



Aerial Remote Sensing System **IRKUT-3**



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While performing round-the-clock monitoring of the Earth's surface in adverse weather conditions, the IRKUT-3 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) and a ground control station.

While loitering for 1.25 hour, the UAV transmits the data acquired from the payload sensors to the ground control station at up to 15-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.

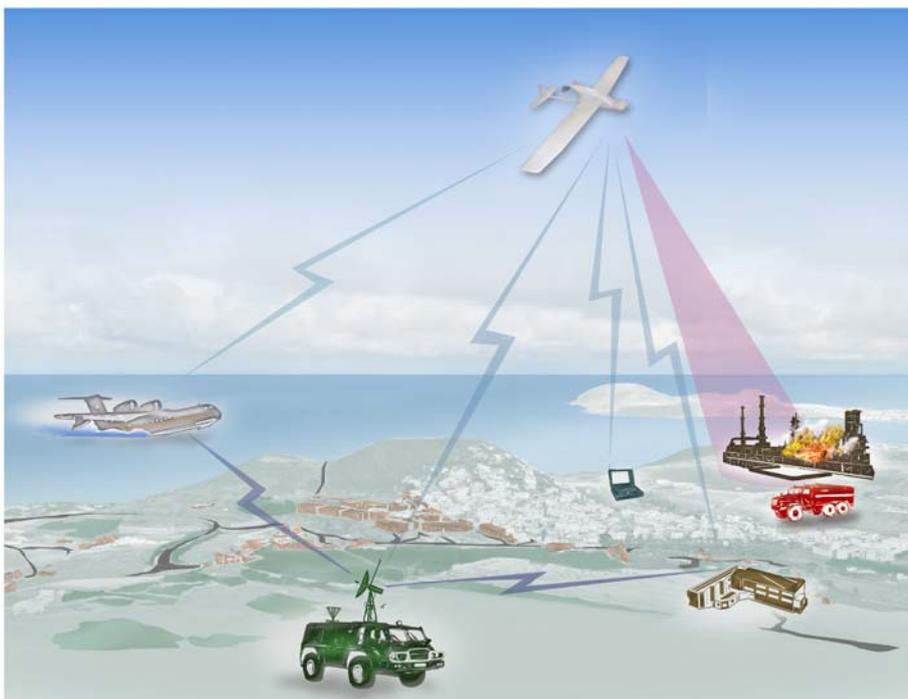
The hand-launched UAV performs parachute landing to any unpaved/unprepared pad.

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	0.9
Height, m	0.3
Flight speed, km/h	70 ... 90
Max. take-off weight, kg	3
Max. payload weight, kg	0.5
Operational altitude, m	100 ... 500
Max. flight altitude above sea level, m	3,000
Operational radius (limited by radio link), km	15
Max. flight endurance, h	1.25
Mean-square error of flight along designated route, m	not more than 15
Operational temperature range, °C	-30 ... +50
Relative humidity at t=25 °C, %	up to 98
Max. wind speed at take-off, m/s	10
Landing site, m	20 x 20
Flight and support personnel	1

The IRKUT-3 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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