by producer), maximum up to 1500 m
<b>GROUND SPEED:</b>	Up to 25 m/s or 90km/h
<b>MAXIMUM PATH:</b>	Using one set of batteries up to 25 kg without payload and up to 20 km performing combat task (50% of the way with payload and 50% without)
<b>RADIO CHANNEL:</b>	Up to 15 km (depends on weather conditions, operator experience, altitude and anti-drone systems)
<b>CONTROL SYSTEMS:</b>	Resistant FHSS system, manual mode, point to point mode, coordinate fly, auto pilot fly
<b>NAVIGATION:</b>	GNSS module with remote antenna, no satellite mode, fly with jamming, no satellite takeoff
<b>CAMERA:</b>	Double camera with 3 axis gimbal, 10 times optical zoom day module + infrared module 640*480 with 9 time zoom
<b>POWER SYSTEM:</b>	2 semi-solid LiPo accumulator batteries 72000 mA/h or 100000 mA/h 6S 25C with auto heating

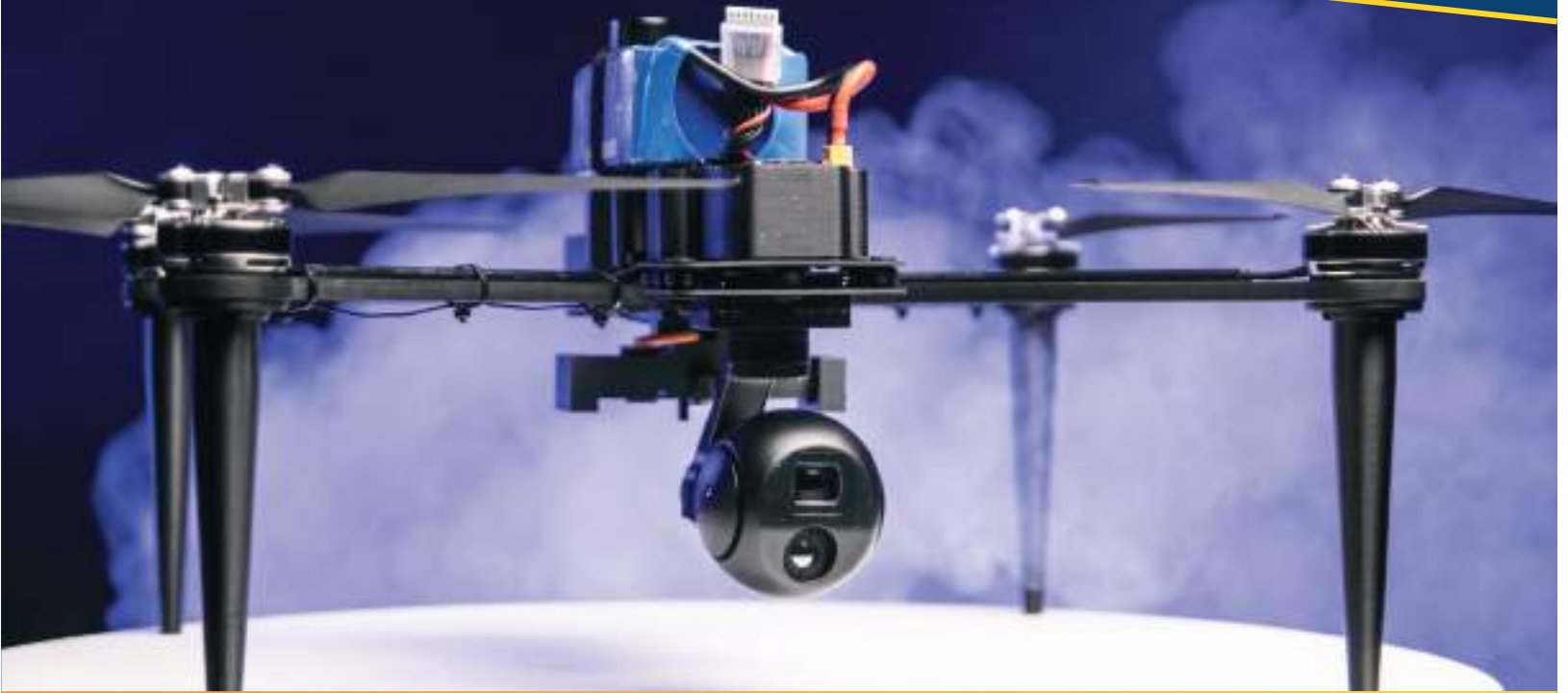


**SCOUT UAS REACTIVE DRONE**  
**SHMAVIC**

Quadcopter scout operational-tactical level of use.

