



AW119Kx



# AW119Kx

The AW119Kx is the first light single-engine helicopter to meet all IFR standards and offers modern avionics suite and a spacious interior to enable flexibility in role. Operators worldwide benefit from the highest productivity levels among single-engine helicopters, combined with the safety provided by redundancy of main systems, as well as payload and performance at the top of its category.

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Mr Probhjot Commar +91 98106 21801 [prabhjot.commar@uva.world](mailto:prabhjot.commar@uva.world) [vulkaan-helicopters.com](http://vulkaan-helicopters.com)



# Highlights

- Garmin G1000H Integrated Flight Deck system
- AFCS 3-axis duplex SP-711 Honeywell
- Stretcher x1
- Bleed air heater
- Air conditioning
- 188 USgal Fuel System (in lieu of 160 USgal)
- Oxygen bottle (22001) in baggage compartment
- Helicopter Terrain Awareness and Warning System (HTAWS)



**YOM**

**2015**



**TOTAL TIME**

**300 hrs**



**ENGINE X1**

**PT6B-37A**

**AW119Kx**

Mr Probhjot Commar +91 98106 21801 prabhjot.commar@uva.world vulkaan-helicopters.com



# Avionics

## Garmin G1000H Integrated Flight Deck system comprising:

Two GDU-1040 10.4" display units providing a Primary Flight Display (PFD) and a Multifunction Display (MFD) and integrating Helicopter Terrain Awareness and Warning System (HTAWS)

Two GEA-71H Aircraft Interface Unit with integral Central Maintenance Computer (CMC)

Two GSC-46 Signal Conditioners

GRS-77H AHRS

GDC-74H Air Data Computer (ADC)

Two GIA-63H Integrated Avionics Units (IAU)

GTX-33H Mode-S Transponder with Extended Squitter (ES) capability

AC power supply system (2 inverters)

AFCS 3-axis duplex SP-711 Honeywell

# Equipment

Head liner with soundproofing and EMS provisions

Side liners LH and RH with EMS provisions

Aft EMS liners with rails

Stretcher platform provision

Bench panels with rear EMS provisions

EMS electrical system

Electrical outlets (110V/60Hz)

Medical oxygen (gas) system provision (single bottle)

Sliding windows on passenger cabin doors

Cabin loudspeakers

Seats and stretcher covered with leatherette

Aft facing sliding/rotating seat

Foldable fwd facing seats with headrests (Qty 2)

Special rubber floor carpet



# Airframe

Aluminium alloy and bonded panel fuselage

Semi-monocoque aluminium alloy tail boom

New reinforced skid type landing gear

Two hinged jettisonable crew doors (LH & RH)

Two sliding passenger doors (LH & RH), 1.10 m opening, with jettisonable windows Passenger short foot step (LH & RH)

Acrylic windshield and side windows

Overhead and lower cockpit transparent windows

Removable fibreglass tail rotor gearbox fairing

Quick removable tail rotor drive shaft cover

Separate baggage compartment with hinged door

Three jacking points

Removable fairing and cowlings, for complete accessibility to the controls and drive components

Quick opening hinged inspection doors, to allow visual check of engine oil levels and maintenance inspection points

Grounding points

# Rotors & Controls

Titanium main rotor hub, corrosion protected, fully articulated with four composite grips, four elastomeric bearings, four individually interchangeable composite material blades, swept tips, and dampers

Steel tail rotor hub, corrosion protected, semi-rigid delta hinged type, with two composite blades, individually interchangeable

Cyclic and collective controls powered by two hydraulic systems

Hydraulically powered anti-torque system

Adjustable friction devices on cyclic and collective system

Force trim and artificial feel system

Adjustable directional control pedals

Flapping and droop restraint mechanism



# Power Plant and Fuel System

Pratt & Whitney Canada  
PT6B-37A turbo-shaft engine

Engine mounted fuel pump and  
filter assembly

Engine mounted oil pump and  
filter assembly

Engine mounted fuel control  
and governor

Electronic Engine Control (EEC)

Lubrication and cooling system

Engine oil chip detector

Engine mounted fuel heater

Fuel system control panel

3-cell fuel system (605 1-160  
USgal)

