Frontline

Robots that will change the course of warfare

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UAV «Linza»

attack/logistics 10" inches

Application: Bomber with reconnaissance capabilities

- Gyro-stabilized daytime/thermal camera
- 10-inch frame
- Payload 2 kg
- EW-resistant control channel with dual-range FHSS
- Encrypted video with rapid switch of video transmission channels
- Up to 100 m distance from antenna station to operator without quality loss

VIDEO

Specifications:

Size	10 inches
Tactical radius	10 km

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Flight time	- 35 min (depending on weather conditions) without payload - 25 minutes with payload
Payload	2 kg
Flight speed	12-15 m/s
Video transmission	AES 128 encryption, maximum range between operating channels - 1000 MHz
Switching video channels	Up to 9 working channels that can be switched during flight (switching delay is 100 ms, visually unnoticeable)
Video quality	thermal imaging: 640x512, 30 FPS daytime: HD 1080x720, 30 FPS
Control channel	2 control channels with FHSS operating simultaneously. The total channel width is 225 MHz. AES 128 encryption

UAV "Linza", basic configuration:

Quadrocopter 10/8" inches	x 1
Transportation box	x 1
Gyro-stabilized thermal video camera or gyro-stabilized daytime camera with x6 digital zoom	x 1
Universal drop system with adjustable bomb girth	x 1
Optional - adjustable bomb drop system for 2 bombs	x 1
Battery 6s 15 A (6s 20 A)	x 3
User's manual	x 1

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Ground station, specifications:

Weight	5 kg
Antennas	3 directional antennas
Protection rating	IP65
Video transmission	AES 128 encryption, maximum range between operating channels - 1000 MHz
Switching video channels	Up to 9 working channels that can be switched during flight (switching delay is 100 ms, visually unnoticeable)
Video quality	thermal imaging: 640x512, 30 FPS daytime: HD 1080x720, 30 FPS
Control channel	2 control channels with FHSS operating simultaneously. The total channel width is 225 MHz. AES 128 encryption
Distance from antenna to operator	50-100 m (2 switching reels can be connected in a row without signal quality loss)
Video transmission to operator	Ethernet cable (multicore braided, designed for field operation)
Control program	QGroundControl Displays the main telemetry indicators of the UAV and video images
Features	It is possible to install 2 or more antenna stations in different locations and switch between them in case of damage

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The ground station, basic configuration:

Antenna station	x 1
Tripod 2 m (or a match 8-10 m)	x 1
Reel with cable 50 m	x 1
Transportation box	x 1
Tablet (Android) 11"	x 1
Remote control Radiomaster TX16s	x 1
Remote piloting station (a case for remote control, tablet, and antenna station equipment)	x 1
Components and tools for field repair	x 1 set
Charging station	x 1
RPS power supply 220 V	x 1
User's manual	x 1