**TACTICAL AND TECHNICAL CHARACTERISTIC:**

<b>OPERATION RADIUS:</b>	15 km;
<b>FLIGHT TIME:</b>	Up to 60 minutes;
<b>WORKING ALTITUDE:</b>	150-250 m;
<b>MAXIMUM ALTITUDE:</b>	Up to 500 m;
<b>MAXIMUM SPEED / WORKING SPEED:</b>	25 m/s / 15-25 m/s;
<b>ALLOWED WIND SPEED:</b>	Up to 12 m/s;
<b>RADIO CONTROL CHANNEL:</b>	Two-channels 2.1-2.8/4.9-6.0 GHz with FHSS, resistant;
<b>VIDEO CHANNEL:</b>	Two-channels 2.1-2.8/4.9-6.0 GHz with FHSS, resistant;
<b>NAVIGATION:</b>	Resistant GNSS module and GNSS antenna;
<b>DIMENSIONS OVERALL / PROPELLER DIAMETER:</b>	420x420x200 mm / 335 mm;
<b>POWER SUSTEM:</b>	Semi-solad Li-Po accumulator battery 10/12 A/h, 6S, 25C with XT60 connector;
<b>WEIGHT WITHOUT BATTERY / WITH BATTERY:</b>	1.4 / 2.4 kg;
<b>CAMERA:</b>	Day light with optical zoom and AI function/dual day light and infrared with AI function.



The SHMAVIC UAV is capable of performing tasks typically assigned to Chinese drones but integrates technologies designed for modern warfare. The drone is equipped with a jamming-resistant radio communication system featuring frequency hopping (FHSS), which is fully interoperable with the KAZHAN system and vice versa.



The SHMAVIC is designed for reconnaissance missions and frontline surveillance. Additionally, based on operational experience, the drone has been equipped with a standard payload release system.



## KAZHAN ONEPOINT 5-100 (BAT)



### SPECIAL UAS REACTIVE DRONE KAZHAN ONEPOINT 5-100 (BAT)

Any equipment long time lifting in set point with ground power station and generator

#### TACTICAL AND TECHNICAL CHARACTERISTIC:

<b>FRAME:</b>	4 motors
<b>LOAD CAPACITY:</b>	Up to 10 kg
<b>ALTITUDE:</b>	Up to 100m in standard version
<b>MAXIMUM AIRTIME WITH LOAD:</b>	Up to 6 kg for 12+ hours / up to 10 for 4+ hours
<b>CONTROL SYSTEMS:</b>	Resistant one frequency, resistant three frequencies, resistant FHSS system, cable operation system (to be built upon customer request)
<b>REMOTE CONTROL:</b>	Smart remote with 7-inch screen, smart remote with 10-inch screen, online stream or one more screen stream opportunity
<b>CONTROL SYSTEMS:</b>	Resistant FHSS system, manual mode, point to point mode, coordinate fly, auto pilot fly
<b>NAVIGATION:</b>	GNSS, optical with beacon (to be installed upon customer request)
<b>ADDITION EQUIPMENT:</b>	Can be install any module and system upon customer request
<b>CAMERA:</b>	Opportunity to install any camera
<b>GROUND POWER SYSTEM:</b>	6 kVt (needed generator is 7-8+ kVt) 100m cable length, auto power control, cable tension control, breakage protection
<b>ACCUMULATORS:</b>	LiPo accumulator batteries 30000 mA with auto heating

## KAZHAN E630 FIREFIGHTER (BAT)



### SPECIAL UAS REACTIVE DRONE KAZHAN E630 FIREFIGHTER (BAT)

Electric drone equipped with powder bomb firefight system.

