Machine Translated by Google

SECRET

(paragraph 752, clause 3 of the List) Copy No. _

GENERAL STAFF OF THE ARMED FORCES OF THE RUSSIAN FEDERATION

СПРАВОЧНИК

FPV-ДРОНЫ, ПРИМЕНЯЕМЫЕ ВС РФ В СВО

Vladikavkaz
2024

Machine Translated by Google

This reference book presents FPV drones and countermeasures used in various conditions by formations of the Joint Forces (forces) of the Armed Forces of the Russian Federation in a special military operation.

An analysis of the use of UAVs in the air defense system showed that the total share of FPV drones is 90% of all types of UAVs. This is due to the high speed and maneuverability, constant improvement of manufacturing technologies and the low cost of FPV drones compared to other UAVs.

This reference book has been prepared for the purpose of disseminating information about FPV drones used in the Air Defense Forces and is intended for officials of troop groups, central military command bodies, military educational institutions and research organizations of the Ministry of Defense of the Russian Federation.

The handbook was prepared by the authors of the department (summarizing the experience of combat operations) of the Joint Forces (s) Colonels Rumyantsev V.V., Torbin S.A., Lieutenant Colonels Osokin K.A., Shepranov V.V., Majors Yemelyanov D.V., Mosolov A.A., Pobegaylo A.D., Shatalov I.V. Handbook of FPV drones used by the RF

Armed Forces in the Air Defense Forces / under the general editorship.
Colonel General V.V. Trushin. Joint Forces (s), 2024 – 63 p.

Machine Translated by Google

Table of contents

Section 1

FPV-DRONES
OF COPTER TYPE



PAGE 4

Section 2

FPV DRONES
OF AIRCRAFT
AND HELICOPTER TYPE



PAGE 31

Section 3

COPTER TYPE UAV WITH
FPV FUNCTION



PAGE 35

Section 4

IMPACT LOAD
FPV DRONES



PAGE 45

Section 5

MEANS OF SUPPRESSION
FPV DRONES



PAGE 51

Machine Translated by Google

Purpose, main tasks, design features and methods of combating FPV drones

FPV drones are designed to destroy objects, manpower, armored, lightly armored and enemy vehicles, ensuring situational awareness during combat operations. **The main tasks** are: • reconnaissance of the terrain, enemy targets, routes of movement of personnel and weapons and equipment; • fire destruction of personnel, armored, lightly armored and automotive equipment; • fire support for attacking and defending troops; • interception of enemy drones (defeat in the air); • remote mining.

The design features of FPV drones, **in contrast** to quadcopter-type UAVs, are: • availability of video glasses and a control panel in the "first-person view" mode; • absence of a satellite navigation receiver and autopilot; • possibility of using transceiver control modules operating at different frequencies; • use of specialized, adapted ammunition and improvised explosive devices. Specialized - ammunition manufactured in factory conditions, intended for use by UAVs of this type.

Adapted - ammunition and warheads of grenade launcher systems, engineering weapons and ammunition for drops from UAVs, modified in technical units for use by FPV drones.

Homemade - explosive devices manufactured in technical units. During manufacture, they can Various types of explosives, chemical mixtures, detonators and striking elements are used.

The fight against enemy FPV drones is divided into two main components: detection and counteraction. Methods of fighting enemy FPV drones are divided into active and passive. Active methods of fighting include: • defeat of FPV drones with small arms; • electronic suppression of FPV drone control signals; • fire destruction of enemy FPV control points.

Passive methods of combat include: • equipping fortifications; • creating false positions; • camouflaging your positions; • using protective nets and metal structures

Machine Translated by Google

Section 1
FPV-DRONES OF COPTER TYPE

• FPV drone "RTD-K"
• FPV drone "Kort" •
FPV drone 5 inches •
FPV drone 7 inches •
FPV drone "Darwin X9" •
FPV drone "Boomerang"
• FPV drone "Brus-1" •
FPV drone "Boomerang-ERA"
• FPV drone "Gortensia-7" •
FPV drone "Gortensia-10" •
FPV drone "XL-10" •
FPV drone "Ploshchad-K" •
FPV drone "PVH-1" •
FPV drone "Chimera" •
FPV drone "Ovod" •
FPV drone "ASK X-2" •
FPV drone "Shmel" •
FPV drone "Veles"

• FPV-drone "D-11-1"
• FPV-drone "Kurs - 800TB" •
FPV-drone "Zhmil-17" •
FPV-drone "Vespa" •
FPV-drone "Skvorets-7" •
FPV-drone " Skvorets-10" •
FPV-drone "Skvorets-Z" •
FPV-drone "Skvorets PRO" •
FPV-drone "Predator-2PG" •
FPV-drone "Katyusha" •
FPV-drone "Product 1-390" •
FPV- drone "Slepen" •
FPV drone "Ryabchik"
• FPV drone "Courier"
• FPV drone A8 3300 "Alyosha"
• FPV drone "Boomerang-
ERA" FPV drone "Granat-3"

• FPV drone "Monolith-FPV-7" •
FPV drone "Osa" •
FPV drone "Lun-7 (10)" •
FPV drone "Wind" •
FPV drone "Antonov" •
FPV drone 9 inches •
FPV drone 10 inches •
FPV drone "Komar" •
FPV drone "Ultimatum" •
FPV drone "Piranha-7" •
FPV drone "Piranha-10" •
FPV drone "Lutik-Kamikaze" • FPV
drone "Boomerang-10" • FPV
drone "Type-450" • FPV
drone "Microbe" • FPV
drone "Dozor" • FPV
drone "Upyr"

Machine Translated by Google

FPV drone "RTD-K"

The FPV drone "RTD-K" is designed for high-precision defeat of enemy military equipment and manpower with targeting in manual mode by video signal



Parameter name	Meaning
Maximum takeoff weight, kg	6
Payload weight, kg	up to 2.5
Radius, km	up to 6
Flight time, min	8 / 25
Speed, km/h	170
Practical ceiling, m	2000
Operating temperature range, °C	from -10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	8000
Operating frequency range, MHz	930 / 2400; 5800
Manufacturer	LLC "NPO Rustechnodron"

FPV Drone "Kort"

FPV Drone "Kort"

FPV drone "Court" designed for percussion and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	6
Payload weight, kg	up to 2.5
Radius, km	up to 6
Flight time, min	6 / 25
Speed, km/h	150
Practical ceiling, m	3000
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	4000
Operating frequency range, MHz	433 – 915 / 1200
Manufacturer	LLC "TSUGAM"

Machine Translated by Google

FPV Drone 5 Inch

5 inch FPV drone designed for shock and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	3.4
Payload weight, kg	up to 1.4
Radius, km	up to 5
Flight time, min	up to 10
Speed, km/h	up to 110
Practical ceiling, m	100
Operating temperature range, °C	from -10 to +30
Launch/Landing Method	vertical
Battery capacity, mAh	3600
Operating frequency range, MHz	1080 – 1320
Manufacturer	Russia

FPV Drone 7 Inch

7 inch FPV drone designed for shock and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	4.8
Payload weight, kg	up to 3
Radius, km	up to 18
Flight time, min	up to 15
Speed, km/h	up to 100
Practical ceiling, m	140
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	5800
Operating frequency range, MHz	1080 – 1320
Manufacturer	Russia

Machine Translated by Google

FPV drone "Darwin X9"

FPV drone "Darwin X9" is designed for shock and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	5
Payload weight, kg	up to 3.7
Radius, km	up to 3
Flight time, min	up to 10
Speed, km/h	up to 170
Practical ceiling, m	6000
Operating temperature range, °C	from -10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	5000
Operating frequency range, MHz	5800 / 915; 2400
Manufacturer	Russia

FPV drone "Boomerang"

FPV drone "Boomerang" is designed for shock and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	5
Payload weight, kg	up to 3.5
Radius, km	up to 4.5
Flight time, min	to
Speed, km/h	up to 180
Practical ceiling, m	1000
Operating temperature range, °C	from -10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	4500
Operating frequency range, MHz	433; 868; 915 / 5800
Manufacturer	Russia

Machine Translated by Google

FPV drone "Brus-1"

FPV drone "Brus-1" is designed for impact and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	3.5
Payload weight, kg	up to 1.5
Radius, km	up to 4
Flight time, min	up to 25
Speed, km/h	up to 150
Practical ceiling, m	1000
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	4000
Operating frequency range, MHz	868 / 1200; 5800
Manufacturer	LLC "TSUGAM"

FPV drone "Boomerang-E"

The FPV drone "Boomerang - ERA" is designed to destroy enemy manpower and military equipment



Parameter name	Meaning
Maximum takeoff weight, kg	5.8
Payload weight, kg	up to 4
Radius, km	up to 10
Flight time, min	up to 10
Speed, km/h	up to 165
Practical ceiling, m	3000
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	5000
Operating frequency range, MHz	868 – 950 / 5333 – 5945
Manufacturer	LLC "NPO RUSTECHDRON"

Machine Translated by Google

FPV drone "Hortensia-7"

FPV drone "Gortensia-7" is designed for shock and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	3.5
Payload weight, kg	up to 2
Radius, km	up to 6
Flight time, min	up to 8
Speed, km/h	up to 130
Practical ceiling, m	1600
Operating temperature range, °C	from -10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	6000
Operating frequency range, MHz	1080 – 1320
Manufacturer	LLC "KB "LiS" Vsevolozhsk

