



2018 AGUSTA AW139
SERIAL NUMBER 31825
REGISTRATION TC-HVM



www.AW139.com | U.S. +1 888 337 3439 | AW139@ALTUSAVIATION.COM



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OVERVIEW

- Year of Manufacture: 2018
- Airframe Total Time: 844 Hours
- Landings: 1,789
- Flights above 6,400 Kg: 58.9 hours / 186 Landings
- Honeywell Avionics Protection Place (HAPP) – Exp 9/2023 (Renewable)

ENGINES

- (2) Pratt & Whitney PT6C-67C Turboshafts with EEC
- Left engine: 838 Hours / 1,097 cycles
- Right engine: 838 Hours / 1,097 cycles
- Eagle Service Plan (ESP) – Golden Light

INSTALLED OPTIONAL EQUIPMENT

- Inlet Barrier Filter provision
- Strobe Lights
- Electrically operated step (Left & Right) with boarding lights
- Pilot & Copilot Glass windshields
- Epic Primus Software (Phase 7)
- TCAS II, ADS-B Out, 1090 MHz
- Main Rotor Tracking Signal Connector in Cockpit
- Active Vibration Control System (AVCS) - complete installation
- Pilot / Co-pilot adjustable seats with sheep skin covers
- Enhanced Ground Proximity Warning System (provisions & removable)
- Weather Radar Primus 660 Honeywell
- Auxiliary transversal fuel tanks 132 US gallon (provisions & removable)
- Emergency floats (Provisions Only), switches & control panel (Aerozure Production)
- Increased gross weight 7,000 Kg
- Tail Fin Camera

INSTALLED COCKPIT EQUIPMENT

- Honeywell Radio Altimeter & 2nd radar altimeter RT -300
- Primus 660 Weather Radar (provisions & removable)
- Traffic Collision Avoidance System (TCAS)
- Enhanced Ground Proximity Warning System (EGPWS) (provisions & removable)
- Artex Emergency Locator Transmitter (ELT 406 MHz & 121.5 MHz)
- Penny & Giles Flight Recorder
Penny & Giles Cockpit Control Unit
- Digital Clock
- Magnetic Compass
- 2 x Pedestal mounted Multifunction Control Display Units (MCDU)
- 1 x Flight guidance controller
- 2 x Honeywell GPS modules (WAAS / SBAS - Wide Area Augmentation System/Satellite Based Augmentation System) with Flight Plan Management System (FPMS)
- Pilot & co-pilot digital audio panels with remote Intercom System (ICS) audio port for ground operation
- Pilot & Co-pilot digital clocks
- 1 x Magnetic compass & 1 x Outside air temperature indicator
- 2 x Master Warning Lights (MWL) & 2 x Master Caution Lights (MCL)
- Engine 1 & Engine 2 fire lights
- Baggage compartment smoke detector light
- Cockpit Voice Recorder (CVR) & Flight Data Recorder (FDR) with Underwater Locator Beacon (ULB)
- 2 x Electrical power connection for CVR / FDR

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AVIONICS CONFIGURATION

- 2 x (Pilot & Co-pilot Primary Flight Display) 8" x 10" (external) colour Active Matrix Liquid Crystal Display as part of Honeywell Primus Epic System for visualization of flight and navigation data (Phase 7, hardware 3 or latest version)
- 2 x MFD (Pilot & Co-pilot Multifunction Display) 8" x 10" (external) color Active Matrix Liquid Crystal Display as part of Honeywell Primus Epic System for visualization of flight and navigation data (Phase 7, hardware 3 or latest version)
- 1 x Electronic Standby Instrument System (ESIS) (attitude, airspeed)
- 2 x Attitude & Heading Reference Systems (AHRS)
- 2 x Air Data Modules (ADM)
- 2 x Flux valves
- 2 x Display Controllers (DC)
- 2 x Cursor Control Devices (CCD)
- 1 x Reversion Control Panel (RCP)
- 1 x Display Dimming Control Panel (DCP)
- 1 x Stability Augmentation System (SAS) control panel
- 2 x Remote Instrument Controllers (RIC)
- 2 x Modular Avionic Units (MAU) incorporating the following major subsystems and / or functions:
 - Vehicle Monitoring System (VMS) dual
 - Monitor Warning System (MWS) dual
 - Aural Warning Generator (AWG) single
 - Central Maintenance Computer (CMC) single
 - 4-axis dual Digital Automatic Flight Control System (DAFCS) Basic
 - Provision for CVR/FDR data interface (single)
 - Flight Director System (dual)