#### TACTICAL AND TECHNICAL CHARACTERISTIC:

<b>FRAME:</b>	6 motors
<b>LOAD CAPACITY:</b>	Up to 30
<b>ALTITUDE:</b>	Up to 400 m
<b>GROUND SPEED:</b>	Up to 25 m/s or 90km/h
<b>MAXIMUM PATH:</b>	Using one set of batteries up to 25 km without payload and up to 20 km performing combat task (50% of the way with payload and 50% without)
<b>OPERATION RADIUS:</b>	Up to 10 km
<b>RADIO CHANNEL:</b>	Up to 15 km
<b>CONTROL SYSTEMS:</b>	Resistant FHSS system, manual mode, point to point mode, coordinate fly, auto pilot fly
<b>NAVIGATION:</b>	GNSS module with remote antenna, CRPA based on Septentrio mosaic
<b>CAMERA:</b>	Double camera with 3 axis gimbal, 10 times optical zoom day module + infrared module 640*480 with 9 time zoom
<b>POWER SYSTEM:</b>	2 semi-solid LiPo accumulator batteries 72000 mA/h 7S or 100000 mA/h 7S 25C with auto heating
<b>NUMBER OF BOMBS:</b>	6 pieces
<b>FIREFIGHT BOMB TYPES:</b>	D130, D200, D250

## KAZHAN AGRO 30 (BAT)



### SPECIAL UAS REACTIVE DRONE KAZHAN AGRO 30 (BAT)

Agricultural drone (30l) for application of PPP with output about 10 l/ha

#### TACTICAL AND TECHNICAL CHARACTERISTIC:

<b>FRAME:</b>	6 motors
<b>TANK CAPACITY:</b>	30 L fixed
<b>WIND:</b>	Up to 10 m/s
<b>PERFORMANCE:</b>	12-15 ha per hour, 3-5 ha per fly
<b>OPERATING SPEED:</b>	Up to 10 m/s on plain, 6 m/s with big height difference
<b>OPERATING WIDE:</b>	7-9.5 m depends on altitude
<b>PUMP POWER:</b>	8 liters per minute regulated
<b>SPRAYING SYSTEM:</b>	4 single or twin nozzles ST or UV types
<b>SOLUTION CONSUMPTION:</b>	From 5 to 15 l/ha automatic or manual
<b>CONTROL SYSTEM:</b>	Smart remote control, Auto, AB, Manual modes
<b>NAVIGATION:</b>	GPS/GLONASS/RTK. Google Map or .kIm cartography
<b>RADARS:</b>	Obstacle direction radar, altitude control radar
<b>POWER SYSTEM:</b>	2 semi-solid LiPo accumulator batteries 72000 mA/h or 100000 mA/h (30 minutes charging time)

## KAZHAN HEAVY (BAT)



### SPECIAL PURPOSE UAS REACTIVE DRONE KAZHAN HEAVY (BAT)

Electric drone for heavy cargo delivery and munition drop missions.

#### TACTICAL AND TECHNICAL CHARACTERISTIC:

<b>FRAME:</b>	4-motors;
<b>PAYLOAD CAPACITY:</b>	up to 25 kg (up to 50 kg for short distances);
<b>FLIGHT ALTITUDE:</b>	up to 400 m;
<b>FLIGHT SPEED:</b>	up to 25 m/s;
<b>WIND RESISTANCE:</b>	up to 12 m/s;
<b>COMBAT RANGE:</b>	up to 35 km;
<b>CONTROL AND VIDEO TRANSMISSION CHANNEL:</b>	dual-channel 2.1–2.8 / 4.9–6.0 GHz with FHSS, jam-resistant;
<b>NAVIGATION:</b>	GNSS module with external GNSS antenna, satellite-free flight, anti-jamming mode, takeoff without satellites;

## POP-FLY



MULTIFUNCTIONAL PLATFORM REACTIVE DRONE

## POP-FLY

Operational-tactical level platform for reconnaissance and strike missions.