FPV drone "Hortensia-10"

FPV drone "Gortensia-10" is designed for shock and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	5
Payload weight, kg	up to 3
Radius, km	up to 8
Flight time, min	up to 8
Speed, km/h	up to 150
Practical ceiling, m	1600
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	8000
Operating frequency range, MHz	1080 – 1320
Manufacturer	LLC "KB "LiS" Vsevolozhsk city

Machine Translated by Google

FPV Drone "XL-10"

FPV drone «XL-10» intended for impact for reconnaissance and support activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	4.7
Payload weight, kg	up to 3.5
Radius, km	up to 10
Flight time, min	up to 12
Speed, km/h	up to 140
Practical ceiling, m	1000
Operating temperature range, °C	-10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	5000
Operating frequency range, MHz	868; 915 / 2400; 5800
Manufacturer	Russia

FPV drone "Square-K"

FPV drone "Square-K" is designed for shock and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	2
Payload weight, kg	up to 1
Radius, km	up to 10
Flight time, min	up to 15
Speed, km/h	up to 125
Practical ceiling, m	1000
Operating temperature range, °C	-10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	5000
Operating frequency range, MHz	868; 915 / 5850
Manufacturer	JSC "Square" Moscow

Machine Translated by Google

FPV drone "PVC-1"

FPV drone "PVC-1" is intended for shock reconnaissance and support activities for assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	4.2
Payload weight, kg	up to 3
Radius, km	up to 10
Flight time, min	up to 15
Speed, km/h	up to 180
Practical ceiling, m	800
Operating temperature range, °C	-10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	4500
Operating frequency range, MHz	868; 915 / 5800
Manufacturer	OOO "Rustakt" Rostov-on-Don

FPV drone "Chimera"

FPV drone "Chimera" is designed for strike missions and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	4.2
Payload weight, kg	up to 3
Radius, km	up to 10
Flight time, min	up to 15
Speed, km/h	up to 180
Practical ceiling, m	800
Operating temperature range, °C	-10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	4500
Operating frequency range, MHz	433; 868; 915 / 5800
Manufacturer	Russia

Machine Translated by Google

FPV Drone "Gadfly"

FPV drone "Ovod" is designed for percussion and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	5.4
Payload weight, kg	up to 4.5
Radius, km	up to 5
Flight time, min	up to 10
Speed, km/h	up to 180
Practical ceiling, m	5000
Operating temperature range, °C	-10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	8000
Operating frequency range, MHz	385 / 4990 – 5200
Manufacturer	LLC "RLVT" Tula city

FPV drone "ASK X-2"

FPV drone "ASK X-2" is designed for shock and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	4.8
Payload weight, kg	up to 2.8
Radius, km	up to 15
Flight time, min	up to 30
Speed, km/h	up to 70
Practical ceiling, m	3000
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	6000
Operating frequency range, MHz	900 / 2400; 5800
Manufacturer	LLC "ASK" Moscow

Machine Translated by Google

FPV drone "Bumblebee"

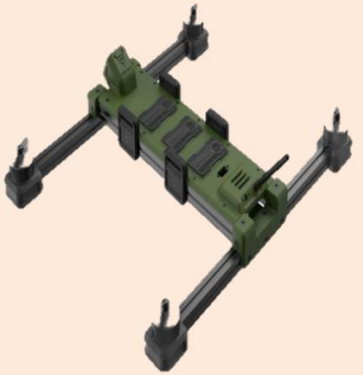
FPV drone "Bumblebee" is designed for shock and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	2
Payload weight, kg	up to 1.5
Radius, km	up to 5000 / up to 13000 (when using an external antenna)
Flight time, min	up to 15
Speed, km/h	up to 150
Practical ceiling, m	2000
Operating temperature range, °C	from -30 to +50
Launch/Landing Method	vertical
Battery capacity, mAh	4200
Operating frequency range, MHz	1080 – 1320
Manufacturer	IP Zhuchenko S.V. Rostov-on-Don

FPV drone "Veles"

FPV drone "Veles" is designed for percussion and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	4.3
Payload weight, kg	up to 3
Radius, km	up to 10
Flight time, min	up to 15
Speed, km/h	up to 100
Practical ceiling, m	1000
Operating temperature range, °C	From -10 to +50
Launch/Landing Method	vertical
Battery capacity, mAh	5000
Operating frequency range, MHz	1200; 2400; 5800
Manufacturer	Russia

Machine Translated by Google

FPV drone "D-11-1"

The FPV drone "D-11-1" is designed for high-precision defeat of enemy military equipment and manpower with targeting in manual mode by video signal



Parameter name	Meaning
Maximum takeoff weight, kg	4.7
Payload weight, kg	up to 4
Radius, km	up to 10
Flight time, min	up to 15
Speed, km/h	up to 120
Practical ceiling, m	3000
Operating temperature range, °C	-10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	5000
Operating frequency range, MHz	868; 915 / 1200; 5800
Manufacturer	IP Zhuchenko S.V. Rostov-on-Don

FPV drone "Kurs - 800TB"

The FPV drone "Kurs-800TB" is designed for reconnaissance, determining coordinates at night and during the day, as well as to hit identified targets



Parameter name	Meaning
Maximum takeoff weight, kg	2.5
Payload weight, kg	up to 0.8
Radius, km	up to 6
Flight time, min	up to 50
Speed, km/h	up to 36
Practical ceiling, m	3000
Operating temperature range, °C	-10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	7000
Operating frequency range, MHz	868; 915 / 5800
Manufacturer	JSC "OKB ASTRON" Moscow region

Machine Translated by Google

FPV drone "Zhmil-17"

FPV drone "Zhmil-17" is designed for shock and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	2,2
Payload weight, kg	1.4
Radius, km	up to 8
Flight time, min	up to 15
Speed, km/h	up to 130
Practical ceiling, m	5000
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	4000
Operating frequency range, MHz	868 – 915 / 5725 – 5850
Manufacturer	Hammer Arms LLC

FPV Drone "Vespa"

FPV drone "Vespa" is designed for percussion and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	2.5
Payload weight, kg	up to 1
Radius, km	up to 15
Flight time, min	up to 15
Speed, km/h	up to 35
Practical ceiling, m	1000
Operating temperature range, °C	from -10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	5000
Operating frequency range, MHz	868 – 915 / 5800
Manufacturer	OOO Prom Composite" Moscow

Machine Translated by Google

FPV drone "Skvorets-7"

FPV drone "Skvorets-7" is designed for shock and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	5.3
Payload weight, kg	up to 3.5
Radius, km	up to 20
Flight time, min	up to 20
Speed, km/h	up to 150
Practical ceiling, m	800
Operating temperature range, °C	from -10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	6000
Operating frequency range, MHz	300 / 4900 – 5100
Manufacturer	"Technodrone"

FPV drone "Skvorets-10"

FPV drone "Skvorets-10" is designed for shock and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	6.3
Payload weight, kg	up to 3.5
Radius, km	up to 30
Flight time, min	up to 15
Speed, km/h	up to 150
Practical ceiling, m	1000
Operating temperature range, °C	from -10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	7000
Operating frequency range, MHz	300 – 500 / 4900 – 5100
Manufacturer	"Technodrone"

Machine Translated by Google

FPV drone "Skvorets-Z"

FPV drone "Skvorets-Z" is designed to destroy stationary enemy targets and moving in automatic mode



Parameter name	Meaning
Maximum takeoff weight, kg	4
Payload weight, kg	up to 2.5
Radius, km	up to 10
Flight time, min	up to 20
Speed, km/h	up to 100
Practical ceiling, m	800
Operating temperature range, °C	from -10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	7000
Operating frequency range, MHz	300 / 4900 – 5100
Manufacturer	"Technodrone"

FPV drone "Starling PRO"

FPV drone "Skvorets PRO" is designed for reconnaissance and high-precision destruction of enemy manpower does not require advanced piloting skills, maintains altitude and autonomously automatically flies to the target



Parameter name	Meaning
Maximum takeoff weight, kg	3
Payload weight, kg	up to 1.5
Radius, km	up to 10
Flight time, min	up to 20
Speed, km/h	up to 108
Practical ceiling, m	800
Operating temperature range, °C	from -10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	8000
Operating frequency range, MHz	300 / 4900 – 5100
Manufacturer	"Technodrone"

Machine Translated by Google

FPV drone "Predator-2PG"

FPV drone "Predator-2PG" is designed to destroy enemy armored vehicles with PG-7S shots from a hand-held RPG-7 grenade launcher



Parameter name	Meaning
Maximum takeoff weight, kg	6.5
Payload weight, kg	up to 5
Radius, km	up to 7
Flight time, min	up to 40
Speed, km/h	up to 79
Practical ceiling, m	1200
Operating temperature range, °C	-10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	10000
Operating frequency range, MHz	915 / 5800
Manufacturer	Russia

FPV drone "Katyusha"

FPV drone "Katyusha" is designed to destroy manpower enemy on the battlefield and in urban environments



