

ELECTRONIC WARFARE SYSTEMS

SERVAL



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The company "UM-Systems" specializes in the development and production of modern electronic warfare (EW) and electronic intelligence (ELINT/ESM) systems. The main distinction of the UM-Systems team is its ability to respond rapidly to changes in the nature of combat operations and to implement new technologies that meet current operational requirements. This is made possible by a team of highly qualified specialists and continuous integration and cooperation with combat units.

The company's R&D department focuses not simply on combining antennas with jamming generators, but on designing and manufacturing specialized antennas, efficient device architectures, and electronic components that keep pace with constant changes in control protocols and enemy electronic warfare methods.

We carry out the full production cycle, from design and manufacturing to testing of finished products. The company is open to cooperation with international partners both at our own facilities and at manufacturing enterprises located in partner countries.

Our primary objective is countering hostile UAVs, particularly those using DJI control protocols and FPV systems, as well as timely detection of both physical UAV objects and their control signals/protocols.

Today, our products are used by many military units both for individual protection against FPV drones and enemy payload-drop UAVs (vehicles and dismounted personnel), and at the tactical level to disrupt the missions of strike and reconnaissance UAVs. This includes FPV-kamikaze drone protection systems that create a reliable protective radio-frequency dome with a radius of 100 to 300 meters, as well as directional systems capable of blocking communication between the operator's controller and the UAV at distances of up to 3,500 meters.

Currently, our development team is finalizing a prototype passive ELINT/ESM system designed for high-precision geolocation of signal sources, focused on identifying modulation types used in control systems.

Name	Opposition	MHz	Description	Note
Serval Pro	Mavic3T, FPV	300-600, 700-1020, 2100-2700, 2,4/5,8	Dome protection 360°	Maximum protection
Serval J	Mavic3T	2,4/5,8	Directional horn antenna, range from 3500 meters	Top-selling
Serval M	Mavic3T	2,4/5,8	Protection: individual, position, auto from resets; dome 150 meters away. Directional antenna action from 500 meters away	Convenient portable device
Serval 300-600 MIX	FPV	300-600	Equally effective against horizontal and vertical polarization on a drone. Effective from 100m	Maximum protection
Serval 300-600 V	FPV	300-600	Vertically polarized antennas. Works from 70m	Proven herself on the front lines.
Serval 700-1020 Mix	FPV	700- 1020	Equally effective against horizontal and vertical polarization on a drone. Effective from 100m.	Maximum protection
Serval 700-1020 V	FPV	700-1020	Vertically polarized antennas. Works from 70m.	Proven herself on the front lines
Serval 700-1020 R3	FPV	700-1020	Turnstile type antennas. Circular polarization. Effective from 70 m.	Jammers of our own production
Serval 700-1020 VK	FPV	700-1020	Ultra-durable body	Withstands immersion in water
Serval 2100-2700	FPV	2100-2700	Powerful jammers and quads in antiphase. Works from 70 m.	

Serval Pro

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Frequency range, MHz	Power	Power consumption
300-600	100 W	300 W
700- 1020	100 W	300 W
2100-2300	100 W	300 W
2300-2500	100 W	300 W
2500-2700	100 W	300 W
2400-2500	50 W	150 W
5700-5850	50 W	150 W



Device characteristics	
Dust and water protection protocol	IP-66
Power range, V	28
Number of antennas	11
Power consumption of the product, no more than	3 kW
Overall dimensions (W×H×D),mm:	1000×450×1400
Weight, no more than	50 kg
Continuous operation time within the battery capacity, but not less	1 hr
EW indicator (passive)	+
Standing wave ratio of the product's antennas within the operating frequency ranges	1,0 - 1,6
Angle of interference	360°
Cooling type	Passive
The effective working distance depends on the operator's remoteness and weather conditions.	870-500m

Serval J

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Top-selling



From 3000 meters - Mavic's suppression range

Frequency range, MHz	Power	Power consumption
2400 - 2500	100 W	300 W
5700-5850	50 W	150 W
5700-5850	50 W	150 W

Device characteristics	
Dust and water protection protocol	IP-55
Power range, V	220
Number of antennas	2
Power consumption of the product, no more than	1 kW
Overall dimensions (W×H×D),mm:	500×300×640
Uptime	unlimited
EW indicator (passive)	-
Angle of interference	25°
Surge protector	+
Cooling type	Active
The effective working distance depends on the operator's remoteness and weather conditions.	>3500m
Connector	Type F

Serval M

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Directional antenna action from 500m meters

Dome protection from 150m

Weight 6,3 kg

Remotew control



External power supply option



Frequency range, MHz	Power	Power consumption
2400-2500	50W	150W
5722- 5850	50W	150W

