



Aerial Remote Sensing System **IRKUT-10**



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While performing round-the-clock monitoring of the Earth's surface in adverse weather conditions, the IRKUT-10 system implements gathering of the TV/IR and photo imagery in the real-time mode, processing of imagery obtained from payload sensors, and determination of coordinates of ground targets designated by operator. This system comprises two unmanned aerial vehicles (UAVs), a ground control station, maintenance and support equipment.

While loitering for 2.5 hours, the UAV transmits the data acquired from the payload sensors to the ground control station at up to 70-km distance, in the real-time mode.

Time to prepare the UAV for the flight, including preflight tests, downloading of flight task and preparation for start, does not exceed 15 minutes.

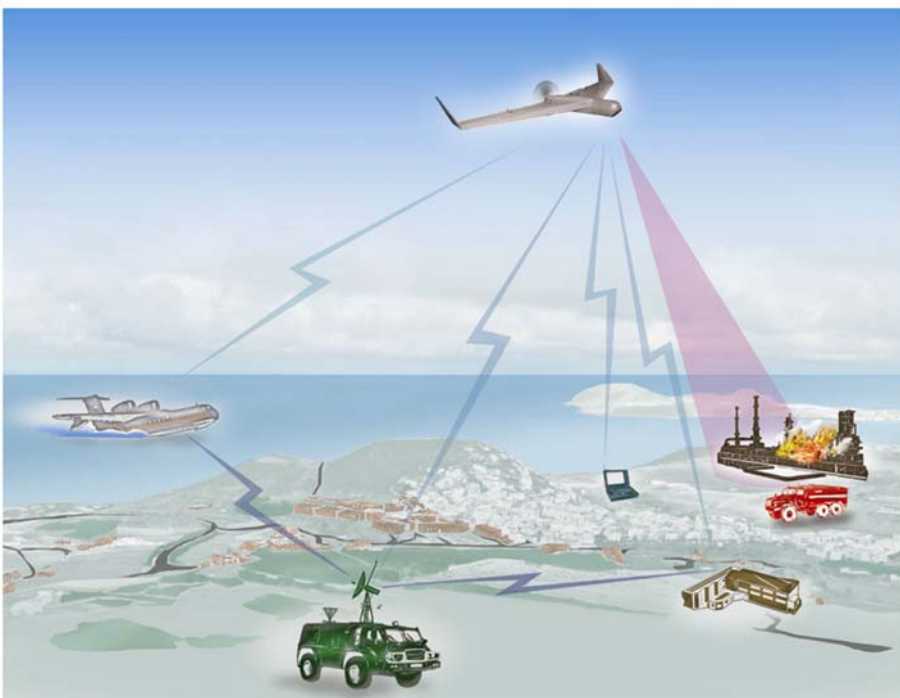
The UAV is hand-launched with the use of the catapult, and performs "belly" landing by means of the parachute to any unpaved/unprepared pad or road section.

Built with the use of composite materials, the UAV features high durability and a relatively low weight, and can be rapidly assembled and disassembled without any special tooling.

Basic characteristics

Wing span, m	2.0
Length, m	0.7
Height, m	0.2
Flight speed, km/h	80 ... 110
Max. take-off weight, kg	8.5
Max. payload weight, kg	1.5
Operational altitude, m	100 ... 500
Max. flight altitude above sea level, m	3,000
Operational radius (limited by radio link), km	up to 70
Max. flight endurance, h	up to 2.5
Mean-square error of flight along designated route, m	not more than 15
Operational temperature range, °C	-40 ... +50
Relative humidity at t=25 °C, %	up to 98
Max. wind speed at take-off, m/s	15
Landing site, m	50 x 50
Flight and support personnel	1 ... 2

The IRKUT-10 system features employment flexibility due to the ability to carry various payloads depending on the mission to accomplish, as well as low operational and life-time costs. Moreover, for its operation the system does not require airfield support facilities.



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