Parameter name	Meaning
Maximum takeoff weight, kg	3.5
Payload weight, kg	up to 2.4
Radius, km	up to 10
Flight time, min	10
Speed, km/h	up to 160
Practical ceiling, m	4000
Operating temperature range, °C	-20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	6000
Operating frequency range, MHz	868; 915 / 5850
Manufacturer	ANO "Archangel" Krasnodar city

Machine Translated by Google

FPV drone "Product 1-390"

FPV drone "Product 1-390" is designed for high-precision defeat of enemy military equipment and manpower with targeting in manual mode by video signal



Parameter name	Meaning
Maximum takeoff weight, kg	3.3
Payload weight, kg	up to 2
Radius, km	up to 8
Flight time, min	up to 30
Speed, km/h	up to 120
Practical ceiling, m	20
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	5000
Operating frequency range, MHz	n/a
Manufacturer	LLC "KBB-77" Moscow

FPV drone "Slepen"

FPV drone "Slepen" is designed for shock and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	4.4
Payload weight, kg	up to 3.5
Radius, km	up to 10
Flight time, min	up to 15
Speed, km/h	up to 180
Practical ceiling, m	800
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	4500
Operating frequency range, MHz	868; 915 / 5850
Manufacturer	Russia

Machine Translated by Google

FPV drone "Ryabchik"

FPV drone "Ryabchik" is designed for percussion and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	2
Payload weight, kg	up to 0.8
Radius, km	up to 2
Flight time, min	up to 15
Speed, km/h	up to 70
Practical ceiling, m	1000
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	4500
Operating frequency range, MHz	868; 915 / 2400; 5800
Manufacturer	Russia

FPV drone "Courier"

FPV drone "Courier" is designed to destroy manpower enemy, shelters and lightly armored vehicles



Parameter name	Meaning
Maximum takeoff weight, kg	4.8
Payload weight, kg	up to 3.5
Radius, km	up to 10
Flight time, min	up to 13
Speed, km/h	up to 60
Practical ceiling, m	1000
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	5000
Operating frequency range, MHz	868; 915 / 2400; 5800
Manufacturer	Tula city

Machine Translated by Google

FPV drone A8 3300 "Alyosha"

FPV drone "A8 3300" "Alyosha" is designed to destroy enemy manpower, armored vehicles, ground forces and water transport, as well as for opening fire points and artillery damage



Parameter name	Meaning
Maximum takeoff weight, kg	4.2
Payload weight, kg	up to 3
Radius, km	up to 7
Flight time, min	up to 22
Speed, km/h	up to 120
Practical ceiling, m	3000
Operating temperature range, °C	-10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	6000
Operating frequency range, MHz	520 / 5600
Manufacturer	LLC "IONOS" Rostov-on-Don

FPV drone "Boomerang-ERA"

The FPV drone "Boomerang - ERA" is designed to destroy enemy manpower and military equipment



Parameter name	Meaning
Maximum takeoff weight, kg	3.1
Payload weight, kg	up to 2
Radius, km	up to 5
Flight time, min	up to 15
Speed, km/h	up to 200
Practical ceiling, m	1000
Operating temperature range, °C	-10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	6000
Operating frequency range, MHz	868 / 5800
Manufacturer	VIT "ERA" and OOO OKB "Hover"

Machine Translated by Google

FPV drone "Granat-3"

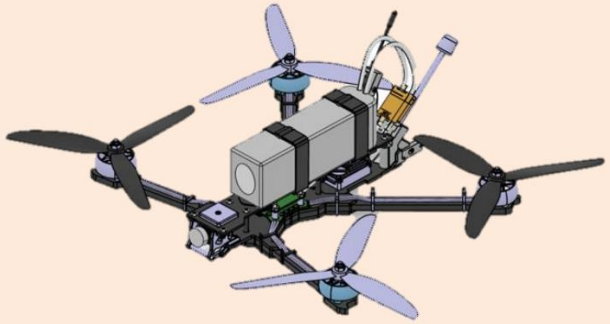
The FPV drone "Granat-3" is designed for search, detection and target recognition, guidance and fire destruction enemy on the battlefield, including under conditions of exposure interference and lack of direct visibility



Parameter name	Meaning
Maximum takeoff weight, kg	6
Payload weight, kg	up to 3
Radius, km	up to 7
Flight time, min	up to 15
Speed, km/h	up to 35
Practical ceiling, m	3000
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	5000
Operating frequency range, MHz	868; 915 / 2400; 5800
Manufacturer	JSC "OKB "Astron" city of Lytkarino

FPV drone "Monolith-FPV-7" 2

FPV drone "Monolith-FPV-7" is designed to destroy enemy manpower and military equipment



Parameter name	Meaning
Maximum takeoff weight, kg	0.654
Payload weight, kg	up to 3
Radius, km	up to 10.9
Flight time, min	up to 15
Speed, km/h	up to 130
Practical ceiling, m	1000
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	4500 / 6000
Operating frequency range, MHz	868 – 915 / 5362 – 5945
Manufacturer	OOO Monolith Moscow

Machine Translated by Google

FPV Drone "Wasp"

FPV drone "Wasp" designed for percussion and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	6
Payload weight, kg	up to 2
Radius, km	up to 4
Flight time, min	up to 25
Speed, km/h	up to 150
Practical ceiling, m	400
Operating temperature range, °C	from -20 to +40 °C
Launch/Landing Method	vertical
Battery capacity, mAh	4000
Operating frequency range, MHz	868 – 915 / 5800
Manufacturer	LLC "TSUGAM"

FPV drone "Lun-7 (10)"

The FPV drone "Lun-7 (10)" is designed to destroy living enemy forces and small shelters



Parameter name	Meaning
Maximum takeoff weight, kg	3.2
Payload weight, kg	up to 2.5
Radius, km	up to 8
Flight time, min	up to 40
Speed, km/h	up to 140
Practical ceiling, m	4000
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	7000
Operating frequency range, MHz	1080 – 1320
Manufacturer	"NPO AVIABAS"

Machine Translated by Google

FPV Drone "Wind"

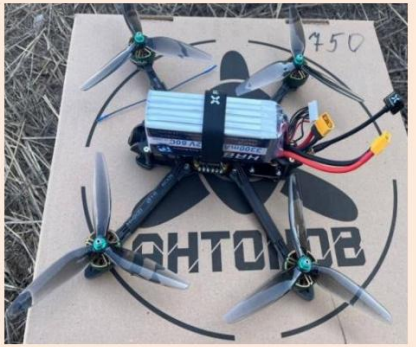
The FPV drone "Wind" is designed for air surveillance reconnaissance, destruction of enemy manpower



Parameter name	Meaning
Maximum takeoff weight, kg	1.5
Payload weight, kg	up to 0.31
Radius, km	up to 15
Flight time, min	up to 30
Speed, km/h	90
Practical ceiling, m	3000
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	4500
Operating frequency range, MHz	1080 – 1320
Manufacturer	JSC "Kotlin" Innovator"

FPV drone "Antonov"

Antonov FPV drone is designed for strike missions and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	5.2
Payload weight, kg	up to 4
Radius, km	up to 7.5
Flight time, min	up to 15
Speed, km/h	up to 70
Practical ceiling, m	1000
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	5000
Operating frequency range, MHz	865; 915 / 5800
Manufacturer	Russia

Machine Translated by Google

FPV Drone 9 Inch

9 inch FPV drone designed for shock and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	5.8
Payload weight, kg	up to 3
Radius, km	up to 10
Flight time, min	up to 15
Speed, km/h	up to 150
Practical ceiling, m	1600
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	7500
Operating frequency range, MHz	1080 – 1320
Manufacturer	Russia

FPV Drone 10 Inch

FPV drone 10 inches designed for shock and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	5.8
Payload weight, kg	up to 3.5
Radius, km	up to 10
Flight time, min	up to 15
Speed, km/h	up to 150
Practical ceiling, m	1600
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	7500
Operating frequency range, MHz	1080 – 1320
Manufacturer	Russia

Machine Translated by Google

FPV Drone "Mosquito"

The FPV drone "Komar" is designed for reconnaissance, destruction of adjustments techniques enemy, artillery fire



Parameter name	Meaning
Maximum takeoff weight, kg	1.8
Payload weight, kg	up to 1.5
Radius, km	up to 10
Flight time, min	up to 30
Speed, km/h	up to 85
Practical ceiling, m	140
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	5800
Operating frequency range, MHz	1080 – 1320
Manufacturer	Russia

FPV Drone "Ultimatum"

The Ultimatum FPV drone is designed for reconnaissance, destruction of adjustments techniques enemy, artillery fire



Parameter name	Meaning
Maximum takeoff weight, kg	4.8
Payload weight, kg	up to 3
Radius, km	up to 15
Flight time, min	up to 30
Speed, km/h	up to 200
Practical ceiling, m	180
Operating temperature range, °C	from -30 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	5800
Operating frequency range, MHz	1080 – 1320
Manufacturer	Russia

Machine Translated by Google

FPV drone "Piranha-7"

The FPV drone "Piranha" is designed for reconnaissance, destruction of adjustments techniques enemy, artillery fire



Parameter name	Meaning
Maximum takeoff weight, kg	3.8
Payload weight, kg	up to 2.5
Radius, km	up to 7
Flight time, min	up to 13
Speed, km/h	up to 125
Practical ceiling, m	1000
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	8000
Operating frequency range, MHz	300; 735; 868; 915 / 1200; 4900; 5800
Manufacturer	SKB Piranha, Yekaterinburg