AVIONICS CONFIGURATION (continued)

- Pilot & Co-pilot headsets
- Pilot & Co-pilot interphone control (cyclic grip and floor switches)
- Left Modular Radio Cabinet (MRC) with the following modules:
 - 1 x VHF Comm. & 1 x VOR / LOC / GS / MB
- Right Modular Radio Cabinet (MRC) with the following modules:
 - 1 x VHF Comm. / 1 x DME / 1 x ADF
 - 1 x VOR / LOC / GS / MB
 - 1 x Mode S diversity transponder with Extended Squitter (ADS-B out 1090 MHz)
- 2 x Pedestal mounted Multifunction Control Display Units (MCDU)
- 1st Radar Altimeter RT-300 & 2nd Radar Altimeter RT -300
- Emergency Locator Transmitter (ELT 406 MHz & 121.5 MHz)
- 1 x Flight guidance controller
- 2 x Honeywell GPS modules (WAAS / SBAS - Wide Area Augmentation System / Satellite Based Augmentation System) with Flight Plan Management System (FPMS)
- Pilot & co-pilot digital audio panels with remote ICS audio port for ground operation
- Pilot & Co-pilot digital clocks
- 1 x Magnetic compass & 1 x Outside air temperature indicator
- 2 x Master Warning Lights (MWL) & 2 x Master Caution Lights (MCL)
- Engine 1 & Engine 2 fire lights
- Baggage compartment smoke detector light
- 2 x Electrical power connection for CVR / FDR
- Cockpit Voice Recorder (CVR) & Flight Data Recorder (FDR) with Underwater Locator Beacon (ULB)
- Health & Usage Monitoring System (HUMS)

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INTERIOR CONFIGURATION

DELUXE Cabin Interior (FIVE STAR Cabin Interior –VIP 37 Plus) (FAA STC), substantially light and different design than the ones delivered so far, including:

- 3 VVIP / crashworthy armchairs leather covered-forward looking, (with inertial reels & safety belt, sliding inflight direction, reclining backrest)
- 4 crashworthy seat leather covered (with inertial reels & 4 safety belts and under-storage compartment).
- 2 lateral covered armrests cabinets with metal cup holder, ICS control & multipurpose holder installed on the divan seat)
- Coats hooks (Qty 4)
- 2 additional standard crashworthy seats leather covered, including dedicated carpeting
- Headsets Bose ANR type with bluetooth capable (Qty 2)
- Multipurpose Cubby with sliding doors
- Night curtain cabin separator, 50 cm length from the top, bottom side to cover the gaps on the divan seat
- Passenger cabin hinged doors
- Nose landing gear doors
- Customized VIP cabin finishing
- Decoration trim
- Standard passenger carpet in lieu of High thickness passenger carpet
- Environmental Control System with control panel
- Air conditioning
- Passenger Address (PA) system (including loudspeakers & safety belts lights)

INTERIOR CONFIGURATION (continued)

- Intercom System (ICS) in the cabin for all passengers (ICS phone to speak with pilots, no push button to talk)
- Passenger cabin thermo-acoustic double layer tinted windows
- Ripple dampers
- Main Gear Box - Premium grade
- Cyclic and Collective leather gators (same color as cabin interior)
- 2 metal finished cabin vertical handles on doorposts
- Alternate current power outlet (Qty 3; two 115V power outlets in cabin & one 28V power outlet in cockpit)
- Lighter 28V DC outlet in the cockpit
- Customized painting scheme, metallic colors
- Mast Vibration Absorber (MVA)
- VVIP Ultra silent soundproofing (in lieu of VIP soundproofing)
- Customized leather covering for pilot/co-pilot seats 8
- Cockpit upper windows
- Co-pilot hinged window
- Pilot headset hooks (Qty 2)
- Approach plates chart holders with lights for pilot & co-pilot
- 4-axis DAFCS (Digital Automatic Flight Control System) Enhanced with Hover mode (HOV)
- Main battery 44Ah in lieu of 40 Ah
- Auxiliary heavy-duty battery 28 in lieu of 13 Ah)
- GPS 2nd unit (installation)
- Life vest (Qty 11)
- Maritime Protection
- FAA STC # SR03212NY / EASA STC # EASA.R.S.01486