Device characteristics	
Dust and water protection protocol	IP-65
Power range, V	18 -28
Number of antennas	2
Power consumption of the product, no more than	300 W
Overall dimensions (W×H×D),mm:	550x260x190
Uptime	60 min
Built-in battery, not less than	45 min
Option of power supply from an external battery	18-28 V
EW indicator (passive)	+
Angle of interference	120°
Surge protector	+
Cooling type	Passive
The versatility of the power connector, for example, for connecting a battery from an FPV	XT-60
Possibility of delivery with a battery for 3 hours of autonomous operation	+
The effective working distance depends on the operator's remoteness and weather conditions. <ul style="list-style-type: none">• Dome• Directional	>150 m >500 m

Serval 300-600 MIX

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Maximum protection

Effective for horizontal and vertical polarization

Jammers 100W

Two antennas with circular polarization in antiphase, one with vertical. Passive cooling.



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Frequency range, MHz	Power	Power consumption
300-600	100 W	300 W
300-600	100 W	300 W
300-600	100 W	300 W

Device characteristics	
Dust and water protection protocol	IP-67
Power range, V	12 - 28
Number of antennas	3
Power consumption of the product, no more than	900 W
Overall dimensions (W×H×D),mm:	310x430x310
Uptime	120 min
EW indicator (passive)	+
Angle of interference	360°
Surge protector	+
Cooling type	Passive
The versatility of the power connector, for example, for connecting a battery from an FPV	TX-60
Possibility of delivery with a battery for 3 hours of autonomous operation	+
The effective working distance depends on the operator's remoteness and weather conditions.	>100m

Serval 300-600 V

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Vertical polarization

Low consumption

EW indicator



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Frequency range, MHz	Power	Power consumption
300-400	50 W	150 W
400-500	50 W	150 W
500-600	50 W	150 W

Device characteristics	
Dust and water protection protocol	IP-68 or IP-66
Power range, V	12 - 28
Number of antennas	3
Power consumption of the product, no more than	450 W
Overall dimensions (W×H×D),mm:	310x430x310
Uptime	unlimited
EW indicator (passive)	+
Angle of interference	360
Surge protector	+
Cooling type	Active
The versatility of the power connector, for example, for connecting a battery from an FPV	TX-60
Possibility of delivery with a battery for 3 hours of autonomous operation	+
The effective working distance depends on the operator's remoteness and weather conditions.	>70m

Serval 700-1020 MIX

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Maximum protection

Effective for horizontal and vertical polarization

Jammers 100W

Two antennas with circular polarization in antiphase, one with vertical. Passive cooling.



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Frequency range, MHz	Power	Power consumption
700-1020	100 W	300 W
700-1020	100 W	300 W
700-1020	100 W	300 W

Device characteristics	
Dust and water protection protocol	IP-67
Power range, V	12 - 28
Number of antennas	3
Power consumption of the product, no more than	900 W
Overall dimensions (W×H×D),mm:	310x430x310
Uptime	До 120 min
EW indicator (passive)	+
Angle of interference	360
Surge protector	+
Cooling type	Passive
The versatility of the power connector, for example, for connecting a battery from an FPV	TX-60
Possibility of delivery with a battery for 3 hours of autonomous operation	+
The effective working distance depends on the operator's remoteness and weather conditions.	>100m

Serval 700-1020 V

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Active cooling

Effective for horizontal and vertical polarization

Low consumption

Unlimited uptime



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Frequency range, MHz	Power	Power consumption
700-820 MHz	50W	150 W
820-940 MHz	50W	150 W
940-1050 MHz	50W	150 W

Device characteristics	
Dust and water protection protocol	IP-67
Power range, V	12 - 28
Number of antennas	3
Power consumption of the product, no more than	450 W
Overall dimensions (W×H×D),mm:	450x470x280
Uptime	unlimited
EW indicator (passive))	+
Angle of interference	360
Surge protector	+
Cooling type	Active
The versatility of the power connector, for example, for connecting a battery from an FPV	TX-60
Possibility of delivery with a battery for 3 hours of autonomous operation	+
The effective working distance depends on the operator's remoteness and weather conditions.	>100m

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Ultra-durable body

In-house jammers with very dense signal

Antenna type - Turnstile



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Frequency range, MHz	Power	Power consumption
700-820 MHz	60W	150 W
820-940 MHz	60W	150 W
940-1050 MHz	60W	150 W