FPV drone "Piranha-10"

FPV drone "Piranha-10" is designed for strike missions and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	6
Payload weight, kg	up to 4.5
Radius, km	up to 11
Flight time, min	up to 13.3
Speed, km/h	up to 140
Practical ceiling, m	1000
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	8000
Operating frequency range, MHz	300; 735; 868; 915 / 1200; 4900; 5800
Manufacturer	SKB Piranha, Yekaterinburg

Machine Translated by Google

FPV drone "Buttercup Kamikaze"

The FPV drone "Lutik-Kamikaze" is designed for conducting reconnaissance and delivery of ammunition for the purpose of destroying living forces in dugouts and special shelters, as well as enemy armored vehicles



Parameter name	Meaning
Maximum takeoff weight, kg	5.1
Payload weight, kg	up to 3.6
Radius, km	up to 23
Flight time, min	up to 10
Speed, km/h	up to 130
Practical ceiling, m	1500
Operating temperature range, °C	-15 to +50
Launch/Landing Method	vertical
Battery capacity, mAh	5000
Operating frequency range, MHz	433; 868 / 1240; 5800
Manufacturer	Sakhalin Center for Unmanned Aerial Vehicles technologies

FPV drone "Boomerang-10"

The FPV drone "Boomerang-10" is designed for strike missions and reconnaissance activities, support of activities assault groups



Parameter name	Meaning
Maximum takeoff weight, kg	6.5
Payload weight, kg	up to 3
Radius, km	up to 6
Flight time, min	up to 20
Speed, km/h	up to 150
Practical ceiling, m	600
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	8000
Operating frequency range, MHz	720-1020 / 4900-5900
Manufacturer	LLC "TSUGAM"

Machine Translated by Google

FPV drone "Type-450"

The FPV drone "Type-450" is designed for reconnaissance, defeat of enemy manpower and military equipment



Parameter name	Meaning
Maximum takeoff weight, kg	1.6
Payload weight, kg	up to 0.6
Radius, km	up to 7
Flight time, min	up to 15
Speed, km/h	up to 130
Practical ceiling, m	100
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	5000
Operating frequency range, MHz	868 – 950 / 5333 – 5945
Manufacturer	OOO "RDR Group" Moscow

FPV drone "Microbe"

The FPV drone "Microbe" is designed for reconnaissance, destruction of enemy equipment, adjustment of artillery fire



Parameter name	Meaning
Maximum takeoff weight, kg	4
Payload weight, kg	up to 2.5
Radius, km	up to 15
Flight time, min	up to 16
Speed, km/h	up to 170
Practical ceiling, m	300
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	4000
Operating frequency range, MHz	503; 750; 866 / 1100 – 1300; 4900
Manufacturer	company "Square"

Machine Translated by Google

FPV drone "Dozor"

The FPV drone "Dozor" is designed for reconnaissance, defeat of enemy manpower and military equipment



Parameter name	Meaning
Maximum takeoff weight, kg	2.7
Payload weight, kg	up to 1.2
Radius, km	up to 10
Flight time, min	up to 20
Speed, km/h	up to 130
Practical ceiling, m	1000
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	5000
Operating frequency range, MHz	868 – 915 / 5800
Manufacturer	OOO Prom Kompozit, Moscow

FPV Drone "Ghoul"

FPV drone "Ghoul" is designed to destroy living enemy forces and techniques



Parameter name	Meaning
Maximum takeoff weight, kg	3.5
Payload weight, kg	up to 1.5
Radius, km	up to 7
Flight time, min	up to 30
Speed, km/h	up to 120
Practical ceiling, m	1000
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	6000
Operating frequency range, MHz	860 – 1020 / 1200; 5800
Manufacturer	UralDronZavod LLC, Yekaterinburg

Machine Translated by Google

Section 2

FPV DRONES OF AIRCRAFT AND HELICOPTER TYPE

- FPV drone "Blueberry-1"
- FPV drone "Blueberry-2"
- FPV drone "Privet-82"
- FPV drone "Komar"
- FPV drone "Molniya-1" •
FPV drone "Molniya-1 AI"

Machine Translated by Google

FPV drone "Blueberry-1"

The FPV aircraft-type drone "Chernika-1" is designed for high-precision destruction of enemy weapons and personnel with manual targeting using a video signal



Parameter name	Meaning
Maximum takeoff weight, kg	5.8
Payload weight, kg	up to 2.2
Radius, km	up to 25
Flight time, min	up to 80
Speed, km/h	up to 120
Practical ceiling, m	1000
Operating temperature range, °C	from -10 to +40
Launch/Landing Method	pneumatic catapult
Battery capacity, mAh	5000
Operating frequency range, MHz	740; 868; 915 / 1200; 2400; 5800
Manufacturer	Russia

FPV drone "Blueberry-2"

The FPV aircraft-type drone "Chernika-2" is designed for high-precision destruction of enemy weapons and personnel with manual targeting using a video signal



Parameter name	Meaning
Maximum takeoff weight, kg	5.8
Payload weight, kg	up to 2.2
Radius, km	up to 25
Flight time, min	up to 80
Speed, km/h	up to 120
Practical ceiling, m	1000
Operating temperature range, °C	from -10 to +40
Launch/Landing Method	pneumatic catapult
Battery capacity, mAh	5000
Operating frequency range, MHz	740; 868; 915 / 1200; 2400; 5800
Manufacturer	Russia

Machine Translated by Google

FPV drone "Privet-82"

FPV drone "Privet-82" is designed for high-precision defeat of enemy military equipment and manpower with targeting in manual mode by video signal



Parameter name	Meaning
Maximum takeoff weight, kg	8.5
Payload weight, kg	up to 4.5
Radius, km	up to 30
Flight time, min	up to 20
Speed, km/h	up to 170
Practical ceiling, m	2000
Operating temperature range, °C	from -10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	8000
Operating frequency range, MHz	930 / 2400; 5800
Manufacturer	LLC "SPDBBK"

FPV Drone "Mosquito"

The FPV helicopter-type drone "Komar" is designed for high-precision destruction of enemy weapons and personnel with manual targeting using a video signal

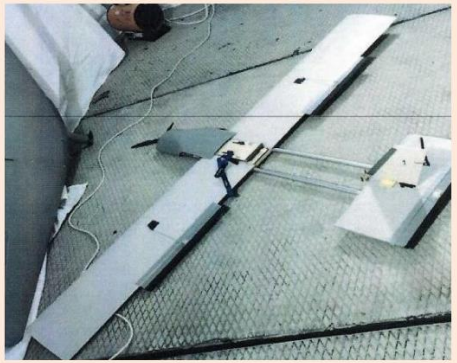


Parameter name	Meaning
Maximum takeoff weight, kg	1.8
Payload weight, kg	up to 0.5
Radius, km	up to 10
Flight time, min	up to 30
Speed, km/h	up to 85
Practical ceiling, m	up to 140
Operating temperature range, °C	from -20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	5800
Operating frequency range, MHz	1080 – 1320
Manufacturer	Russia

Machine Translated by Google

FPV drone "Molniya-1"

FPV drone "Molniya-1" is designed for high-precision defeat of enemy military equipment and manpower with targeting in manual mode by video signal



Parameter name	Meaning
Maximum takeoff weight, kg	5
Payload weight, kg	up to 3.5
Radius, km	up to 40
Flight time, min	up to 40
Speed, km/h	up to 120
Practical ceiling, m	1000
Operating temperature range, °C	from -10 to +40
Launch/Landing Method	pneumatic catapult
Battery capacity, mAh	4000
Operating frequency range, MHz	915 / 5800
Manufacturer	LLC "AtlantAero" Taganrog city

FPV drone "Molniya-1 AI"

The FPV drone "Molniya-1 AI" is designed for high-precision defeat of enemy military equipment and manpower with guidance to the target manually by video signal



Parameter name	Meaning
Maximum takeoff weight, kg	5
Payload weight, kg	up to 3.5
Radius, km	up to 40
Flight time, min	up to 40
Speed, km/h	up to 120
Practical ceiling, m	1500
Operating temperature range, °C	from -10 to +40
Launch/Landing Method	pneumatic catapult
Battery capacity, mAh	5000
Operating frequency range, MHz	915 / 5800
Manufacturer	LLC "AtlantAero" Taganrog city

Machine Translated by Google

Section 3

COPTER TYPE UAV WITH FPV FUNCTION

- UAV-CT “DJI Mavic 3 Classic”
- UAV-CT “DJI Mavic 3T”
- UAV-CT “DJI Mavic 2 Enterprise Advanced” • UAV-CT “AUTEL EVO”
- UAV-CT «DJI Matrice 300 RTK»
- UAV-CT “DJI Air 2S”
- UAV-CT “DJI Mini 2”
- UAV-CT “DJI PHANTOM 3”
- UAV-CT "DJI 6S" with ground power station "Liana-3"
- Software and hardware complex "Shturm" • UAV "Dji Mavic Pro Platinum" • UAV-KT "ZALA 421-22"
- UAV-CT "Sych"
- UAV “Grifon-41” • UAV-KT “Fox”
- UAV-CT "Wolf" • Complex "Sibir-1" • Complex "Quasi-mast"

