

EC145e



INTRODUCING THE IFR-CAPABLE EC145e

Metro Aviation collaborated with Genesys Aerosystems for an EFIS (Electronic Flight Instrument System) configuration consisting of four (4) IDU-450 displays that can be configured as a Primary Flight Display (PFD) or a Multi-Function Display (MFD), depending on installation. The PFD is a perspective display that provides forward-looking terrain, attitude, altitude, airspeed, vertical speed, direction and Highway-in-the-Sky navigation. The MFD can display a map with waypoints, fixes and airfields (including runways and heliports), terrain, HSI (horizontal situation indicator) or a combination thereof. The aircraft is certified for operation under day or night Instrument Flight Rules (IFR) when installed with the HeliSAS.

The SP/DPIFR system functionality includes:

- HSI and navigation display for VOR, ILS, GPS, etc.
- Moving map
- GPS-SBAS Flight Management System (FMS) including VNAV, LPV, etc. (as listed in RFMS)
- HTAWS
- 3D Synthetic Vision System (SVS)
- Flight path marker
- Highway in the sky

Other configurations include:

- Single Pilot VFR with glass cockpit featuring the Garmin G500H and GTN 650/750 navigation and communication system, including 2-axis HeliSAS autopilot
- Dual Pilot VFR featuring the Genesys Aerosystems 3D Synthetic Vision System EFIS avionics solution

The EC145e has a maximum takeoff weight of 7,903 lbs., the same as the EC145C2 variant, but the useful load is increased by as much as 330 lbs with the VFR configuration and as much as 270 lbs with the IFR configuration.

PASSENGER TRANSPORT		
Configuration	PILOTS	PASSENGERS
Standard Seating - High density seating	1/2	9/8 - UPTO 11
WEIGHT		
Maximum takeoff weight	3,585 kg / 7,902 lbs	
Useful load, baseline aircraft definition	1,810 kg / 3,990 lbs (estimated VFR) ; 1,787 kg / 3,932 lbs (estimated IFR)	
EMS Equipment, incl. a/c	386 kg / 850 lbs	
LE Equipment, incl. a/c	506 kg / 1,116 lbs	
Utility Equipment, incl. a/c	445kg / 981 lbs	
ENGINES (2 TURBOMECA ARRIEL IE2 TURBOSHAFT)		
Maximum 2.5 min power - one engine inoperative (OEI)	574 kW / 770 shp	
PERFORMANCE AT 3,300 KG (7,275 LBS), SL, ISA		
Fast Cruising Speed	250 km/h / 135 kts	
Hover Ceiling IGE	3,840 m / 12,600 ft	
Hover Ceiling OGE	3,45 m / 11,300 ft	
Maximum range with standard tanks	685 km / 370 NM	
Maximum endurance at 65 KIAS	3:40h	
OPERATIONAL LIMITS		
Maximum operating altitude	5,485 m / 18,000 ft PA	
Minimum temperature	-45 ° C / -49 ° F	
Maximum temperature	ISA + 35 ° C / 95 ° F, limited to +50 ° C / 122 ° F	

- Spacious interior with a large unobstructed flat floor cabin providing excellent cockpit visibility for pilots/ crew as well as unrivaled loading capability from the rear and side
- Flexibility in role change including interchangeable optional equipment, such as the rescue hoist, internal long range fuel tank, cargo hook, bambi bucket amongst others
- Fully compliant to the latest crash-worthiness requirements FAR29/CS29 – airframe, landing gear and seats
- High set main rotor system
- Redundant systems – hydraulic, electrical and lubrication for the main transmissions
- Reduced DOC with simplified systems
- All Metro STC's are available