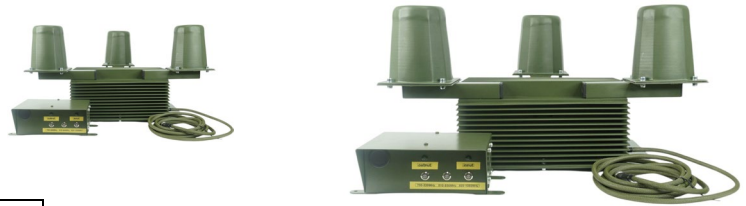
Device characteristics	
Dust and water protection protocol	IP-67
Power range, V	12 - 28
Number of antennas	3
Power consumption of the product, no more than	450 W
Overall dimensions (W×H×D),mm:	500x400x510
Uptime	необмежений
EW indicator (passive)	+
Angle of interference	360°
Surge protector	+
Cooling type	Passive
The versatility of the power connector, for example, for connecting a battery from an FPV	TX-60
Possibility of delivery with a battery for 3 hours of autonomous operation	+
The effective working distance depends on the operator's remoteness and weather conditions.	>70m

Serval 700-1020 VK

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Ultra-durable body

Withstands immersion in water



Frequency range, MHz	Power	Power consumption
700-820 MHz	50 W	150 W
820-940 MHz	50 W	150 W
940-1050 MHz	50 W	150 W



Device characteristics	
Dust and water protection protocol	IP-68
Power range, V	12 - 28
Number of antennas	3
Power consumption of the product, no more than	450 W
Overall dimensions (W×H×D),mm:	500x400x510
Uptime	unlimited
EW indicator (passive)	+
Angle of interference	360°
Surge protector	+
Cooling type	Passive
The versatility of the power connector, for example, for connecting a battery from an FPV	TX-60
Possibility of delivery with a battery for 3 hours of autonomous operation	+
The effective working distance depends on the operator's remoteness and weather conditions.	>70m

Serval 2100-2700

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Powerfull jammers

Circular polarization

Dome 360°

Frequency range, MHz	Power	Power consumption
2100-2300	100 W	300 W
2100-2500	100 W	300 W
2500-2700	100 W	300 W



The logo for Serval, featuring the word 'SERVAL' in a bold, green, sans-serif font. Below the text is a stylized green emblem consisting of a circle with a cross-like shape inside, flanked by horizontal lines.

Device characteristics	
Dust and water protection protocol	IP-68
Power range, V	12 - 28
Number of antennas	4
Power consumption of the product, no more than	1200 W
Overall dimensions (W×H×D),mm:	
Uptime	unlimited
EW indicator (passive)	+
Angle of interference	360°
Surge protector	+
Cooling type	Passive
The versatility of the power connector, for example, for connecting a battery from an FPV	TX-60
Possibility of delivery with a battery for 3 hours of autonomous operation	+
The effective working distance depends on the operator's remoteness and weather conditions.	>70m

SERVAL ALERT

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Detects and intercepts analog video signals of FPV drones within the corresponding frequency bands.

Minimum detection range: from 500 to 1000 meters (depending on signal strength).

Scanning across three frequency bands is performed simultaneously and independently.

Endurance: 4–6 hours.

Frequency bands, MHz
1000–2250
2300–3950
4900–6200

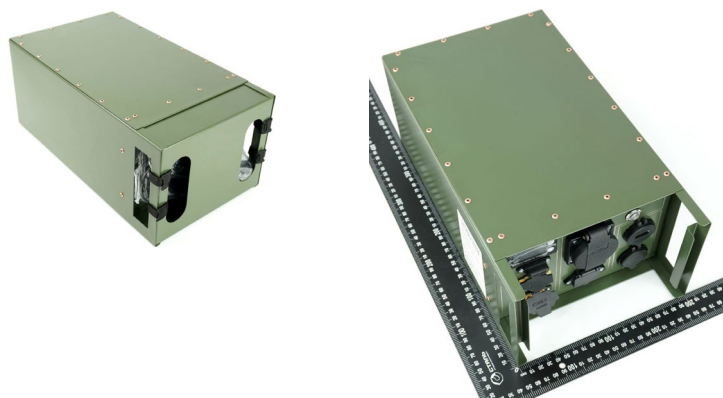


BATTERY“REMORA”

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REMORA 560/24

Universal charging
station and power supply



REMORA 560/24:
Pure sine
Battery type: LiFePO4
Capacity: 560 W
Power: 220B-600V
DC outputs: 24B (22-29,2 B)
XT 60 – 1,
XT 90 – 1,
USB Type - A – 2
USB Type – C – 2
AC output - 220V 50Hz
Charging from the mains 220V
Chrging time – 1,5 hr
Number of cycles – 2500
Overall dimensions (W×H×D):
370x200x155mm
Weight 6,5 kg

REMORA 01300

Charging station capacity - 1,3 kW/h
Charging station capacity - 350000
mAh
Charging time - 8 hr
External power source, 220 V
Power – 18-25 V
Connector - XT60 (30A) - 2
Voltmeter
Output power (total)- 1000W/h
Weight – 8,0 kg
Overall dimensions (W×H×D):
520x150x120mm

REMORA 01300



The optimal choice for EW
power supply