Machine Translated by Google

UAV-CT "DJI Mavic 3 Classic"

The DJI Mavic 3 Classic UAV is designed for conducting
aerial reconnaissance with transmission of information via radio channel
Wi-Fi data transmission, as well as the destruction of manpower and military
enemy equipment using F-1, RKG-3 release devices,
RGD/RGN, 0.5-OFSP, VOG-17



Parameter name	Meaning
Maximum takeoff weight, kg	1.6
Payload weight, kg	up to 0.6
Radius, km	up to 15
Flight time, min	up to 46
Speed, km/h	up to 68
Practical ceiling, m	6000
Operating temperature range, °C	-10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	5000
Operating frequency range, MHz	2400 / 5100
Manufacturer	China

UAV-CT "DJI Mavic 3T"

The DJI Mavic 3T UAV is designed for air combat
reconnaissance with the transmission of information via a radio transmission cha
Wi-Fi data, as well as the destruction of manpower and military equipment
the enemy using the F-1, RKG-3, RGD/RGN release devices,
0.5-OFSP, VOG-17



Parameter name	Meaning
Maximum takeoff weight, kg	1.6
Payload weight, kg	up to 0.6
Radius, km	up to 15
Flight time, min	up to 45
Speed, km/h	up to 75.6
Practical ceiling, m	5000
Operating temperature range, °C	-10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	5000
Operating frequency range, MHz	2400 / 5100
Manufacturer	China

Machine Translated by Google

UAV-CT "DJI Mavic 2 Enterprise" Advanced»

The DJI Mavic 2 Enterprise Advanced UAV is designed for conducting aerial reconnaissance with the transmission of information via Wi-Fi radio data transmission channel, as well as damage to living beings enemy forces and military equipment using devices F-1, RKG-3, RGD/RGN, 0.5-OFSP, VOG-17 discharge



Parameter name	Meaning
Maximum takeoff weight, kg	1.4
Payload weight, kg	up to 0.5
Radius, km	up to 8
Flight time, min	up to 31
Speed, km/h	up to 72
Practical ceiling, m	6000
Operating temperature range, °C	-10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	3950
Operating frequency range, MHz	2400 / 5100
Manufacturer	China

UAV-CT "AUTEL EVO"

The UAV-CT "AUTEL EVO" is designed for air combat reconnaissance with transmission of information via Wi-Fi



Parameter name	Meaning
Maximum takeoff weight, kg	1.6
Payload weight, kg	up to 0.5
Radius, km	up to 8
Flight time, min	up to 31
Speed, km/h	up to 72
Practical ceiling, m	6000
Operating temperature range, °C	-10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	3500
Operating frequency range, MHz	2400 / 5100
Manufacturer	China

Machine Translated by Google

UAV-CT "DJI Matrice 300 RTK"

The DJI Matrice 300 RTK UAV is designed for conducting aerial reconnaissance with transmission of information via radio channel Wi-Fi data transmission, as well as the destruction of manpower and enemy military equipment using F-1 release devices, RKG-3, RGD/RGN, 0.5-OFSP, VOG-17



Parameter name	Meaning
Maximum takeoff weight, kg	9
Payload weight, kg	up to 3
Radius, km	up to 8
Flight time, min	up to 55
Speed, km/h	up to 83
Practical ceiling, m	7000
Operating temperature range, °C	-10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	5935
Operating frequency range, MHz	2400 / 5100
Manufacturer	China

UAV-CT "DJI Air 2S"

The DJI Air 2S UAV is designed for air combat reconnaissance with transmission of information via Wi-Fi



Parameter name	Meaning
Maximum takeoff weight, kg	0.6
Payload weight, kg	up to 0.15
Radius, km	up to 12
Flight time, min	up to 31
Speed, km/h	up to 68
Practical ceiling, m	5000
Operating temperature range, °C	-10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	3500
Operating frequency range, MHz	2400 / 5100
Manufacturer	China

Machine Translated by Google

UAV-CT "DJI Mini 2"

The DJI Mini 2 UAV is designed for air combat reconnaissance with the transmission of information via a radio transmission channel Wi-Fi data



Parameter name	Meaning
Maximum takeoff weight, kg	0.25
Payload weight, kg	up to 0.15
Radius, km	up to 10
Flight time, min	up to 30
Speed, km/h	up to 57
Practical ceiling, m	5000
Operating temperature range, °C	-10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	3950
Operating frequency range, MHz	2400 / 5100
Manufacturer	China

UAV-CT “DJI PHANTOM 3”

The DJI PHANTOM 3 UAV is designed for conducting aerial reconnaissance with transmission of information via radio chan Wi-Fi data transmission, as well as the destruction of manpower and enemy military equipment using release devices F-1, RKG-3, RGD/RGN, 0.5-OFSP, VOG-17



Parameter name	Meaning
Maximum takeoff weight, kg	3
Payload weight, kg	up to 1.2
Radius, km	up to 8
Flight time, min	up to 25
Speed, km/h	up to 57
Practical ceiling, m	5000
Operating temperature range, °C	-10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	3500
Operating frequency range, MHz	2400 / 5100
Manufacturer	China

Machine Translated by Google

UAV-KT "DJI 6S" with ground power station "Liana-3"

Hardware and software complex "Shturm"

UAV-KT "DJI 6S" with ground power station "Liana-3" designed for reconnaissance and surveillance using power and LAN cable for video and signal transmission management



Parameter name	Meaning
Maximum takeoff weight, kg	20
Payload weight, kg	up to 15
Radius, km	up to 20
Flight time, min	up to 72
Speed, km/h	up to 30
Practical ceiling, m	100
Operating temperature range, °C	-10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	-
Operating frequency range, MHz	n/a
Manufacturer	China

The hardware and software complex "Shturm" is designed for operating an FPV drone during combat operations without skills FPV control



Parameter name	Meaning
Maximum takeoff weight, kg	3.0
Payload weight, kg	up to 2.3
Radius, km	up to 7
Flight time, min	up to 15
Speed, km/h	up to 80
Practical ceiling, m	5000
Operating temperature range, °C	-10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	6000
Operating frequency range, MHz	900 / 5200; 5800
Manufacturer	China

Machine Translated by Google

UAV "Dji Mavic Pro Platinum"

The DJI Mavic Pro Platinum UAV is designed for conducting aerial reconnaissance with transmission of information via radio channel Wi-Fi data transmission.

The UAV flight is carried out in semi-automatic or automatic modes, including with accompaniment selected moving objects without operator intervention



Parameter name	Meaning
Maximum takeoff weight, kg	2,2
Payload weight, kg	up to 0.3
Radius, km	up to 7
Flight time, min	up to 30
Speed, km/h	up to 65
Practical ceiling, m	5000
Operating temperature range, °C	0 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	3850
Operating frequency range, MHz	900 / 5200; 5800
Manufacturer	China

UAV-CT "ZALA 421-22"

The UAV-KT "ZALA 421-22" is designed for reconnaissance and surveillance, transmission of video signals and control signals



Parameter name	Meaning
Maximum takeoff weight, kg	8
Payload weight, kg	up to 5
Radius, km	up to 5
Flight time, min	up to 35
Speed, km/h	up to 30
Practical ceiling, m	1000
Operating temperature range, °C	-10 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	5000
Operating frequency range, MHz	n/a
Manufacturer	Russia

Machine Translated by Google

UAV-KT "Sych"

The UAV-KT "Sych" is designed to perform tasks counter-battery warfare



Parameter name	Meaning
Maximum takeoff weight, kg	8
Payload weight, kg	up to 5
Radius, km	up to 35
Flight time, min	up to 30
Speed, km/h	up to 70
Practical ceiling, m	180
Operating temperature range, °C	from -30 to +50
Launch/Landing Method	vertical
Battery capacity, mAh	4500
Operating frequency range, MHz	n/a
Manufacturer	LLC "STC" Saint Petersburg

UAV "Griffin-41"

The Griffon-41 UAV is designed to increase the range radio communications (up to 25 km) at the tactical command level



Parameter name	Meaning
Maximum takeoff weight, kg	6
Payload weight, kg	up to 4
Radius, km	up to 5
Flight time, min	up to 540
Speed, km/h	up to 70
Practical ceiling, m	500
Operating temperature range, °C	from -30 to +50
Launch/Landing Method	vertical
Battery capacity, mAh	220V/10000 tethered power supply system
Operating frequency range, MHz	n/a
Manufacturer	LLC "Plaz", Saint Petersburg

Machine Translated by Google

UAV-CT "Fox"

The Fox UAV is designed for visual reconnaissance, detection and recognition of targets, target destruction at speeds up to 60 km/h as the main mode.

Means of destruction RGD-5, RG-42, F-1, RGN/RGO, RKG-3 - ammunition 8 pcs.



