

UNMANNED AERIAL COMPLEX SURVEYER-H WITH VERTICAL TAKEOFF/LANDING UAV UVH-120E

UVH-120E unmanned aircraft is an industrial helicopter with a four-stroke gasoline engine equipped with an injector, a starter and a generator.

Take-off, en-route flight and landing are carried out automatically.

Optional semi-automatic control.

Emergency operation modes.

Diagnostics, flight planning and remote control can be performed via a wireless network connection.

Proprietary Autopilot.

UVH-120E is specially designed to work in a tropical climate in conditions of high air temperatures. The new UAV has extended temperature range, and increased engine cooling.



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APPLICATION

- Video surveillance and monitoring
 - Payload delivery and autonomous transporting
 - Jamming
 - Radio link range extension and retransmission
 - Target pointing and designation
 - R&D flying laboratory (meteorology, hydrology, etc.)
- UVH-120E is used for monitoring the Earth's surface.

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CHARACTERISTICS

| Parameters | Value |
|---|-----------------|
| Cruising speed | 60 km/h |
| Maximum speed | 100 km/h |
| Length | 2700 mm |
| Main rotor diameter | 2600 mm |
| Height | 860 mm |
| Wheelbase | 850 mm |
| Engine type | 4-stroke engine |
| Engine capacity | 6 kW |
| Max. Payload | 5 kg |
| Max. takeoff weight | 34.5 kg |
| Empty weight | 25.6 kg |
| Max. climbing capacity | 3 m/s |
| Max. wind speed during takeoff or landing | 14 m/s (27kts) |
| Range of operation | 300 km |
| Practical ceiling | 2500 m |
| Flight time (max.) | 5 h |
| Parachute | ballistic |
| TBI (inspections, maintenance) | 260 h |

OPERATION

| Parameters | Value |
|----------------------|---|
| Temperature range | -35...+50 |
| Basing | Takeoff and landing place 10X10m |
| Control modes | Fully automatic / Semi-automatic / Emergency |
| Takeoff and landing | Fully automatic |
| Emergency landing | Parachute |
| Ground landing means | Not required |
| Engine start | Electric starter |
| Storage | 1. Heli in box -77kg (Packing dimensions - 1300x650x800) 2. Portable GCS (PGCS)-24 kg 3. Payload box - GSG-185 - 8,5kg (350x350x350) |