

D-12



DESCRIPTION

D-12 plane-type unmanned aircraft system. The D-12 unmanned aircraft system is designed using the “flying wing” aerodynamic scheme. This model is designed for aerial photography and remote sensing of the earth surface. The maximum weight of the aircraft reaches 12 kg, the payload capacity is 2 kg. Unmanned aircraft system D-12 develops a speed of up to 126 km/h, the power reserve is enough for 250 km. Unmanned aircraft system can be equipped with an aerial camera, a thermal imager, a multispectral camera, geodetic equipment and a laser scanner.

ADVANTAGES

The D-12 unmanned aircraft system can stay in the air for up to 2.5 hours and cover

a distance of up to 250 km, which makes the drone effective for conducting aerial surveys. The unmanned aircraft system is characterized by simplicity and efficiency of assembly and preparation for flight. The model is launched from an elastic shock absorber and lands by a parachute that essentially increases the possibilities of its use in places where there are no prepared airfield sites.

APPLICATION

- Aerial photography;
- Photo and video monitoring;
- Thermal imaging and multispectral photography;
- Aerial laser scanning.

Parameters	Value
Maximum take-off weight	Up to 12 kg
Length	900 mm
Wingspan	3000 mm
Power unit	Electrical motor
Payload weight	Up to 2 kg
Maximum flight duration	Up to 2.5 hours
Maximum flight range	250 km
Maximum flight speed	126 km/h
Cruising flight speed	80-90 km/h
Maximum flight altitude	4000 m
Take-off mode	Elastic absorbing launcher/ with launcher
Landing mode	By parachute
Wind speed limits, no more	15 m/s
Ambient temperature range	-30 C to +40 C