Parameter name	Meaning
Maximum takeoff weight, kg	8
Payload weight, kg	up to 3
Radius, km	up to 8
Flight time, min	up to 25
Speed, km/h	up to 60
Practical ceiling, m	4000
Operating temperature range, °C	-20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	6000
Operating frequency range, MHz	n/a
Manufacturer	OOO PromKompozit, Moscow

UAV-CT "Wolf"

The UAV-KT "Wolf" is designed to combat enemy UAVs Kevlar net



Parameter name	Meaning
Maximum takeoff weight, kg	6.5
Payload weight, kg	up to 1.6
Radius, km	up to 4
Flight time, min	up to 28
Speed, km/h	up to 80
Practical ceiling, m	1000
Operating temperature range, °C	-20 to +40
Launch/Landing Method	vertical
Battery capacity, mAh	5800
Operating frequency range, MHz	n/a
Manufacturer	OOO PromKompozit, Moscow

Machine Translated by Google

Complex "Siberia-1"

The Sibir-1 complex is designed to increase the range radio communication networks deployed at the tactical command level





Parameter name	Meaning
Maximum takeoff weight, kg	8.5
Payload weight, kg	up to 5
Radius, km	up to 2
Flight time, min	up to 40
Speed, km/h	up to 36
Practical ceiling, m	500
Operating temperature range, °C	from -30 to +50
Launch/Landing Method	vertical
Battery capacity, mAh	5800
Operating frequency range, MHz	n/a
Manufacturer	Gaskar Group LLC, Moscow

Complex "Quasi-mast"

The Quasi-Mast complex is designed to increase radio communication range (up to 15 km) at the tactical level management





Parameter name	Meaning
Maximum takeoff weight, kg	6.7
Payload weight, kg	up to 3
Radius, km	up to 3
Flight time, min	up to 40
Speed, km/h	up to 27
Practical ceiling, m	100
Operating temperature range, °C	from -30 to +50
Launch/Landing Method	vertical
Battery capacity, mAh	6200
Operating frequency range, MHz	n/a
Manufacturer	OOO "YuVS Avia" Moscow

Machine Translated by Google

Section 4

IMPACT LOADING OF FPV DRONES

• 0.5 kg high-explosive fragmentation warhead • 0.8 kg high-explosive fragmentation warhead • 1.7 kg high-explosive fragmentation warhead • 2.5 kg high-explosive fragmentation warhead • 1.4 kg fragmentation-beam warhead • 0.5 kg cumulative-incendiary warhead • 3 kg high-explosive fragmentation-beam warhead • 1.4 kg cumulative-fragmentation-incendiary warhead • 0.5 kg cumulative-incendiary warhead

• PG-7V warhead • KZ-6 cumulative charge • TBG-7V warhead • F-1 grenade • RGN grenade • RGO grenade • 82 mm mine

• Means of destruction "Drop" • Means of destruction "Puck"

Machine Translated by Google

Weapons of destruction for FPV drones

Warhead: high-explosive fragmentation, caliber 0.5 kg



Parameter name	Meaning
Designation	OFSP-0.5-B133
Placement type	resettable
Action type	high explosive fragmentation
Weight,	0.5
kg Dimensions, mm	Ø48 x 188
Fuse Type Status	B-133
	serial production

Warhead: high-explosive fragmentation, caliber 1.7 kg



Parameter name	Meaning
Designation	OFSP-1.7-A133 / OFSP-1.7-B133
Placement type	resettable
Action type	high explosive fragmentation
Weight,	1.7
kg Dimensions,	Ø55 x 352
mm Detonator	A-133 / B-133
type Status	serial production

Warhead: high-explosive fragmentation, caliber 0.8 kg



Parameter name	Meaning
Designation	OFSP-0.8-B133 / OFSP -0.8-A133
Accommodation type	resettable
Type of action	high explosive fragmentation
Weight,	0.8
kg Dimensions,	Ø48 x 231
mm Type of fuse	B-133 / A-133
Status	serial production

Warhead: high-explosive fragmentation, caliber 2.5 kg

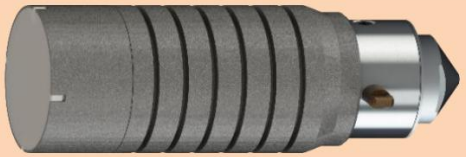


Parameter name	Meaning
Designation	OFSP-2.5-A133 / OFSP-2.5-B133
Placement type	resettable
Action type	high explosive fragmentation
Weight,	2.5
kg Dimensions,	Ø60 x 399
mm Detonator	A-133 / B-133
type Status	serial production

Machine Translated by Google

Weapons of destruction for FPV drones

The warhead is a fragmentation-beam, caliber 1.4 kg



Parameter name	Meaning
Designation	OPBC-1.4-A795
Placement type	insert
Action type	fragmentation beam
Weight, kg	1.4
Dimensions, mm	Ø60 x 147
Fuse Type Status	A-795
	development, testing

Warhead: high-explosive fragmentation beam, caliber 3 kg



Parameter name	Meaning
Designation	OFPBC-3SH-A795
Placement type	insert
Action type	high explosive fragmentation beam
Weight, kg	3.0
Dimensions, mm	Ø58 x 267
Detonator type Status	A-795
	development, testing

Warhead: cumulative incendiary, caliber 0.5 kg



Parameter name	Meaning
Designation	KZSP-0.5-A688
Placement type	resettable
Action type	cumulative incendiary
Weight, kg	0.5
Dimensions, mm	Ø48 x 214
Detonator type Status	A-688
	serial production

Warhead: cumulative-fragmentation-incendiary, caliber 1.4 kg



Parameter name	Meaning
Designation	KOZBCH-1.4-A795
Placement type	insert
Action type	Cumulative-fragmentation-incendiary
Weight, kg	1.4
Dimensions, mm	Ø70 x 160
Detonator type Status	A-795
	development, testing

Machine Translated by Google

Weapons of destruction for FPV drones

Warhead: cumulative incendiary, caliber 0.5 kg



Parameter name	Meaning
Designation	OPBC-1.4-A795
Placement type	insert
Action type	fragmentation beam
Weight, kg	1.4
Dimensions, mm	Ø60 x 147
Type of fuse Status	A-795
	development, testing

Cumulative charge KZ-6



Parameter name	Meaning
Designation	KZ-6
Placement type	insert
Action type	cumulative
Weight, kg	3
Dimensions, mm	Ø112×300
Type of fuse	Instantaneous Electric Detonator (EDP-R)
Status	serial production

Warhead PG-7V



Parameter name	Meaning
Designation	PG-7V
Accommodation type	insert
Type of action	cumulative
Weight, kg	2,2
Dimensions, mm	Ø85×270
Type of fuse Status	piezoelectric VP-7
	serial production

TBG-7V warhead



Parameter name	Meaning
Designation	TBG-7V
Accommodation type	insert
Type of action	thermobaric
Weight, kg	4.5
Dimensions, mm	Ø105×310
Type of fuse Status	piezoelectric VP-7
	serial production

Machine Translated by Google

Weapons of destruction for FPV drones

F-1 grenade



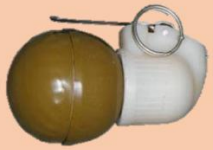
Parameter name	Meaning
Designation	
Placement type	insert
Action type	shrapnel
Weight, kg	0.6
Dimensions, mm	Ø60
Fuse Type Status	UDZ
	serial production

RGO Grenade



Parameter name	Meaning
Designation	(7G22)
Placement type	insert
Action type	shrapnel
Weight, kg	0.52
Dimensions, mm	Ø60
Type of fuse Status	UDZ
	serial production

RGN grenade



Parameter name	Meaning
Designation	(7G21)
Placement type	insert
Action type	shrapnel
Weight, kg	0.29
Dimensions, mm	Ø60
Detonator type Status	UDZ
	serial production

Mine 82 mm



Parameter name	Meaning
Designation	3VO18 shot with 3O-12 mine
Placement type	insert
Action type	shrapnel
Weight, kg	3.1
Dimensions, mm	Ø82×310
Detonator type Status	M-5 (M-6)
	serial production

Machine Translated by Google

Weapons of destruction for FPV drones

The "Drop" weapon

The "Drop" weapon is designed to destroy lightly armored vehicles when used with FPV UAVs



Parameter name	Meaning
Manufacturer	"RFNC VNIITF" Moscow
Accommodation type	suspension
Armor penetration, mm	40
Weight, kg	2,3
Caliber of warhead, mm	140
Warhead type	impact core
Status	development, testing

Means of destruction "Puck"

The "Puck" weapon is designed to destroy enemy manpower when used with FPV UAVs



Parameter name	Meaning
Manufacturer	"RFNC VNIITF" Moscow
Accommodation type	suspension
Damage radius, m	40
Weight, kg	1.9
Caliber of warhead, mm	96
Warhead type	high explosive fragmentation
Status	development, testing

Machine Translated by Google

Section 5

MEANS OF SUPPRESSION FPV DRONES

• Wearable complex “Pishchal-PRO”

• Wearable complex "Harpoon-2M2" • Wearable complex "Stillet" • Wearable complex "Blok"

• Wearable complex "Phantom"

• Portable anti-UAV complex "Prashcha-01" • Portable complex "Argument" • Portable complex "Patrol" • Portable complex "LPD-801"

• UAV jammer "Arkan-2" • Portable complex "SPD-2" • UAV jammer "Zhezl-2"

• Control channel suppression complex "SHUM-22TK"

• Portable complex "Taran-PRO"

• Strizh-3 UAV detection and protection system

• Mobile electronic warfare station "Argus-Antifury"

• Portable complex "Strizh"

• PARS-PR “Plombir” • Mobile complex “Patrol” • PARS-F “Filya”

• PARS-FB (Filya onboard)