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AIRFRAME

(EASA IFR SINGLE PILOT / FAA IFR)

- Aluminum alloy fuselage
- Acrylic windshields
- Overhead cockpit transparent windows
- Lower cockpit transparent windows
- Cockpit ram air adjustable outlets
- Forced fan ventilation
- Bleed air heater & defroster with air noise suppressions
- 2 x Heated Pitot tubes with 2 x Pitot heat failure warning
- 2 x Heated static intakes
- One cockpit & one passenger cabin fire extinguisher
- 2 x Pilot doors with push-out emergency exit window (with “storm window” on pilot side) (High Visibility Cockpit Doors)
- 2 x Plug-in sliding doors for passenger cabin access with four locking latches
- Passenger doors stop in fully open position
- 6 x cabin push-out emergency exit windows (2 on each passenger cabin door)
- Baggage compartment with two lockable baggage compartment doors (Left & Right)
- Baggage compartment cargo tie-down fittings
- Wheeled retractable tricycle landing gear (two wheels on nose gear & brakes on main landing gear)
- Structural provisions for nose landing gear doors
- Landing gear mooring
- Upper deck mooring provisions
- Hoisting & jacking fittings

AIRFRAME (continued)

- Tail boom & vertical fin
- Horizontal stabilizers with composite “winglets”
- Pilot & co-pilot windshield wipers
- Maintenance steps for access to upper deck on both sides
- Upper deck cowlings (one front forward sliding, 2 x side opening for engine access)
- Steps for cockpit access

ROTORS & CONTROL

- Fully articulated Main Rotor with 5 x composite blades, 5 x elastomeric bearings & 5 x hydraulic dampers (Elastomeric Bearing Model LORD, latest product)
- Rotating Main Rotor flight controls
- Main rotor hub beanie
- 3 x Main dual servo actuators - Improved version
- Fully articulated Tail Rotor with 4 x composite blades, 4 x elastomeric bearings & 4 x elastomeric dampers (Elastomeric Bearing Model LORD, latest product) (New T/R Elastomeric Damper)
- Rotating Tail Rotor flight controls / 1 x dual servo actuator
- Force trim system
- Pilot & Co-Pilot fixed flight controls (cyclic, collective, anti-torque pedals)
- Dual digital 3-axis linear actuators
- Rotor brake
- Provision for main rotor tracking (magnetic pick-up)

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POWER PLANT & FUEL SYSTEM

- 2 x Pratt & Whitney Canada PT6C-67C turbo-shaft engines
- 2 x independent FADEC systems with auto-start and engine control functions for normal, emergency and training operations
- 2 x magnetic chip detectors
- 2 x integrated & independent engine oil coolers
- Separation firewall protection for each engine
- Fire detection system
- Fire extinguisher system (2 bottles)
- Steel engine exhausts & ejectors
- 2 x independent crashworthy fuel cells
- 2 x supply pumps on engines
- 2 x submerged booster pumps in fuel tank
- 2 x fuel filter assemblies
- 2 x engine back-up controls, mechanical & electrical
- 2 x manual engine start & ignition systems

ELECTRICAL SYSTEM

- DC primary power generation: 28 V DC regulated voltage provided by 2 independent 300 A starter generators
- DC external power receptacle
- 2 x nickel-cadmium batteries: 1 x 44 Ah (20-cell) main battery plus 1 x 13 Ah auxiliary battery
- 2 x DC starter generator control units
- 3 x Navigation lights
- Anti-collision light
- 2 x External emergency landing lights on the sponsons
- 2 x Retractable / rotating landing / taxiing lights
- 3 x Baggage compartment lights & smoke sensor

TRANSMISSION DRIVE SYSTEM & HYDRAULIC SYSTEM

- Main transmission with two direct drive engine inputs
- 3 x main transmission chip detectors/debris collectors with burning capability
- 2 x freewheel units
- 4 strut rods for upper deck attachment & one anti-torque plate
- Intermediate gearbox with sight gauge & magnetic drain plug/chip detector
- Tail gearbox with sight gauge & magnetic drain plug/chip detector
- Dual independent, redundant hydraulic systems
- 2 x hydraulic Power Control Modules (PCM)
- 3 x main transmission driven hydraulic mechanical pumps for controls, landing gear & wheel brake actuation
- 1 x electrical pump for control checks on ground (engines off)
- Air conditioning compressor quill

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