HIGH EYE

HEF 32 Unmanned Helicopter System

INFORMATION AND SPECIFICATION

Following is a list of specifications and performance of the HEF 32. All mentioned values concern the latest HEF 32 type and are subject to changes, following the acquisition of more accurate data and the improvement of the UAV system.

Dimensions	1661 x 539 x 600 mm
Environmental resistance	IP 66 (water/dust resistant) -10°C to +45°C
Maximum precipitation	Medium
Icing conditions	Not allowed
Max. take-off weight	21.50 kg
Basic empty weight	15.34 kg
Max. structural payload weight	5.0 kg (ISA conditions, AMSL)
Max. indicated airspeed IAS	70 kts - 129 km/h
Electrical system	3 phase alternator, 28 V @ 300 W
Electromagnetic interference	All avionics/connectors shielded
Back-up battery	LION + BMS
Flight control actuators	5 x contactless
Main rotor type	Fully articulated + friction damping
Tail rotor type	Fully articulated + friction damping
Engine type	2-stroke single cylinder normally aspirated
Engine size	31.8 cc
Engine cooling	Active air cooling
Induction type	Carburettor, normally aspirated
Fuel type	Gasoline 95 + 2 stroke oil /Aspen
Total fuel capacity	5.3 litres
Fuel capacity main tank	5.0 litres
Fuel consumption - 0 kts / hover	1.3 litres/hour (ISA conditions, AMSL)
Fuel consumption - 30 kts	1.1 litres/hour (ISA conditions, AMSL)
Fuel consumption - 60 kts (est.)	1.6 litres/hour (ISA conditions, AMSL)
Maximum endurance	4:18 hours (ISA conditions, AMSL)
Maximum endurance – 100% hover	3:22 hours (ISA conditions, AMSL)
Autopilot type	Failure-redundant INS based, dual CPU
INS sensor type	MEMS
Autopilot modes	hover/waypoint/follow/take-off/landing
Additional sensors	RPM/ENG RPM/GPS/WOW/MAG/FUEL/VOLT
Frequency	900 - 5900 MHz bands, standard 2.3 - 2.5 GHz
Bandwidth maximum	20 MHz, 100 Mb/s +
Antenna type (airborne)	Dipole Vertical 3 dbi (2x)
Radio output maximum	4 W
Communication type	Encrypted dual IP/ethernet
Pilots-view camera	640 x 320, heated anti-fog IP 68
Time between inspections	50 hours / annual
Airframe time between overhauls	200 hours / 4th annual
Engine time between replacements	200 hours / 4th annual

Technical list January 2018