• UAV suppressor "SERP-VS6"

• Portable complex "Sphere-10"

• UAV suppressor "Peroed"

• UAV suppressor "Groza "Bronya" • UAV control channel suppression device "Volnorez"

• UAV suppressor "Kapyushon K8"

• FPV drone jamming device "LGSh-689"

Machine Translated by Google

Counter UAV means

Wearable complex "Pishchal-PRO"



The Pishchal-PRO portable complex is designed to disrupt flight UAV missions by suppressing communication, control and navigation channels

Parameter name	Meaning
Suppressed navigation systems GPS, GLONASS, Galileo, BeiDou	
Suppressed frequencies, MHz	433; 915; 1500; 2400; 5800
Autonomy, min.	up to 60
Range, m Built-in battery	up to 2000
capacity, A/h Dimensions, cm	10
Weight, kg	200x240x930
	3.2

Wearable complex "Stillet"



The Stillet portable complex is designed to disrupt flight UAV missions by suppressing communication, control and navigation channels

Parameter name	Meaning
Suppressed navigation systems GPS, GLONASS, Galileo, BeiDou	
Suppressed frequencies, MHz	390 – 490; 850 – 1400; 2200 – 2400
Autonomy, min.	up to 40
Range, m Built-in battery	up to 1000
capacity, A/h Dimensions, cm	-
Weight, kg	-
	9

Portable complex "Harpoon-2M2"



The Harpoon-2M2 portable complex is designed to disrupt flight UAV missions by suppressing communication, control and navigation channels

Parameter name	Meaning
Suppressed navigation systems GPS, GLONASS, Galileo, BeiDou	
Suppressed frequencies, MHz	433; 868; 1575 / 1602; 2400; 5800
Autonomy, min.	up to 60
Range, m Built-in battery	-
capacity, A/h Dimensions, cm	-
Weight, kg	124x31.5x19
	9.5

Wearable complex "Block"



The portable complex "Blok" is designed to disrupt the flight mission UAVs by suppressing communication, control and navigation channels

Parameter name	Meaning
Suppressed navigation systems GPS, GLONASS, Galileo, BeiDou	
Suppressed frequencies, MHz	433; 915; 1500; 2400; 5800
Autonomy, min.	up to 60
Operating range, m Built-	from 1.5 to 2.3
in battery capacity, A/h Dimensions,	10
cm Weight, kg	101x30x14
	4.5

Machine Translated by Google

Counter UAV means

Wearable complex "Phantom"



The Phantom wearable system is designed to suppress channels communications, control and navigation of UAVs

Parameter name	Meaning
Suppressed navigation systems Suppressed	GPS, GLONASS
frequencies, MHz Autonomy,	868 – 930; 1570 – 1607; 2400
min. Operating range,	up to 60
m Built-in battery capacity,	up to 300
A/h Dimensions, cm Weight, kg	-
	-
	8

Wearable complex "Argument"



The wearable complex "Argument" is designed to suppress channels communications, control and navigation of UAVs

Parameter name	Meaning
Suppressed navigation systems	GPS, GLONASS
Suppressed frequencies, MHz	430 – 440; 860 – 930; 1560 – 1650; 2400 – 2500; 5180 – 5350
Autonomy, min. Range,	up to 60
m. Built-in battery capacity,	up to 2100
A/h. Dimensions, cm. Weight, kg.	-
	-
	6

Portable anti-UAV complex "Prashcha-01"



The "Prashcha-01" complex is designed to suppress communication channels, UAV control and navigation

Parameter name	Meaning
Suppressed navigation systems GPS, GLONASS, Galileo, BeiDou	
Suppressed frequencies, MHz	400 – 5800
Autonomy, min. Range,	60
m Suppression sector,	up to 2500
deg. Dimensions, cm Weight,	20
kg	260x900x140
	7

Wearable complex "Patrol"



The Patrol wearable system is designed to suppress channels communications, control and navigation of UAVs

Parameter name	Meaning
Suppressed navigation systems GPS, GLONASS, Galileo, BeiDou	
Suppressed frequencies, MHz	2400; 5800
Autonomy, min. Range,	up to 240
m. Suppression sector,	up to
deg. Dimensions, cm. Weight,	500 16
kg.	260x900x140
	5.5

Machine Translated by Google

Counter UAV means

Portable complex "LPD-801"



The LPD-801 portable complex is designed to suppress channels communications, control and navigation of UAVs

Parameter name	Meaning
Suppressed navigation systems	GPS, GLONASS
Suppressed communication frequencies, GHz	1.1 – 1.8, 2.4, 5.8
Autonomy, min. Range,	30
m. Built-in battery capacity, A/	1000
h. Weight, kg.	5000
	6

Portable complex "SPD-2"



The SPD-2 portable complex is designed to suppress channels communications, control and navigation of UAVs

Parameter name	Meaning
Suppressed navigation systems	GPS, GLONASS
Suppressed communication frequencies, GHz	0.430-0.440; 0.860-0.930; 1,560-1650; 2,400-2,500; 5,180-5,350
Autonomy, min. Range,	300
m. Weight, kg.	up to 1000
	6

UAV jammer "Arkan-2"



The Arkan-2 UAV jammer is designed to suppress channels communications, control and navigation of UAVs

Parameter name	Meaning
Suppressed navigation systems GPS, GLONASS, Galileo, BeiDou	
Suppressed communication frequencies, GHz	0.430-0.440; 0.860-0.930; 1,560-1650; 2,400-2,500; 5,180-5,350
Autonomy, min. Range,	30
m. Weight, kg.	up to 1
	-

UAV Blocker "Zhezl-2"



The UAV jammer "Zhezl-2" is designed to suppress channels communications, control and navigation of UAVs

Parameter name	Meaning
Suppressed navigation systems GPS, GLONASS, Galileo, BeiDou	
Suppressed communication frequencies, MHz	1100-1500; 1600-5800
Autonomy, min. Range,	60
m Suppression sector Weight,	up to 500
kg	-
	7

Machine Translated by Google

Counter UAV means

Control and navigation channel suppression system "SHUM-22TK"



The "SHUM-22TK" complex is designed to counteract canals communications between navigation systems and control channels for unmanned aerial vehicles aircraft

Parameter name	Meaning
Suppressed navigation systems	GPS, GLONASS
Suppressed communication frequencies, MHz	400 – 470; 860 – 930; 2400 – 2483.5; 5150 – 5945; 1176 – 1228; 1242 – 1279; 1575.32 – 1575.52; 1598 – 1606
Range, m Dimensions, cm	up to 1500
Weight, kg	62x55x33
	36

Strizh-3 UAV detection and protection system



The Strizh-3 UAV detection and protection system is designed for detection of unmanned aerial vehicles and blocking channels of their control and navigation

Parameter name	Meaning
Suppressed navigation systems	GPS, GLONASS
Suppressed frequencies, MHz	433, 868, 900, 1200, 2400, 5200, 5800
Operating range, m Built-in	up to 2500
battery capacity, A/h Dimensions,	-
cm Weight, kg	35 x 35 x 170
	15

Portable complex "Taran-PRO"



The Taran-PRO portable complex is designed to disrupt a flight UAV missions by suppressing communication, control and navigation channels

Parameter name	Meaning
Suppressed navigation systems GPS, GLONASS, Galileo, BeiDou	
Suppressed frequencies, MHz	340 – 460; 824 – 980; 1200 – 1500; 2200 – 2458; 4000 – 5250
Autonomy, min. Range,	-
m Suppression sector, deg.	up to 2600
Weight, kg	360
	-

Mobile electronic warfare station "Argus-Antifury"



Mobile electronic warfare station "Argus-Antifury" designed to prevent the flight of unmanned aerial vehicles in the area of action by setting up high-power directional interference

Parameter name	Meaning
Suppressed navigation systems GPS, GLONASS, Galileo, BeiDou	
Suppressed frequencies, MHz 400; 900; 1200; 1500; 2400; 5800	
Autonomy, min . Range,	-
m. Suppression sector, deg.	2000
Dimensions, cm. Weight, kg.	360
	150x120x120
	18

Machine Translated by Google

Counter UAV means

Portable complex "Strizh"



The portable complex "Strizh" is designed for automatic control signal detection, blocking of detected signals or navigation signals

Parameter name Suppressed	Meaning
navigation systems	GPS, GLONASS
Suppressed frequencies, MHz	433; 868; 900; 1575; 1600; 2400; 5800
Range, m Suppression sector,	up to 1000
deg Dimensions, cm Weight, kg	360
	35x35x170
	46

Mobile complex "Patrol"



The mobile complex "Patrol" is designed to conduct continuous and radio surveillance, UAV signals detection generation of counteraction signals to them in the protected area

Parameter name	Meaning
Suppressible navigation systems	GPS, GLONASS,) BeiDou, Galileo (L1, E1, G1)
Suppressed frequencies, MHz	400 – 6000, Wi-Fi, LTE
Range, m Suppression sector,	up to 25000
deg	360

PARS-PR "Ice cream"



PARS-PR "Plombir" is designed for stationary protection local objects and vehicles from UAVs and FPV drones

Parameter name Operating	Meaning
range, m Radiated power, W	up to 2000
	up to 80
Suppressed frequencies, MHz	430 – 470; 840 – 910; 925 – 960; 1160 – 1280; 1570 – 1610; 2400 – 2500; 2500 – 2600; 5715 – 5870
Suppression sector, deg Weight,	30 – 80
kg	20