### TACTICAL AND TECHNICAL CHARACTERISTIC:

<b>RANGE:</b>	50–100 km;
<b>STRIKE RANGE:</b>	50–100 km;
<b>OPERATING ALTITUDE:</b>	up to 2000 m;
<b>MAX FLIGHT SPEED:</b>	up to 50 m/s;
<b>PERMISSIBLE WIND SPEED:</b>	up to 15 m/s;
<b>CONTROL CHANNEL:</b>	dual-channel 2.1–2.8 / 4.9–6.0 GHz with FHSS, jam-resistant;
<b>VIDEO TRANSMISSION CHANNEL:</b>	dual-channel 2.1–2.8 / 4.9–6.0 GHz with FHSS, jam-resistant;
<b>AERODYNAMIC LAYOUT:</b>	standard (conventional) configuration;
<b>WINGSPAN:</b>	1.2 m / 1.8 m;
<b>FUSELAGE LENGTH:</b>	0.93 m / 1.35 m;
<b>PAYLOAD:</b>	up to 2.5 kg / up to 5 kg;
<b>LAUNCH METHOD:</b>	tube-launched — pneumatic / pyrotechnic;
<b>LANDING METHOD (RECON CONFIGURATION):</b>	parachute.



“POP-FLY” is a multi-purpose platform designed for rapid (under 5 minutes) pneumatic launch and execution of reconnaissance and strike missions at the operational-tactical level.

The platform is integrated with the full existing “Reactive Drone” ecosystem for effective combat mission performance.

“POP-FLY” is produced in two sizes with payload capacities of up to 2.5 kg and up to 5 kg.

The “POP-FLY” kit includes 1 reconnaissance UAV and 5 loitering munition UAVs.



## GNSS MODULE



### COMPONENTS SYSTEMS FOR REACTIVE DRONE

## GNSS MODULE

A protected, jam-resistant GNSS module with antennas and a signal processing and spoofing rejection unit. Compatible with all satellite navigation systems, providing reliable positioning even under strong EW conditions. Used on drones like KAZHAN and demonstrates high performance across the front line.

### TACTICAL AND TECHNICAL CHARACTERISTIC:

**NAVIGATION SYSTEMS:**

GPS / BEIDOU / GLONAS / GALIEO;

**ANTENNA TYPE:**

helical;

**NUMBER OF ANTENNAS:**

5;

**FEATURES:**

Integrated spoofing rejection module connects directly to the flight controller, ensuring high resistance to interference and accurate positioning.

## T21 PRO COMMUNICATION SYSTEM



### COMPONENTS SYSTEMS FOR REACTIVE DRONE

## T21 PRO COMMUNICATION SYSTEM

Secure, jam-resistant FHSS-based communication system with a wide frequency range, used across all REACTIVE DRONE systems.

#### TACTICAL AND TECHNICAL CHARACTERISTIC:

**DISPLAY:**

10 inches;

**FHSS:**

enabled, jam-resistant;

**COMMUNICATION TYPE:**

dual-band, digital, encrypted;

**FREQUENCY RANGE:**

dual-channel 2.1–2.8 / 4.9–6.0 GHz;

**BATTERY LIFE:**

up to 8 hours;

**CHARGING WHILE OPERATING:**

available, no restrictions;

**ANTENNA INTERFACE:**

N-connector;

**PHYSICAL CONTROLS:**

2 joysticks, 4 three-position switches;

**INTERFACES:**

1 USB-C, 1 HDMI, 1 USB-A, 1 SD reader.

## FC FLIGHT CONTROLLER



COMPONENTS SYSTEMS FOR REACTIVE DRONE

## FC FLIGHT CONTROLLER

Proprietary flight controller developed by REACTIVE DRONE,  
used across the entire product line.

### TACTICAL AND TECHNICAL CHARACTERISTIC:

**TRANSMISSION PROTOCOL:**

SBUS;

**FLIGHT ACCURACY:**

0.2 m;

**MAX ANGLE OF ATTACK:**

35°;

**MAX ANGULAR VELOCITY:**

150°/s;

**MAX LINEAR SPEED:**

40 m/s;

**POWER:**

up to 5 W;

**OPERATING TEMPERATURE RANGE:**

-25°C to +60°C.

“Reactive Drone” LLC operates its own training school, certified by the Ministry of Defense of Ukraine in 2024.

The school is staffed by instructors with combat experience and specialists in UAV manufacturing and maintenance.

The UAV operator school includes over 30 training complexes where pilots train for missions in harsh EW environments and practice complex and specific flight modes.

Training lasts from 2 to 4 weeks.

After completing the program, trainees must pass both a theoretical and practical exam. Successful graduates are certified to operate the respective UAV system.

Drones produced by “Reactive Drone” LLC have passed codification, entered serial production, and have been assigned a NATO Stock Number.





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