Submerged fuel pumps (2 boost  
and 1 transfer pump)

RH refuelling point RH

# Transmission Drive System & Hydraulic System

917 shp for takeoff and 900 shp  
continuous operation main  
transmission

Two-stage transmission

Transmission mounted hydraulic  
pumps (2) with separate  
reservoir

Internal dry sump transmission  
lubrication with pressure and  
scavenge pump and oil filter

Transmission oil chip detectors

Single stage, bevel gear T/R 90°  
gear box including oil level sight  
glass and chip detector

Transmission cooling and  
lubrication system

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# Avionic Package

## VFR

G1000HTM, TAS GTS800 Garmin,  
GDL 69AHXM

b Garmin G1000HTM Integrated  
Flight Deck system comprising:

- Garmin G1000HTM

Two GDU-1040 10.4in display units  
providing a Primary Flight Display  
(PFD) and a Multifunction Display  
(MFD) and integrating:

- Radio tuning controls
- Flight Management System
- Synthetic Vision System
- Helicopter Terrain Awareness  
and Warning System (HTAWS)
- Two GEA-71H Aircraft Interface  
Unit with integral Central  
Maintenance Computer (CMC)
- Two GSC-46 Signal Conditioners

- GRS-77H AHRS GRS-77H
- GDC-74H Air Data Computer  
(ADC) GDC-74H

Two GIA-63H Integrated Avionics  
Units (IAU) comprising:

- COM 1&2, NAV1&2, GPS 1&2
- Aural Alert Generator
- DME tuning interface DME
- GTX-33H Mode-S Transponder  
with Extended Squitter (ES)  
capability
- Digital Audio Control System  
(DACS) COBHAM with two  
cockpit panels
- Magnetic Compass indicator
- L3 Avionics System ESI-2000  
Electronic Standby Indicator
- Engine Hour meter

## Systems Data (on displays)

Inter turbine gas temperature  
indicator (ITT°C)

Engine torque indicator (TQ%)

Compressor speed indicator  
(N1%)

Turbine speed indicator (N2%)

Rotor speed indicator (NR%)

Transmission oil pressure (PSI)  
and temperature (°C) indicator  
(on MFD)

Engine oil pressure (PSI) and  
temperature (°C) indicator  
(on MFD)

Fuel pressure (PSI) (on MFD)  
and fuel quantity (kg) indicator  
(on PFD/MFD)

Two hydraulic pressure system  
indicators (PSI) (on MFD)  
Outside air temperature  
indicator (°C) (on PFD)

DC voltmeter (VDC) (on MFD)

DC ammeter (Amp) (on MFD)



# Avionic Package ---

## Central warning system

Master warning lights

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Master caution lights

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Warning, caution and advisory messages on PFD display

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Aural alerts from IAU 1 & 2

## Interior Arrangement

Pilot and co-pilot seats, fore and aft adjustable, with lap belts and headrests

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Aluminium alloy honeycomb reinforced floor with anti-skid finishing

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Ventilation ram air inlets

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Anti reflection instrument panel

## Miscellaneous / Ground Equipment

Air intake / exhaust covers

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Ground tools kit (including tow bar, ground wheels, lifting tool)

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Pitot tubes covers

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Rotorcraft Flight Manual (RFM) and technical publications

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Tie-down fitting (main rotor retention straps)

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# EMS Cabin Interior

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**Passenger Cabin interior can be setup upon request and cost**

**Cabin and Cockpit configuration - Utility interior (Rigid liners)**

Utility Convertible Interior

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Seats covered with leatherette or fabric

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Soundproofing

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Painted Liner

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3 fwd facing seats (aft bench) with individually foldable back panels

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3-point shoulder harness with inertial reels and black coloured safety belts for all passenger seats

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Reading lights, advisory lights

**Avionics Equipment**

ELT C406-N HM Artex

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**Utility Equipment**

Air conditioning

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188 USgal Fuel System 188

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Floor rails

**Finishing - Painting**

Customized painting scheme,

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**Loose Equipment**

Additional aft facing sliding/rotating seat Qty 1

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Contact Universal Vulkaan Aviaiton to discuss your large-cabin executive helicopter needs.

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