

# OBRIY

Combat UAV simulator



# OBRIY

Advanced tactical simulator allowing to run combat mission in virtual environment

Built on the experience and best practices of using combat UAVs by the Ukrainian military.



## Problems we are solving

### **High cost of training**

- ✓ reduces training costs through virtual scenarios

### **Insufficient training of UAV operators**

- ✓ Allows you to practice skills without the risk of losing your equipment.

### **Poor coordination between units**

- ✓ provides coordinated operations training

### **Lack of ability to analyze tactical errors**

- ✓ the system provides a detailed breakdown of each mission

## Why OBRIY?

- Recreating more than 60,000 km<sup>2</sup> of combat zone

- 60+ prepared locations of the
- Russo-Ukrainian war  
available right now



Бахмут	14 ✓
Горлівка	
Мар'їнка	1
Криники	
Яворів	
Запоріжжя схід	1
Авдіївка	
Оріхів	
Кремінна	3
Куп'янськ	
Кінбурнський півострів	1
Олешки	2

**Бахмут**  
Кількість місій: 14  
Координати: 48.59, 38.00  
Region ID: 1001



## Detailed environment

- Realistic landscape
- The terrain is modeled based on real height maps.
- Artificial structures are located based on satellite images



## Realistic flight physics

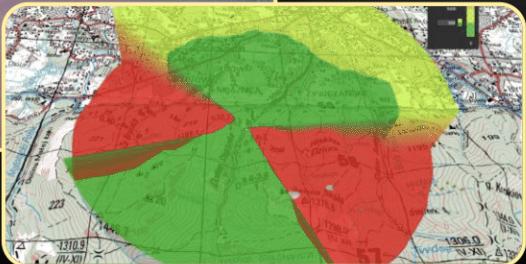
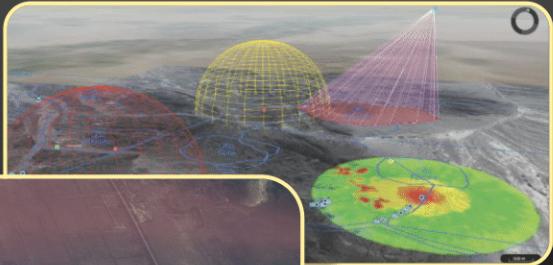


Drone flight takes into account:

- payload
- wnd load
- turbulences
- batteries

## Imitation of communication channels

- radio comm
- steering channel
- satellites (GPS)
- EW Jammers



## Tactical operations simulation

- reenactment of combat
- teaching tactics
- creating engage and reconnaissance missions



## Advanced combat functionality



- Over 20 different ammunition
- 4 types of detonators
- Drop-off mechanism

Mission practice with different scenarios

○ Mission “Air-to-air”



○ Exploring the area



○ Night missions



## Artillery and drone interaction scenarios

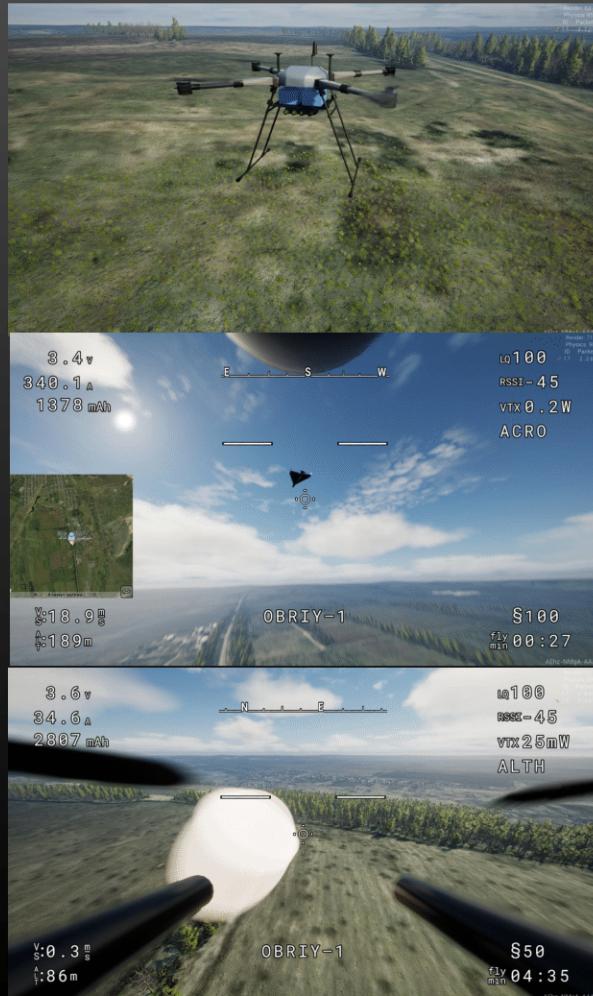
### ○ Artillery adjustments



### ○ Controlling strike drones

## Additional benefits

- Experimental drone models:
  - fpv interceptor against shahids
  - multirotor "light scout".
  - multirotor "heavy bomber".
- Added shotgun on drone
- Added repeater to multiplayer



## Additional benefits

- Experimental drone models
- Adding new modules to drone control
- Training pilots to use experimental technologies in tactical conditions



## Extended compatibility



- Interaction of several crews together, joint performance of tasks
- Reconnaissance, adjustment, strike missions
- Support for other military simulators via DIS protocol
- Internet and local network

## Advanced capabilities

- ArduPilot and Betaflight firmware
- Custom firmware options
- Support for other military simulators via DIS protocol
- Setting OSD items
- 



## Requirements

### **Operational system:**

Windows 10 or 11

### **Graphical card:**

Nvidia 1050/1650 or higher

### **RAM:**

min 8 Gb, recommended 16 Gb

### **Control devices:**

remote control or gamepad  
(TX12 support)

## Credentials



## 3rd Assault Battalion

Navigation is our everything. The percentage of hits is now not 60, but 90. And tasks such as flying from an unknown factory to an unknown hangar no longer sound like nonsense. If you first use a simulator and know what landmarks look like. Our pilots fly in the “Obriya”, and then on real terrain. And this is a new level.

**OBRIY is more than simulator**

**This is a powerful tool for training the military in modern conditions.**

**It helps save resources, improve interaction between departments, and adapt to new challenges.**

**Using a simulator increases the level of combat readiness**

**The software is regularly updated based on the analysis of combat situations and the experience of operators.**

OBRIY

- ✓ 3500 active users (military pilots)
- ✓ 160 training centers (military)
- ✓ 150 new users each week
- ✓ 12000 targets destroyed each week

<https://obriy.airforce/>

Get to know the “OBRIY” simulator



Contact us and  
get access

[Video](#)

380 50 567 4381

Signal, WhatsApp  
\* No calls