PARS-F "Filya"



PARS-F "Filya" is designed to protect local objects and vehicles from FPV drones

Parameter name Emitted	Meaning
power, W Suppressed frequencies,	up to
MHz Autonomy, min. Range, m	20,820 – 960; 1160 – 1280 to
Suppression sector, deg.	240
Dimensions, cm Weight, kg	up to
	300 360
	300x200x200 5

Machine Translated by Google

Counter UAV means

PARS-FB (Filya onboard)



PARS-FB "Filya onboard" is designed to protect vehicles
funds from FPV drones

Parameter name Emitted	Meaning
power, W Suppressed frequencies,	up to
MHz Autonomy, min. Range, m	20,820 – 960; 1160 – 1280
Suppression sector, deg.	to 240
Dimensions, cm Weight, kg	up to
	300 360
	20x10x20 1

Portable complex "Sphere-10"





The portable complex "Sphere-10" is designed to disrupt the flight
UAV missions by suppressing communication, control and navigation channels

Parameter name	Meaning
Suppressed navigation systems GPS, GLONASS, Galileo, BeiDou	
Suppressed frequencies, MHz	from 400 to 6000; Wi-Fi; LTE
Autonomy, min. Range,	-
m Suppression sector, deg.	3000
Dimensions, cm Weight, kg	360
	101 (diameter), 20 (height)
	15

UAV Suppressor "SERP-VS6"



SERP-VS6 is designed to suppress UAV control channels
and malfunctions of the on-board receiver of global signals
navigation satellite systems at a distance of up to 5 km

Parameter name Operating	Meaning
range, m Radiated power, W	up to 5000
	up to 80
Suppressed frequencies, MHz	430-470; 840-910; 925-960; 1160-1280; 1570-1610; 2400-2500; 2500-2600; 5715-5870
Suppression sector, deg Weight,	360
kg	10

UAV Suppressor "Peroed"



The Peroed jammer is designed to combat unmanned aerial vehicles
aircraft

Parameter name Emitted	Meaning
power, W Suppressed frequencies,	up to
MHz Autonomy, min. Range, m	20,920; 1200; 1500; 2400; 5800
Suppression sector, deg.	up to 40
Dimensions, cm Weight, kg	up to
	300 75
	n/a
	7

Machine Translated by Google

Counter UAV means

UAV Suppressor "Groza "Bronya"



The UAV suppressor "Groza "BRONYA" is designed for installation on cars and armored vehicles to protect against FPV drones in the sector 360 degrees. Consists of 8 jamming modules and a power supply

Parameter name	Meaning
Radiated power, W	up to 20
Suppressed communication frequencies, MHz	400 – 500; 630 – 780; 770 – 900; 890 – 1020; 1150 – 1300; 2400 – 2500; 5100 – 5300; 5700 – 5900
Autonomy, min.	-
Range, m. Suppression	from 50 m
sector Dimensions,	360 / 90
cm. Weight, kg.	350x350x240
	16

UAV Suppressor "Kapyushon K8"



The UAV suppressor "Kapyushon K8" is designed to protect from attack drones, FPV drones and drones with resets

Parameter name	Meaning
Radiated power, W	up to
Suppressed communication frequencies, MHz	20,400 – 500; 630 – 780; 770 – 900; 890 – 1020; 1150 – 1300; 2400 – 2500; 5100 – 5300; 5700 – 5900
Autonomy, min.	240
Range, m. Suppression	up to
sector, deg. Dimensions,	500 16
cm. Weight, kg.	n/a
	5.5

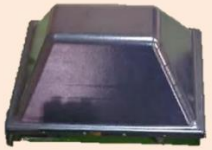
Device for suppressing UAV control channels "Wavecutter"



FPV Drone Control Channel Jammer "Wavebreaker" is designed to protect weapons, military and special equipment from being hit by FPV drones

Parameter name Emitted	Meaning
power, W Suppressed	up to
frequencies, MHz Autonomy,	20,863 – 886; 902 – 928
min. Operating range,	-
m Suppression sector	up to
Dimensions, cm	300 circular
Weight, kg	300x200
	8

FPV Drone Jammer "LGSh-689"



Device for jamming FPV drone control channels "LGSh-689" is designed to protect weapons, military and special FPV Drone Defense Techniques

Parameter name Emitted	Meaning
power, W Suppressed	up to
frequencies, MHz Autonomy,	20,863 – 886; 902 – 928
min. Operating range,	-
m Suppression sector	up to
Dimensions, cm	300 circular
Weight, kg	300x300x200
	10

Machine Translated by Google

Alphabetical index

A

AUTEL EVO..... 38

D

DJI 6S..... 41

DJI Air 2S..... 39

DJI Matrice 300 RTK..... 39

DJI Mavic 2 Enterprise Advanced.....38

DJI Mavic 3 Classic..... 37

DJI Mavic 3T..... 37

Dji Mavic Pro Platinum..... 42

DJI Mini 2..... 40

DJI PHANTOM 3..... 40

F

FPV Drone 5 inch..... 7

FPV Drone 7 inches..... 7

FPV Drone 9 inch..... ...

FPV Drone 10 inches..... 26

X

XL-10..... 11

Z

ZALA 421-22.....42

A

Alyosha..... 22

Antonov..... 25

Argument..... 54 Argus-

Antifury..... 56 Arkan-2..

..... 55

ASK X-2..... 13

B

Block..... 53

Warhead cumulative incendiary caliber 0.5 kg..... 48

Warhead cumulative incendiary caliber 0.5 kg..... Warhead fragmentation high- 49

explosive caliber 0.5 kg..... 47 Warhead fragmentation high-explosive caliber

0.8 kg..... 47

Warhead cumulative-fragmentation-incendiary, caliber 1.4 kg..... 48

Warhead fragmentation-beam caliber 1.4 kg..... 48

Warhead high-explosive fragmentation caliber 1.7 kg..... 47

High-explosive fragmentation warhead, caliber 2.5 kg..... 47 High-

explosive fragmentation warhead, caliber 3 kg..... 48

Warhead PG-7V 49

Warhead TBG-7V..... 49

Beam-1..... 9

Boomerang..... 8

Boomerang-10..... 29

Boomerang-E..... 9

Boomerang-ERA..... 22

V

Veles..... 14

Vespa..... 16

Wind..... 25

Wolf..... 44

Breakwater..... 59

G

Harpoon-2M2... 53

Hydrangea-7..... 10

Hydrangea-10..... 10

Garnet-3..... 23

RGN grenade..... 50

RGO grenade..... 50

F-1 grenade..... 50

Thunderstorm 59

Griffon-41..... ..... 43 **D**

D-11-1..... 15

Darwin X9..... 8

Watch..... 31

AND

Rod-2..... 55

Zhmil-17..... 16

Machine Translated by Google

Z

Charge KZ-6..... .....
49 **I**

Product 1-390..... 20

TO

Drop… 51
Hood K8..... 59

Katyusha..... 19
Quasi-mast..... 45

Mosquito..... 27
Court..... 6
Course-800TB..... 15
Courier..... 21 **L**

LGSh-689..... 59
Fox..... 44
LPD-801..... 55
Lun-7 (10)..... 24
Buttercup-Kamikaze..... 29

M

Microbe..... 30
Lightning-1..... 35
Lightning-1 II..... 35
Monolith-FPV-7..... 23

ABOUT

Gadfly..... 13
Wasp..... 24

P

Patrol..... 54
PVC-1..... 12
Pered..... 58
Piranha-7..... 28
Piranha-10..... ..... 28 Pishchal-
PRO..... 53

Ice cream..... 57
Area-K..... 11
Sling-01..... 54
Hello- 82..... 34 **R** RTD-

K..... 6
Hazel grouse..... 21

WITH

Starling-7..... 17
Starling-10..... 17
Starling PRO..... 18 Starling-
Z..... 18
Horsefly..... 20

T

Type-450..... 30
Ice cream..... 57
Area-K..... 11
Sling-01..... 54
Hello- 82..... 34

M

Mine 82 mm..... 50

WITH

SICKLE-VS6..... 58
Siberia-1..... 45
SPD-2..... 55
Stillet..... 53
Swift..... 57
Swift-3..... 56 Sphere-
10..... 58
Owl..... 43

T

Taran-PRO..... 56

Machine Translated by Google

Alphabetical index

U

Ultimatum..... 27

Ghoul..... 31 **F**

Phantom..... 54

Filya..... 57

Fillet on board..... 58

X

Chimera..... 12

Predator-2PG..... .....
19 **H**

Blueberry-1.....

33 Blueberry-2.....
33 **ÿ**

Washer..... 51

Bumblebee..... 14

Assault..... 41

SHUM-22TK..... 56

Machine Translated by Google

The handbook was developed on the basis of final reports from troop groups on the use of FPV drones and countermeasures in special military operations by the Armed Forces of the Russian Federation.

Please send comments and suggestions regarding this reference book to the department generalization of the combat experience of the Joint Group of Troops (Forces).

Telephone for interaction 17777-22-81. Address
of ZSSPD: pu_u_1005@x.mil.zs, oobd@akacziya.mil.zs.